नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Ltd.
(A Govt. of India Enterprise)
A Wholly Owned subsidiary of NTPC Ltd.
Second Floor, Block-C, Centrum Plaza Mall
Sultanpur, M.G. Road, New Delhi-110030
Email: corpaffairs@neepco.co.in

कॉर्पोरेट अफेयर्स | Corporate Affairs

सं-/No. CA/37/351

दिनांक/Dated 29.10.2024

सेवा में/To,

सचिव/The Secretary

केंद्रीय विद्युत विनियामक आयोग/Central Electricity Regulatory Commission

तीसरी एवं चौथी मंजिल/3rd & 4th Floor,

चन्दलोक भवन/Chanderlok Building,

36, जनपथ, नई दिल्ली-110001/36, Janpath, New Delhi-110001

विषय/ Sub: Petition under section 62 and 79 (1) of the Electricity Act,2003 read with related provisions of the Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations,2023 and with relevant Regulations under Chapter-3 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for (a)Carrying out **truing up exercise** for the period 2019-24 with respect to the capital expenditure including additional capital expenditure incurred during the period of 2019-24 in respect of Assam Gas Based Power Station (291 MW) (hereinafter referred to as **AGBPS**) of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong and (b) Determination of Tariff for the 01.04.2024 to 31.03.2029 in respect of AGBPS

महोदय /Dear Sir,

This has reference to the above, Please find enclosed Petitions in respect of Assam Gas Based Power Station (291 MW) (hereinafter reffered to as AGBPS) of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong for truing up exercise for the period 2019-24 and Determination of Tariff for the 01.04.2024 to 31.03.2029 in respect of AGBPS

This is for kind consideration of the Honourable Commission.

धन्यवाद/Thanking you,

भवदीया/Yours faithfully,

संलग्नक: यथोक्त/Enclo: As above

(अजय डे)
कार्यकारी निदेशक (वाणिज्यिक)
नीपको लिमिटेड, नई दिल्ली-66

ज्ञापन सं-/CA/37/352-360

दिनांक/Dated: 29.10.2024

1. अध्यक्ष, असम पावर डिस्ट्रीब्यूशन कंपनी लिमिटेड, बिजली भवन, पलटन बाजार, गुवाहाटी -781001

1. The Chairman, Assam Power Distribution Company Ltd., Bijulee Bhawan, Paltan Bazar, Guwahati- 781001.

2. मुख्य अभियन्ता, विद्युत और बिजली विभाग, कवलपीठ, नया सचिवालय परिसर, आइजोल - 796005, मिजोरम

2. Chief Engineer, Power & Electricity Deptt.,Kawlpetha, New Secretariat Complex, Aizawl – 796005, Mizoram.

3. मुख्य अभियंता (कॉम) सह सीईआई, विद्युत विभाग, अरुणाचल प्रदेश सरकार, विद्युत भवन, 'ओ' पॉइंट तिनियाली, ईटानगर - 791111

3. Chief Engineer(Com)cum CEI, Department of Power, Government of Arunachal Pradesh, Bidyut Bhawan,'O' Point Tiniali,Itanagar - 791111

4. अध्यक्ष, मेघालय पावर डिस्ट्रीब्यूशन कॉर्पोरेशन लिमिटेड, शॉर्ट राउंड रोड, लुमजिंगशई, शिलांग - 793001

4. The Chairman, Meghalaya Power Distribution Corporation Ltd., Short Round Road, Lumjingshai, Shillong- 793001

5. अपर महाप्रबंधक (सी एण्ड एसओ), त्रिपुरा स्टेट इलेक्ट्रिसिटी कॉर्पोरेशन लिमिटेड, "विद्युत भवन", बनमालीपुर, अगरतला - 799001

5. Addl. General Manager (C & SO), Tripura State Electricity Corporation Ltd, " Bidyut Bhawan", Banamalipur, Agartala- 799001

6. मुख्य अभियन्ता, बिजली विभाग, नागालैंड सरकार, बिजली घर, कोहिमा - 797001

6.Chief Engineer, Department of Power,Government of Nagaland,Electricity House, Kohima-797001

7. मुख्य अभियंता, मणिपुर राज्य विद्युत वितरण निगम लिमिटेड, तीसरी मंजिल, नया निदेशालय भवन, दूसरे एमआर गेट के पास, इंफाल-दीमापुर रोड, इंफाल, मणिपुर - 795001

7 Chief Engineer, Manipur State Power Distribution Corporation Ltd., 3rd Floor, New Directorate Building, Near 2nd M.R Gate, Imphal- Dimapur Road, Imphal, Manipur - 795001

8. सदस्य सचिव, नॉर्थ ईस्टर्न रीजनल पावर कमिटी, एनईआरपीसी कॉम्प्लैक्स, डोंग परमाव, लापलांग, शिलांग -793006, मेघालय

8. Member Secretary, North Eastern Regional Power Committee, NERPC Complex, Dong Parmaw, Lapalang, Shillong-793006, Meghalaya.

9. महाप्रबंधक, नॉर्थ ईस्टर्न रीजनल लोड डिस्पैच सेंटर, डोंगटेह, लोअर नोंग्राह, लापलांग, शिलांग -793006, मेघालय

9. General Manager, North Eastern Regional Load Despatch Centre, Dongtieh, Lower Nongrah, Lapalang, Shillong-793006, Meghalaya.

कार्यकारी निदेशक वाणिज्यिक
नीपको लिमिटेड, नई दिल्ली-66

सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

Certificate No.	:	IN-DL97458603708953V
Certificate Issued Date	:	17-Nov-2023 11:50 AM
Account Reference	:	IMPACC (IV)/ dl754903/ DELHI/ DL-DLH
Unique Doc. Reference	:	SUBIN-DLDL75490359900526857212V
Purchased by	:	NEEPCO LIMITED
Description of Document	:	Article 4 Affidavit
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	NEEPCO LIMITED
Second Party	:	SUBMISSIONS OF DATA TO CERC
Stamp Duty Paid By	:	NEEPCO LIMITED
Stamp Duty Amount(Rs.)	:	10 (Ten only)

NOTARY PUBLIC
RAJKUMAR
(ADVOCATE)
Area: DELHI
Regn. No. 26566
Expiry NOV 2027
GOVT. OF INDIA

Please write or type below this line

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION, NEW DELHI

IN THE MATTER OF:

Petition under section 62 and 79 (1) of the Electricity Act,2003 read with related provisions of the Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations,2023 and with relevant Regulations under Chapter-3 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for (a)Carrying out **truing up exercise** for the period 2019-24 with respect to the capital expenditure including additional capital expenditure incurred during the period of 2019-24 in respect of Assam Gas Based Power Station (291 MW) (hereinafter referred to as **AGBPS**) of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong and (b) Determination of Tariff for the 01.04.2024 to 31.03.2029 in respect of AGBPS

Purchaser Name
1. The authenticity of this certificate should be verified at www.shcilestamp.com or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

AND

IN THE MATTER OF:

North Eastern Electric Power Corporation Limited
Corporate Office: Brookland Compound
Lower New Colony, Shillong 793 003
Meghalaya

--- PETITIONER

VERSUS

Assam Power Distribution Company Ltd
(Erstwhile Assam State Electricity Board)
"Bijulee Bhawan", Paltanbazar, Guwahati 781001 and 08 (eight) others

RESPONDENTS

Affidavit verifying the submission of NEEPCO.

I Debjani Dey, Executive Director (Commercial) daughter of Late N. C. Halder, aged about 59 years presently residing at Laban, Shillong, Meghalaya- 793 004, do solemnly affirm and state as follows:

1. That I am Executive Director (Commercial) in the Petitioner - North Eastern Electric Power Corporation Limited and am well conversant with the facts of the case and am competent to swear the present affidavit.

2. That I have read the contents of the accompanying submission filed by North Eastern Electric Power Corporation Limited and have understood the contents of the same.

3. That the contents of the accompanying submission are based on information available with the petitioner in the normal course of business and believed by the deponent to be true.

4. That the annexures to the submissions are true and correct copies of their original

Deponent

NOTARY PUBLIC
RAJKUMAR
(ADVOCATE)
Area: DELHI
Regn. No. 6814
Expiry NOV.2024
GOVT. OF INDIA

VERIFICATION:

Verified at New Delhi on 29.10.2024, that the contents of above affidavit are true to the best of my knowledge, no part of it is false and nothing material has been concealed therefrom.

ATTESTED

Notary Public, Delhi

01 NOV 2024

BEFORE THE HONB'LE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION NO: /2024

IN THE MATTER OF:

Petition under section 62 and 79 (1) of the Electricity Act,2003 read with related provisions of the Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations,2023 and with relevant Regulations under Chapter-3 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for:

(a) Carrying out **truing up exercise** for the period 2019-24 with respect to the capital expenditure including additional capital expenditure incurred during the period of 2019-24 in respect of Assam Gas Based Power Station (291 MW) (hereinafter referred to as **AGBPS**) of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong.

And

(b) Determination of Tariff for the period 01.04.2024 to 31.03.2029 in respect of Assam Gas Based Power Station (291 MW)

AND IN THE MATTER OF:

North Eastern Electric Power Corporation Limited
Corporate Office: Brookland Compound Lower New Colony,
Shillong 793 003 Meghalaya ---------
PETITIONER

VERSUS

Assam Power Distribution Company Ltd (Erstwhile Assam State Electricity Board) "Bijulee Bhawan", Paltanbazar Guwahati - 781 001 and 8 (eight) others

--------- **RESPONDENTS**

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3	Summary (Tariff form) of revised Annual Fixed Charges for the period of 2019-24 with respect to the actual capital expenditure including additional capital expenditure incurred during the period of 2019-24 and related forms there-to **Annexure -A**	
4	Tariff Order for the period of 2019-24 as approved by the CERC vide order dated 21st Dec 2021 – **Annexure B (order copy enclosed)**	
5	Impact analysis – AFC as per the revised Petition Vs. AFC approved by the CERC with applicable MAT/Corporate Tax- **Annexure C**	
6	All Audited statements related to the Tariff Forms for the period of 2019-24 **Annexure D**	
7	Declaration on "Funding of Addl. Capital Expenditure" – **Annexure E**	

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

THROUGH

(Debjani Dey)
ED (Commercial), NEEPCO
Place: Delhi
Dated:

BEFORE THE HONB'LE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO: /2024

IN THE MATTER OF:

Petition under section 62 and 79 (1) of the Electricity Act,2003 read with related provisions of the Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations,2023 and with relevant Regulations under Chapter-3 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for:

(a) Carrying out **truing up exercise** for the period 2019-24 with respect to the capital expenditure including additional capital expenditure incurred during the period of 2019-24 in respect of Assam Gas Based Power Station (291 MW) (hereinafter referred to as **AGBPS**) of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong.

AND

(b) Determination of Tariff for the period 01.04.2024 to 31.03.2029 in respect of Assam Gas Based Power Station (291 MW)

AND IN THE MATTER OF:

North Eastern Electric Power Corporation Limited
Corporate Office: Brookland Compound
Lower New Colony, Shillong 793 003
Meghalaya ---------- **PETITIONER**

VERSUS

RESPONDENTS:

1. Chairman
   Assam Power Distribution Company Ltd
   "Bijulee Bhawan", Paltanbazar
   Guwahati 781 001, Assam.

2. Chairman & Managing Director,
   Meghalaya Power Distribution Corporation Ltd
   Meter Factory area, Short Round Road,
   Integrated Office Complex,
   Shillong -793001, Meghalaya.

3. Addl. General Manager, Commercial & System Operation,
   Tripura State Electricity Corporation Ltd.
   Bidyut Bhavan, North Banamalipur,
   Agartala -799 001, Tripura.

4. Engineer In Chief
   Power & Electricity Department,
   Government of Mizoram,
   New Secretariat Complex, Kawlphetha,
   Aizawl – 796001, Mizoram.

5. Managing Director
   Manipur State Power Distribution Co. Ltd
   Electrical Complex, Khwai Bazar,
   Keishampat , Imphal-795001, Manipur.

6. Chief Engineer (Power),
   Department of Power, Vidyut Bhawan,
   Government of Arunachal Pradesh,
   Itanagar-791111, Arunachal Pradesh.

7. Chief Engineer (Power),
   Department of Power,
   Government of Nagaland,
   Kohima -797001, Nagaland.

8. Member Secretary
   North Eastern Regional Power Committee,
   NERPC Complex, Dong Parmaw
   Lapalang, Shillong-793006,
   Meghalaya.

9. General Manager,
   North Eastern Regional Load Despatch Centre
   Dongtieh, Lower Nongrah,
   Lapalang, Shillong -793006,
   Meghalaya.

IT IS RESPECTFULLY SUBMITTED BY THE PETITIONER:

(a) TRUING UP EXERCISE FOR THE PERIOD 2019-24

IN THE MATTER OF:

Carrying out **TRUING UP EXERCISE** for the period 2019-24 with respect to the capital expenditure including additional capital expenditure incurred during the period of 2019-24 in respect of Assam Gas Based Power Station (291 MW) (hereinafter referred to as **AGBPS**) of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong.

1. The **North Eastern Electric Power Corporation Limited** (hereinafter referred to as **NEEPCO),** a Government of India Undertaking established under Companies Act, 1956 came into existence on 2nd April, 1976 with its Headquarter at Shillong, Meghalaya.

2. The Petitioner is having power stations/projects at different states/locations of the North Eastern Region of the country. The Assam Gas Based Power Station (hereinafter referred to as **AGBPS**) is one of such generating stations located at Bokuloni, Distt. Dibrugarh, Assam" having an installed capacity of 291 MW.

3. Assam Gas Based Power Station (**AGBPS**) is a Combined Cycle Power generating station and comprises of six Gas Turbines each of 33.5 MW capacity and three Steam Turbine each of 30 MW capacity. The exhaust of each Gas Turbine is fed into a Waste Heat Recovery Boiler. The steam from two such boilers is used to run one Steam Turbine Generator set. Thus, there are three Combined Cycle modules. The power plant uses natural gas as its fuel and the natural gas sourced from the oil fields of Assam is received at a pressure of about 5.5 kg/cm2 and is fed to a Gas Booster station to increase the pressure to about 21 kg/cm2 before being fed to the gas stations. The date of commercial operation of the units of the generation station with corresponding capacities are as follows:

Unit No.	Date of Commercial Operation	Unit Capacity (MW)
GT- 1	1.5.1995	33.5
GT- 2	1.5.1995	33.5
GT - 3	1.7.1995	33.5
GT - 4	1.8.1995	33.5
GT- 5	1.4.1997	33.5
GT- 6	1.4.1997	33.5
ST-I	1.4.1999	30
ST-II	1.4.1999	30
ST-III	1.4.1999	30
Generating	**1.4.1999**	**291**

4. It is submitted that the electricity generated from **AGBPS** is being supplied to the respondents from Sl.No.1 to Sl.No.7 mentioned herein above.

5. The Hon'ble Commission has determined the tariff of **AGBPS** for the period 01.04.2019 to 31.03.2024 and approved the Annual Fixed Charges (AFC) for the tariff period 2019-24 vide its order dated 27.01.2022 in Petition No. 280/GT/2020 in accordance with the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019.

6. **Capital Cost:** The capital cost as on 31.03.2019 admitted for the purpose of tariff by the Commission in the above order was Rs. 154570.93 lakh vide the Hon'ble Commission's order dated 21/12/2021 in Petition No. 298/GT/2019.

7. **Additional Capitalization and De-capitalization:** As per relevant regulations under Chapter-7 of CERC Tariff Regulations 2019 (Computation of additional capital expenditure) to be allowed by the Commission in the Tariff.

8. The petitioner has capitalized various expenditures incurred during the FYs 2019-24 in the books of **AGBPS**. Accordingly, the Petitioner have proposed to revise the Annual Fixed Charges for the Power Station for the period of 2019-24 showing impact thereof during the said period through this petition for the purpose of carrying out truing up exercise by the Hon'ble Commission.

9. The application is made before the Hon'ble Commission for revision of tariff for the **AGBPS** in terms of the CERC (Terms and Conditions of Tariff) Regulations, 2019 clause 13 for the purpose of truing up based on additional capital expenditure incurred during the period of 2019-24.

   (i) The Additional capitalization and De-capitalization approved during the period 2019-24 as per Order dtd 21/12/2021 in Petition No. 298/GT/2019.
   (ii) However, the additional capitalization claimed during the period 2019-24 has been worked out as detailed in Annexure-A.
   (iii) The aforesaid additional capitalization to be considered for tariff purpose after adjustment of de-capitalization.

10. The revised Annual Fixed Charges (AFC) for the Power Station for the period of 2019-24 have been calculated & furnished (Annexure-A) duly considering the admissible additional capital expenditure actually incurred during 2019-24 for the said purpose. Further, in terms of Regulation 31 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019, the Return on Equity for each financial year has been "Grossed up" with the applicable effective tax rates for the years 2019-24.

11. The impact on AFC due to the net capitalization during 2019-24 in accordance with the provisions of above Regulations have been worked out. The detailed working of this impact is given in the Annexure-A.

12. The impact on AFC due to the capitalization is being claimed after excluding the amount incurred on minor items/ expenditures of O&M nature/spares etc., which are not

allowable as additional capitalization for Tariff purpose as per provisions of above Tariff Regulation, 2019.

13. The add cap claimed relates to certain works which were necessarily undertaken for efficient operation of the generating station or were part of the original scope of work. The capital expenditure on this account and justification for carrying out these works has been included in the claim.

14. Financial data along with the detail reasons/ justifications in respect of additions/ deletions in capital assets justifying its admissibility during the years 2019-24 have been attached to this petition as Annexure –A.

15. There are certain expenditures of capital nature, which have been allowed by the Hon'ble Commission while determining AFC for **AGBPS** for the period of 2019-24 vide its order order dated 21/12/2021 in Petition No. 298/GT/2019, but could not be completed by the petitioner within the stipulated period of 31.03.2024 due to various practical constraints. It is humble submission of NEEPCO before the Hon'ble Commission for allowing to carrying on the remaining works relating to the aforesaid allowed expenditures during the subsequent years based on the application submitted before the CERC for the control period 2019-24.

16. **O&M expenses:** The actual O&M Cost incurred year wise during 2019-24 is shown in the enclosed Annexure -A.

17. **Capital Spares:** Paragraph 90 of the tariff order dated 21/12/2021 in Petition No. 298/GT/2019 directs the petitioner to furnish the actual year wise capital spares consumed at the time of truing-up of tariff. The details as sought for through this direction are shown in Annexure -A. Year-wise capital spares actually consumed has been audited and Annexed with all supporting documents e.g. MRN/MIN.

18. **Life Extension beyond useful life:** AGBPS proposed for Life Extension beyond useful life in petition No. 162/MP/2024. The Gas Turbines Unit # 1-4 were commissioned in the year 1995 and has almost completed 24 years of operation, the Gas Turbines Unit # 5-6 were commissioned in the year 1997 and has completed 22 years of operation and STG Unit # 1-3 were commissioned in the year 1999 and has completed 20 years of operations as on 01.04.2019. The COD of the plant is 01/04/1999. its useful life is already completed in 2024. Considering the life span of a Gas Based power plant of 25 years, deterioration of plant components due to ageing has taken place. As per recommendation of OEM Mitsubishi Corporation, Japan, in MHI (Mitsubishi Heavy Industries) make Gas turbines, Compressor Rotor Refurbishment (CRR) of Compressor Rotor along with Disc replacement & Comprehensive Rotor Inspection (CRI) of Gas Turbine Rotor should be carried out at around 1,00,000 EOH operation to clean & verify each part of the rotor. Accordingly, CRR & CRI Gas Turbines along with procurement of a new GT Rotor were done periodically. Due to aging, the cracks and abrasion were observed in Turbine Blade Ring, Torque Tube covers and Turbine Exhaust Casing. To rectify these, replacement of the Blade Ring, Torque Tube covers and Turbine Exhaust Casing of all the units one by one is required as

per the recommendations of OEM. Over the 25 years of time, many technologies which were in use has been obsolete and required replacement. All these factors taken together necessitated capital expenditure for Life Extension (LE) of the plant in phase manners basis. Some of the capital expenditure have already been allowed by Hon'ble Commission and carried out by the Petitioner. In this context, it is humble submission of the petitioner before the Hon'ble Commission for allowing to complete remaining works relating to the aforesaid work during the subsequent years.

19. **Water Charge:** In compliance of directions vide paragraph 85 & 86 of the tariff order dated 21/12/2021 in Petition No. 298/GT/2019, the Petitioner submits that no water charge has been paid by it during this period.

20. **Auxiliary Energy Consumption:** Paragraph 49 under Chapter 12 of Tariff Regulation 2019 allows Auxiliary Energy Consumption of 2.75% for AGBPS (combined cycle).

21. **Station Heat Rate:** Paragraph 49 under Chapter 12 of Tariff Regulation 2019 allows Station Heat Rate of 2600 kCal/kWh for Combined cycle and 3578 kCal/kWh for Open Cycle against AGBPS.

22. **Security expenses:** As per paragraph no. 35 of Tariff Regulation 2019, Security Expenses for thermal generating stations are allowed separately. The security expenses at actual claimed along with auditor certificates during the period of 2019-24 amounting to total Rs. 1923.1 lakh is detailed in Annexure-A has bene submitted by the petitioner for truing up. Year-wise security expenses actually incurred has been Annexed with supporting documents.

23. Regulation 56 of the Tariff Regulation 2019 entitles **Recovery of Statutory Charges** during the period as detailed in Annexure-A.

In accordance with the provisions of Tariff Regulations, 2019 as above, the petitioner is filing the present petition for revision of the AFC for the **AGBPS** for the period of 2019-24.

The details of documents annexed to this petition are given in the Index.

PRAYER

The petitioner, therefore, most humbly prays that the Hon'ble Commission may kindly be pleased to:

i. Approve the Revised Annual Fixed Charges in respect of **AGBPS**, after considering the impact of net capitalization done during 2019-24 as per the details given in Annexure-A to this Petition.
ii. Allow recovery of publication expenses from the beneficiaries incurred with regards to this petition.

iii. Allow recovery from the beneficiaries any such tax, cess levied in NEEPCO in relation to generation and supply/distribution of electricity.

iv. Pass any other order in this regard as the Hon'ble Commission may find appropriate in the circumstances pleaded above.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

THROUGH

(Debjani Dey)
ED (Commercial), NEEPCO
Place: Delhi
Dated: 29.10.2024

IT IS RESPECTFULLY SUBMITTED BY THE PETITIONER:

(b) DETERMINATION OF TARIFF FOR THE PERIOD 01.04.2024 TO 31.03.2029

IN THE MATTER OF:

Petition under section 62 and 79 (1) of the Electricity Act,2003 read with related provisions of the Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations,2023 and with relevant Regulations under Chapter-3 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for determination of tariff for the period 01.04.2024 to 31.03.2029 in respect of Assam Gas Based Power Station (291 MW) (hereinafter referred to as **AGBPS**) of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong:

AND IN THE MATTER OF:

North Eastern Electric Power Corporation Limited
Corporate Office: Brookland Compound Lower New Colony,
Shillong 793 003 Meghalaya ---------- **PETITIONER**

VERSUS

Assam Power Distribution Company Ltd
"Bijulee Bhawan", Paltanbazar
Guwahati - 781 001
and 8 (eight) others ---------- **RESPONDENTS**

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4	AGBPS proposed for Life Extension beyond useful life in petition No. 162/MP/2024 which may kindly be referred.	
5	Filling fees letter along with Form-1: **Annexure – G&H**	
6	Correspondences for RLE: **Annexure-I**	

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

THROUGH

(Debjani Dey)
ED (Commercial), NEEPCO
Place: Delhi
Dated: 29.10.2024

BEFORE THE HONB'LE CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

PETITION NO: /2024

IN THE MATTER OF:

Petition under section 62 and 79 (1) of the Electricity Act,2003 read with related provisions of the Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations,2023 and with relevant Regulations under Chapter-3 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for **determination of tariff for the period 01.04.2024 to 31.03.2029** in respect of Assam Gas Based Power Station (291 MW) (hereinafter referred to as **AGBPS**) of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong:

AND IN THE MATTER OF:

North Eastern Electric Power Corporation Limited
Corporate Office: Brookland Compound
Lower New Colony, Shillong 793 003
Meghalaya ---------- **PETITIONER**

VERSUS

RESPONDENTS:

1. Chairman
   Assam Power Distribution Company Ltd
   "Bijulee Bhawan", Paltanbazar
   Guwahati 781 001, Assam.

2. Chairman & Managing Director,
   Meghalaya Power Distribution Corporation Ltd
   Meter Factory area, Short Round Road,
   Integrated Office Complex,
   Shillong -793001, Meghalaya.

3. Addl. General Manager, Commercial & System Operation,
   Tripura State Electricity Corporation Ltd.
   Bidyut Bhavan, North Banamalipur,

Agartala -799 001, Tripura.

4. Engineer in Chief
   Power & Electricity Department,
   Government of Mizoram,
   New Secretariat Complex, Kawlphetha,
   Aizawl – 796001, Mizoram.

5. Managing Director
   Manipur State Power Distribution Co. Ltd
   Electrical Complex, Khwai Bazar,
   Keishampat , Imphal-795001, Manipur.

6. Chief Engineer (Power),
   Department of Power, Vidyut Bhawan,
   Government of Arunachal Pradesh,
   Itanagar-791111, Arunachal Pradesh.

7. Chief Engineer (Power),
   Department of Power,
   Government of Nagaland,
   Kohima -797001, Nagaland.

8. Member Secretary
   North Eastern Regional Power Committee,
   NERPC Complex, Dong Parmaw
   Lapalang, Shillong-793006,
   Meghalaya.

9. Executive Director,
   North Eastern Regional Load Despatch Centre
   Dongtieh, Lower Nongrah,
   Lapalang, Shillong -793006,
   Meghalaya.

It is respectfully submitted by the petitioner: -

1. The **North Eastern Electric Power Corporation Limited** (hereinafter referred to as **NEEPCO),** a Government of India Enterprise established under Companies Act, 1956 came into existence on 2nd April, 1976 with its Headquarter at Shillong, Meghalaya.

2. The Petitioner owns power stations/projects at different states/locations of the North Eastern Region of the country. The **Assam Gas Based Power Station (hereinafter referred to as AGBPS) is one of such generating stations located at Bokuloni, Distt. Dibrugarh, Assam having an installed capacity of 291 MW.**

3. Assam Gas Based Power Station (**AGBPS**) is a Combined Cycle Power generating station and comprises of six Gas Turbines each of 33.5 MW capacity and three Steam Turbine each of 30 MW capacity. The exhaust of each Gas Turbine is fed into a Waste Heat Recovery Boiler. The steam from two such boilers is used to run one Steam Turbine Generator set. Thus, there are three Combined Cycle modules. The power plant uses natural gas as its fuel and the natural gas sourced from the oil fields of Assam is received at a pressure of about 5.5 kg/cm2 and is fed to a Gas Booster station to increase the pressure to about 21 kg/cm2 before being fed to the gas stations. The date of commercial operation of the units of the generation station with corresponding capacities are as follows:

Unit No.	Date of Commercial Operation	Unit Capacity (MW)
GT- 1	1.5.1995	33.5
GT- 2	1.5.1995	33.5
GT - 3	1.7.1995	33.5
GT - 4	1.8.1995	33.5
GT- 5	1.4.1997	33.5
GT- 6	1.4.1997	33.5
ST-I	1.4.1999	30
ST-II	1.4.1999	30
ST-III	1.4.1999	30
Generating	**1.4.1999**	**291**

4. It is submitted that the electricity generated from **AGBPS** is being supplied to the respondents from Sl.No.1 to Sl.No.7 mentioned herein above.

5. The Hon'ble Commission has determined the tariff of **AGBPS** for the period 01.04.2019 to 31.03.2024 and approved the Annual Fixed Charges (AFC) for the tariff period 2019-24 vide its order dated 27.01.2022 in Petition No. 280/GT/2020 in accordance with the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019.

6. **Capital Cost:** The capital cost as on 31.03.2019 admitted for the purpose of tariff by the Commission in the above order was Rs. 154570.93 lakh vide the Hon'ble Commission's order dated 21.12.2021 in petition No. 298/GT/2019.

7. The Petitioner has submitted final truing up Petition for **AGBPS** for revision of Annual Fixed Charges (AFC) for the period of 01.04.2019-to 31.03.2024 on account of actual capital expenditure incurred during the said period.

8. The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 (hereinafter referred to as Tariff Regulations, 2024), which have come into force with effect from 01.04.2024, specifying the terms & conditions and methodology for determination of tariff for a period of 05 (five) years from 01.04.2024 to 31.03.2029. The Petitioner is filing the present petition for

determination of tariff for **AGBPS** for the period of 01.04.2024 to 31.03.2029 as per the said Tariff Regulations, 2024.

9. Regulation 9(2) of the Tariff Regulations 2024 states about application for determination of tariff for the period 1st April 2024 to 31st March 2029, which is extracted as below:

"(2) In case of an existing generating station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 30.11.2024 , based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2024 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the respective years of the tariff period 2024-29 along with the true up petition for the period 2019-24 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2019."

10. The Annual Fixed Cost (AFC)for **AGBPS** for the period of 2024-29 have been worked out in terms of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 as under (Part – II, Form -1):

₹ in lakh

Financial year	2024-25	2025-26	2026-27	2027-28	2028-29
AFC	31,560.13	33,501.12	34,353.56	36,694.40	38,339.72

11. The above AFC is exclusive of any taxes, duties, cess etc., if any, imposed/levied by the appropriate authorities. Any such tax, cess etc. levied on NEEPCO in relation to generation and supply/distribution of electricity and payable accordingly shall be recoverable from the beneficiaries in proportion to their Annual Capacity Charges.

12. Details of the projected Additional Capital Expenditure during the period 2024-29 claimed under the relevant clauses of the Tariff Regulations, 2024 are detailed in the attached Form 9 (A) of Tariff Form enclosed as Annexure-F.

13. **Depreciation**: Depreciation for the purpose of tariff has been calculated in accordance with paragraph 29 to 31 of the Hon'ble Commission's order dated 26.10.2023 in Petition No. 246/GT/2020.

14. **Security expenses**: In terms of Tariff Regulation-2024, Clauses 34 and 36 of Chapter-8 (Computation of Annual Fixed Cost), the Petitioner humbly submits the projected/estimated security expenses year wise for deployment of security as follows for acceptance of the Hon'ble Commission:

FINANCIAL YEAR	AMOUNT (in Rs. Lakh)
2024-25	495.08
2025-26	495.08
2026-27	495.08

2027-28	495.08
2028-29	495.08

15. **Capital Spares:** In terms of Tariff Regulation-2024, Clauses 36 of Chapter-8 (Computation of Annual Fixed Cost), the Petitioner humbly submits the projected requirement of Capital Spares year wise as detailed in Form 17 of tariff form for acceptance by the Hon'ble Commission. The same have also been included in the Form 9 (A) of Tariff Form enclosed as Annexure-F.

16. **Heat Rate**: Paragraph 49 under Chapter 12 of Tariff Regulation 2019 allows Station Heat Rate of 2600 kCal/kWh for Combined cycle and 3578 kCal/kWh for Open Cycle against AGBPS.

17. **Auxiliary Energy Consumption:** Paragraph 49 under Chapter 12 of Tariff Regulation 2019 allows Auxiliary Energy Consumption of 2.75% for AGBPS (combined cycle).

18. **Life Extension beyond useful life:** AGBPS proposed for Life Extension beyond useful life in petition No. 162/MP/2024. It is humble submission of NEEPCO before the Hon'ble Commission for allowing to carrying on the remaining works relating to the aforesaid work during the subsequent years under 2024-29 excluding the work that has already been completed during the control period 2019-24. The Ministry of Power, GOI, has advised that as the station is of 25 plus years, have their capex recovered, fully depreciated, debt free, Fuel Supply Agreement (FSAs) in place, and well-maintained, power at competitive tariffs can be made available to the beneficiaries from these stations. Further, in support of the work of Life extension, all the correspondences may kindly be seen at **Annexure-I**.

The reason for the life extension of the Power Station:

- The plant is performing satisfactorily till date and serving all the beneficiaries of the North Eastern Region since last 25 years and still continuing the same. Further, the Plant has been in operation with the average generation by the power station in the last 15 years being 1709.45 MU per year.
- Life Extension of the power Station is a more efficient alternative to the construction of a new thermal (coal or gas) based plant in as much as it provides reliable, and environment friendly electric power at economical rates to the consumers of the North Eastern Region. Unlike in the case of a coal/lignite-based power plant, there is no requirement to install a Flue Gas Desulphurization ('**FGD**') mechanism in a Combined Cycle Generating Station such as the Project, and that would lead to significant savings in so far as the capital cost is concerned.
- Further, vide letter no. MoP (RCM Division) letter No: F. No. 2312312020-R&R/RCM dated 20th April 2023 (copy enclosed under **Annexure-I**) addressed to all ACS/Principal Secretary/Secretary (Energy/Power) of all the States/UTs, CMDs/MDs of GENCOs with reference to Scheme for Pooling of Tariff of those plants whose PPAs have expired where it was clearly mentioned the importance of maintaining Gas Based Power

station. It was mentioned in the letter that the available Gas based capacity is required to be kept operational to meet the flexibility requirement and for peaking support at least during the crisis period. In the letter it was also mentioned that the trend of exiting of PPAs of costlier Gas Based Stations and retaining PPAs of cheaper plants may be detrimental to the resource adequacy in the power system. In the same letter it was also mentioned that *"Gas stations are important to grid operation as they are capable of fast ramping operations and best suited for flexing. CPSU gas stations are being frequently utilized in providing ancillary services for reliable grid operation. The selective approach adopted by the procurers, who are exiting from PPAs, may lead to the shutdown of significant thermal capacities especially the Gas based capacities, which would be detrimental to the power sector."*

- Oil India Limited (**'OIL'**) confirms to the Petitioner that, based on the existing reserve estimates, Natural Gas shall be available for supply to the Petitioner at the rate of 1.4 MMSCMD for the next 15 years (Copy attached as Annexure-I)
- All the OEM's, confirm the Petitioner that the Life Extension ('LE') of the Power station by another 15 years is possible (copy enclosed as Annexure- I).
- In the same communication of the MoP, GOI as mentioned, accepted the fact that Power Stations under CPSU mentioned their Stations with good O&M practice. The relevant extract from the letter dated 20/04/2023 reads as under:

  "It is noteworthy to mention that many thermal units in India and the world are operating efficiently much beyond 25 years. Further, it is a known fact that due to better O&M practices, the generating stations of CPSUs are operating at full capacity even after completion of 25 years of the useful life as per the norms specified by CERC."
- Petitioner estimated expenditure of Additional capitalization for LE is Rs 455.33 **crores (at Dec'23 Price Level, after decapitalization)**, which translates to Rs 1.56 Rs Cr/MW. As the stations of 25 plus years have their capex recovered, fully depreciated, debt free, Fuel Supply Agreement (FSAs) in place, and well-maintained, power at competitive tariffs can be made available to the beneficiaries. Further, it is to mentioned that out of Rs. 455.33 crore, about Rs. 150.00 Crore has already been utilized to run the machine efficiently. Balance work will be done phase wise so that the Power Station can continue to run efficiently for next 15 years.

Therefore, it is evident from the above, that it is possible to extend the life of the Project by 15 years beyond the useful life of 25 years.

19. It is submitted that the petitioner has paid the requisite filing fee in compliance of Regulation 3 of CERC (Payment of Fees) Regulation 2012 amounting to ₹ 90,28,800/- deposited through SAUDAMINI e-filling portal for payment of annual application fees for determination of Tariff for the FY 2024-25 and detail of the same has been communicated to the Hon'ble Commission vide letter no. NEEPCO/ED/COMML/F-41/2024-25/42 dtd 10/04/2024 in respect of generating stations of NEEPCO. Copy of the letter is attached (Annexure - H).

The details of documents annexed to this petition are given in the Index.

PRAYER

The petitioner, therefore, most humbly prays that the Hon'ble Commission may kindly be pleased to:

(i) Approve the tariff in respect of **AGBPS** for the period of 01.04.2024 to 31.03.2029 and allow recovery of arrears from the beneficiaries, if any, on account of revision of tariff.

(ii) Allow recovery of Security Expenses and expenditure on Capital Spares as detailed in paragraphs 14 and 15 of this Petition.

(iii) Allow recovery of filing fees relating to the period of 2024-29 from the beneficiaries as and when the same paid to the Hon'ble Commission.

(iv) Allow recovery from the beneficiaries the publication expenses incurred with regard to this petition.

(v) Allow to recover from the beneficiaries any levies, tax, cess etc., if any, as mentioned in paragraph 11 above.

(vi) Pass any other order in this regard as the Hon'ble Commission may find appropriate in the circumstances pleaded above.

(vii) Allow to carry out of the remaining works relating to life extension beyond useful life during 2024-29 as submitted in petition no. 162/MP/2024.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

THROUGH

(Debjani Dey)
ED (Commercial), NEEPCO
Place: Delhi
Dated:

SUMMARY SHEET

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

(Amount in lakhs)

Sl.	Particulars	Unit	Reference	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3		4	5	6	7	8	9
1.1	Depreciation	Rs Lakh	Form-12	3,039.68	3,361.11	3,831.07	4,260.48	5,612.88	7,806.44
1.2	Interest on Loan	Rs Lakh	Form-XI	99.55	-	-	-	-	-
1.3	Return on Equity	Rs Lakh	Form-1(BA) &Form-2(IB)	14,886.41	14,436.35	14,720.41	14,766.75	14,912.78	15,101.95
1.4	Interest on Working Capital	Rs Lakh	Form-9	2,603.95	1,961.17	1,790.32	1,356.66	1,696.71	3,847.17
1.5	O & M Expenses-Normative	Rs Lakh		12,658.50	10,537.11	10,906.68	11,290.80	11,696.56	12,095.87
1.6	Special allowance (if applicable)	Rs Lakh							
1.7	Compensation Allowance (if applicable)	Rs Lakh							
	ANNUAL FIXED COST BEFORE SECURITY EXPENSES, CAPITAL SPARES AND WATER CHARGES	Rs Lakh		**33,290.09**	**30,225.74**	**31,249.28**	**31,670.69**	**33,819.73**	**38,851.43**
	Security Expenses	Rs Lakh	Form-6(2)		408.56	337.85	329.04	352.77	495.08
	Water Charges	Rs Lakh	Form-19		10.00100	10.00100	10.00100	10.00100	10.00100
	Capital Spares	Rs Lakh	form-9		1,195.09	2,830.93	188.10	201.53	715.38
	Less 10% salvage value	Rs Lakh			119.61	280.09	18.81	20.15	71.54
	TOTAL AFC	Rs Lakh			**31,710.78**	**34,134.76**	**32,169.02**	**34,344.88**	**39,590.36**
2.1	Landed Fuel Cost Gas as per FSA approved by beneficiaries	(Rs/SCM)	Form-15	7.28	7.00	7.11	4.17	6.77	20.62
	(%) of Fuel Quantity	%		NA	NA	NA	NA	NA	NA
2.2	Landed Fuel Cost Imported Coal as per FSA approved by beneficiaries	%		NA	NA	NA	NA	NA	NA
	(%) of Fuel Quantity			NA	NA	NA	NA	NA	NA
2.3	Target Generation (at 72% PAF)	MWh		1,784,921.83	1,789,612.03	1,784,921.83	1,784,921.83	1,784,921.83	1,789,612.03
	Gross Station HR (Open Cycle)	kCal/kWh		3,446.00	3,079.00	3,578.00	3,578.00	3,578.00	3,578.00
	Gross Station HR (Combined Cycle)	kCal/kWh		2,600.00	2,600.00	2,600.00	2,600.00	2,600.00	2,600.00
	GCV of fuel gas	kCal/SCM	Form-15	9,202.94	9,094.06	9,187.35	9,187.97	9,187.79	9,185.13
2.4	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	(Rs/SCM)		NA	NA	NA	NA	NA	NA
	(%) of Fuel Quantity	%		NA	NA	NA	NA	NA	NA
	Energy Charge Rate ex-bus (Paise/kWh) 2A,2B,2C,2D	Rs/KwH			2.254	2.070	1.217	1.873	5.001

(Petitioner)

STATEMENT SHOWING CLAIMED CAPITAL COST: PART-I

Name of the Petitioner :					
Name of the Generating Station :					
Place (Region/District/State):					

(Amount in lakhs)

Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.0	Opening Capital Cost	154,570.93	156,792.07	156,866.35	158,507.90	161,868.78
2.0	Add: Addition during the year/period	3,360.16	674.92	388.89	3,754.75	1,167.09
3.0	Less: De-capitalisation during the year/period	1,166.06	610.64	122.58	293.86	445.61
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period	-	-	1,385.24	-	-
6.0	Closing Capital Cost	156,792.07	156,866.35	158,507.90	161,868.78	162,590.27
7.0	Average Capital Cost	155,681.50	156,829.21	157,682.12	160,238.34	162,229.53

Statement showing claimed capital cost eligible for RoE at normal rate (A)

Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1.0	Opening Capital Cost	154,570.93	156,666.54	156,730.82	158,382.37	161,843.25
2.0	Add: Addition during the year/period	3,264.66	674.92	388.89	3,754.75	1,128.32
3.0	Less: De-capitalisation during the year/period	1,169.05	610.64	122.58	293.86	445.61
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period	-	-	1,385.24	-	-

6.0	Closing Capital Cost	156,866.54	156,730.82	158,382.37	161,843.25	162,523.97
7.0	Average Capital Cost	155,819.00	156,899.00	157,557.00	160,113.00	162,184.00
		156,866.54	156,730.82	158,382.37	161,843.25	162,523.97

Statement showing claimed capital cost eligible for RoE at weighted average rate of interest on actual loan portfolio (B)

Sl	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1.0	Opening Capital Cost	-	125.53	125.53	125.53	125.53
2.0	Add: Addition during the year/period	125.53	-	-	-	40.77
3.0	Less: De-capitalisation during the year/period					

PART-I
FORM-1(IIA)

STATEMENT SHOWING RETURN ON EQUITY AT NORMAL RATE:

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Amount in lakhs)

Sl.	Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7
	Return on Equity						
1	Gross Opening Equity (Normal)	Rs Lakh	75,359.96	75,988.64	76,007.93	76,503.39	77,541.66
2	Less: Adjustment in Opening Equity	Rs Lakh	-	-	-	-	-
3	Adjustment during the year	Rs Lakh	-	-	-	-	-
4	Net Opening Equity (Normal)	Rs Lakh	75,359.96	75,988.64	76,007.93	76,503.39	77,541.66
5	Add: Increase in equity due to addition during the year / period	Rs Lakh	979.40	202.47	116.67	1,126.42	337.90
6	Less: Decrease due to De-capitalisation during the year / period	Rs Lakh	350.71	183.19	36.77	88.16	133.68
7	Less: Decrease due to reversal during the year / period	Rs Lakh	-	-	-	-	-
8	Add: Increase due to discharges during the year / period	Rs Lakh	-	-	415.57	-	-
9	Net closing Equity (Normal)	Rs Lakh	75,988.64	76,007.93	76,503.39	77,541.66	77,745.87
10	Average Equity (Normal)	Rs Lakh	75,674.30	75,998.29	76,255.66	77,022.52	77,643.76
11	Rate of ROE	Rs Lakh	18.782	18.782	18.782	18.782	18.782
12	Total ROE	Rs Lakh	14,213.15	14,274.00	14,322.34	14,466.37	14,583.05

(Petitioner)

PART-I
FORM-1(II)

STATEMENT SHOWING RETURN ON EQUITY AT WARDI

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

(Amount in lakhs)

Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)					
1	Gross Opening Equity (Normal)	0.00	37.66	37.66	37.66	37.66
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	0.00	37.66	37.66	37.66	37.66
5	Add: Increase in equity due to addition during the year / period	37.66	0.00	0.00	0.00	12.23
6	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
8	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
9	Net closing Equity (Normal)	37.66	37.66	37.66	37.66	49.89
10	Average Equity (Normal)	18.83	37.66	37.66	37.66	43.77
11	Rate of ROE	11.854	11.854	11.854	11.854	11.854
12	Total ROE	223.20	446.41	446.41	446.41	518.90

There is no actual loan . So interest is taken as 9.783% as per Tariff order dtd 21.12.21 Petition No. 298/GT/2019

(Petitioner)

PART-I
FORM-2

Plant Characteristics

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Plant

Unit(s)/Block(s) Parameters	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
Installed Capacity (MW)	33.5	33.5	33.5	33.5	33.5	33.5	30	30	30
Schedule COD as per Investment Approval									
Actual COD/Date of Taken Over (as applicable)	1.5.1995	1.5.1995	1.7.1995	1.8.1995	1.4.1997	1.4.1997	1.4.1999	1.4.1999	1.4.1999
Pit Head or Non Pit Head									
Name of the HRSG							Waste Heat Recovery Boiler	Waste Heat Recovery Boiler	Waste Heat Recovery Boiler
Name of the Turbine Generator Manufacture	Mitsubishi Heavy Industry, Japan	Mitsubishi Heavy Industry, Japan	Mitsubishi Heavy Industry, Japan	Mitsubishi Heavy Industry, Japan	BHEL	BHEL	BHEL	BHEL	BHEL
Main steams Pressure at Turbine inlet (kg/Cm²)abs[1]							43	43	43
Main steams Pressure at Turbine inlet (°C)[1]									
LPSteams Pressure at Turbine inlet (kg/Cm²)[1]									
LPSteams Temperature at Turbine inlet (°C)[1]							473	473	473
Main Steam flow at Turbine inlet under MCR condition (tons/hr)[2]									
Main Steam flow at Turbine inlet under VWO condition (tons/hr)[2]									
Unit Gross electrical output under MCR/Rated condition (MW)[2]									
Unit Gross electrical output under VWO condition (MW)[2]									
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh)[2]									
Conditions on which design turbine cycle heat rate guaranteed.	2167	2167	2167	2167	2167	2167	2070	2070	2070
% MCR	100								
% Makeup Water Consumption							7	7	7
Design Capacity of Makeup Water System									
Design Capacity of inlet Cooling System									
Design Cooling Water Temperature (°C)							27	27	27
Back Pressure							0.083	0.083	0.083
Steam flow at super heater outlet under BMCR condition (tons/hr) - Main/HP Steam									
Steam Pressure at super heater outlet under BMCR condition (kg/Cm²)- Main/HP Steam									
Steam Temperature at super heater outlet under BMCR condition (°C)- Main/HP Steam									
Steam flow at LP outlet under BMCR condition (tons/hr) - LP Steam									
Steam Pressure at LP outlet under BMCR condition (°C)- LP Steam									
Steam Temperature at LP outlet at BMCR condition (°C)- LP Steam									
Design/Guaranteed HRSG Efficiency (%)[4]									
Design Fuel with and without Blending of domestic/imported coal									
Type of Cooling Tower							Induced draft	Induced draft	Induced draft
Type of Cooling System[5]							Closed Circuit	Closed Circuit	Closed Circuit
Type of HRSG Feed Pump[6]							Motor Driven	Motor Driven	Motor Driven
Fuel Details[7]	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas			
- Primary Fuel	Natural Gas				Natural gas	Natural gas			
- Secondary Fuel	Nil	Nil	Nil	Nil	Nil	Nil			
- Alternate Fuel	Nil	Nil	Nil	Nil	Nil	Nil			
Types of SOX control system									
Types of NOX control system									
Details of ESP/Cyclone									
Special Features/Site Specific Features[8]	Brake and Make-up water system provided								
Special Technological Features[9]									
Environmental Regulation related features[10]	Nox control system provided								
Any other special features	This is a Combined cycle gas based power plant with Gas Booster(Gas engine operated) station.								

1. At turbine MCR condition
2. with pre-fixed make up and design Cooling water temperature

a-c: THCR output based on gross generation, on drift makeup and design Cooling water temperature
a. With Performance coal based on Higher Heating Value (HHV) of fuel and c) SHCR output
c: Closed circuit cooling, once through cooling, air cooling, natural draft cooling, balanced draft cooling etc.
e: Motor driven, Steam turbine driven etc.
f: Coal or natural gas or Naptha or Furnace oil.
g: Any site specific feature such as Heavy Ga Raised, Victory lagoon, Inter makeup water sources etc. and others etc. Specify at each location
h: Any Special Technological features like advanced class FA technology in Gas Turbines, etc.
i-o. Environmental Regulations related features like FGD, ESP etc.,
Note 1: In case of deviation from specified conditions in Regulations, reasons in brief of financial impact may also be furnished
Note 2: Heat Balance Diagram has to be furnished along with above information in case of new stations
Note 3: The terms "PLF, NAPAF, NHRF, Primary fuel cost, are as defined in CERC Technical standards for Construction of electric lines and Electric Line Regulations - notified by the Central Electricity Authority.

page no.

Petitioner

PART-I
FORM-3

Normative parameters considered for tariff computations

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

Year ending March

Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
Base Rate of Return on Equity	%	15.50	15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization		15.50	15.50	15.50	15.50	15.50	15.50
Effective Tax Rate*	%	17.472	17.472	17.472	17.472	17.472	17.472
Target Availability	%	72	72	72	72	72	72
In High Demand Season	%	72	72	72	72	72	72
Peak Hours	%	72	72	72	72	72	72
Off-Peak Hours	%	72	72	72	72	72	72
In Low Demand Season(Off-Peak)	%	72	72	72	72	72	72
Peak Hours	%	72	72	72	72	72	72
Off-Peak Hours	%	72	72	72	72	72	72
Auxiliary Energy Consumption	%	2.5	2.5	2.5	2.5	2.5	2.5
Gross Station Heat Rate	kCal/kWh	2600	2600	2600	2600	2600	2600
Specific Fuel Oil Consumption	ml/kWh	NA	NA	NA	NA	NA	NA
Cost of Coal/Lignite for Working Capital[1]	in Months	NA					
Cost of Main Secondary Fuel Oil for WC[1]	in Months						
Fuel Cost for Working Capital[2]	in Months	1	1	1	1	1	1
Liquid Fuel Stock for Working Capital[2]	in Months						
O & M expenses considering Regulation 29(1)(c)	lakhs / MW	43.5	36.21	37.48	38.8	40.16	41.57
Maintenance Spares for Working Capital	% of O&M	30	30	30	30	30	30
Receivables for Working Capital	in Months	2	1.5	1.5	1.5	1.5	1.5
Storage capacity of primary fuel	MT						
SBI Base Rate + 350 basis points as on	%	11.65	12.050%	11.250%	10.800%	10.500%	12.000%
Blending ratio of domestic coal/imported coal	NA						

1. For Coal based/lignite based generating stations
2. For Gas Turbine/Combined Cycle generating stations duly taking into account the mode on gas fuel and liquid fuel
3. Mention relevant date

Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or advance tax)/gross income, where gross income refers the profit before tax.

(Petitioner)

Note:- Form to be compiled by Commercial Section, Shillong

PART-I
FORM-5

Abstract of Admitted Capital Cost for existing Projects

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER STATION
Place (Region/District/State) : North Eastern Region District: DIBRUGARH State: ASSAM

Last date of order of Commision for the project	Date(DD-MM-YYYY)	21.12.2021
Reference of petition no. in which the above order was passed	Petition No.	298/GT/2019
Following details (whether admitted and / or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission :		
Capital cost (Rs . in lakh)		154584.7824
Amount of un-discharged liabilities included in above (& forming part of the admitted capital cost)		0.00
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		13.8524 154570.93000 Cash basis
Gross Normative Debt (Rs . in lakh)		79210.97
Cumulative Repayment (Rs . in lakh)		79210.97
Net Normative Debt (Rs . in lakh)		0.00
Normative Equity (Rs . in lakh)		75359.96
Cumulative Depreciation (Rs . in lakh)		123736.71
Freehold land (Rs . in lakh)		150.17

(Petitioner)

PART-I
FORM-17

DETAILS OF CAPITAL SPARES

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.				
Name of the Generating Station :	ASSAM GAS BASED POWER STATION				
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM		
Date of Commercial Operation :	4/1/1999				

FY19-20

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through	Funded through Special	Claimed as a part of stores
	Name of spare	Amount (in Rs.)				
1	Actuator ASM Gas Regulating	8.28	-			
2	NBL Piston - 275 Diameter	8.37	8.37			
3	NBL HEAD CYNLINDER ASSN	13.29	13.29			
4	Seal Assy. With Seal Support Bars	15.19	-			
5	Gear Box, GS315/GZ30	15.92	-			
6	Gas Leakage Detection System	11.24	11.24			
7	Capacity Control VLV Actuator	15.50	-			
8	Nozzle Ring	9.48	-			
9	Piston Rod	21.16	21.16			
10	Blade Kit- Turbine Rotor Stage-I	590.00	590.00			
11	Nozzle Assembly Turbine Stage-II	458.15	458.15			
12	Shroud Set Turbine Stage # 3	40.12	40.12			
13	245 KV HV Bushing +15MVA Stationery Transformer	8.85	-			
14	HV Bushing+50MVA Generator Transformer	8.85	-			
15	Bearing Thrust/ Bearing Thrust Tilting Pad	5.20	-			
16	P-N: 43969-00001Flame Detector ignition System	31.11	-			
17	Charmatograph Natural Gas With Accessories	65.86	-			
18	Complete Set of control VLV, CV-20//21	10.79	-			
19	Complete Cyclo Gear Model ZS6-616	7.29	-			
20	Thrust Bearing Assy/Thrust BRG (Complete Set)	56.20	-			
21	Instrument Air Compressor/Instrument Air Drier Exhaust Valve, Cyl Model	5.11	-			
22	Nozzle Arrgt Turbine Stage I, Nozzle Arrgmt Stage 1 (PGMA-33118)	367.61	-			
23	Nozzle Arrgt Turbine Stage 2, 2nd stage nozz, Assy FR6B	563.06	-			
24	Nozzle Arrgt Turbine Stage 3, NIL	458.15	-			
25	Blade Kit Turbine Rotor Stage 3, NIL	383.10	-			
26	Shroud Set Turbine Stage #3	40.12	40.12			
27	Quil Shaft for MOP	5.66	5.66			

28	16.25 Inch Cylinder Assy	137.11	-			
29	90AF 30A, Complete Actuator, GTG#1/4, Rotork Make (WO-2220-00-02)	13.94	6.97			
	Grand Total	3,377.68	1,196.09			

Total Spares Capitalized in FY19-20	3,377.68	
Spares consumed and claimed in FY20-21	**1,785.08**	**To be claimed as Capital Spares in FY20-21**
Spares consumed and claimed in FY19-20	**1,196.09**	**To be claimed as Capital Spares in FY19-20**
Spares not utilized	396.51	Part of Exclusion

(Petitioner)

PART-I
FORM-17

Details of Capital Spares

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
Date of Commercial Operation :	4/1/1999			

FY20-21

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through	Funded through Special	Claimed as a part of stores
	Name of spare	Amount (in Rs.)				
1	Bearing Set for LGB	97.65	97.65			
2	Set of Bearing for MOP (1SET=4NOS)	16.26	16.26			
3	Blade Kit Turbine Rotor Stage-I Blade Kit Turbine Rotors	590.00	590.00			
4	CMR 925 Rexnord Make Thomesh Coupling	6.08	-			
5	CMR 925 Rexnord Make Thomesh Coupling	12.91	-			
6	Diaphargm Row-16	55.24	-			
7	Combustor Basket Assy ,Combustor Basket Unit 1-2-5-6	95.63	-			
8	Combustor Basket Assy ,Combustor Basket Unit 3-4	47.81	-			
9	Combustor Basket Assy ,Combustor Basket Unit 7-8	47.81	-			
10	Combustor Basket Assy ,Transition Piece	206.13				
11	Turbine Blade Ring & Static Row unit 1-2-3	267.58				
12	Turbine Blade Ring & Blade Static Row unit 1-2-3	24.15				
13	Turbine Blade Ring & Blade Static Row unit 1-2-3	256.94				
14	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RU)	12.65				
15	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (BS)	12.65				

16	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (LU)	12.85				
17	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RL)	12.85				
18	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,supporter #1(Horizontal)	60.72				
19	Bypass Valve Actuator	6.17				
20	Discharge Valve Actuator	7.58				
21	Bearing Insulation	7.63				
22	Cap & Liner Arrgt-Combustion ,Comb Linear Assy(G-24)	42.25	42.25			
23	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgms-35111)(G-25)	21.13	21.13			
24	Case & Shroud Arrgt ,Turbine ,Kit of 36 Shrouds Stage 1	88.96	88.96			
25	Compreessor wheel	22.35	22.35			
26	Ratchet Mechanism/ Cam, Freewheel Assy	11.50	11.50			
27	Module-DIAG , IGN PWR (IPM-D)	5.11	-			
28	Housing Assy Wastegate, 3 IN R.B	9.43	9.43			
29	Housing Assy Wastegate, 3 IN R.B	9.43	9.43			
30	LGB Coupling Hardware (Nut, Bolt washer) between GEN and Gear Box	19.09	-			
31	Diverter Damper, Air barrier Fan & Motor assy	7.38	7.38			
32	Bearing, Thrust/Bearing Thrust Tilting Pad	5.20	-			
33	Flame Detector (28FD) Miscellenous	16.04	16.04			
34	Pressure Indicator Controller (PIC) GBS MHI Make	9.72	-			
35	Load Coupling & Hardware	22.77	-			
36	Actuator, Heinzmann	22.62	22.62			
37	Air Starter Motor TDI	6.90	6.90			
38	Bulk Acid Storage Tank, MOC: MSRL	8.05	8.05			
39	Housing Assy Wastegate, 3 IN R.B	20.19	20.19			
40	Housing Assy Wastegate, 3 IN R.B	20.19	-			
41	Housing Assy Wastegate, 3 IN R.B	10.33	-			
42	Housing Assy Wastegate, 3 IN R.B	10.33	-			
43	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgms-35111)(G-26)	31.69	31.69			
44	Cross Head	16.15	-			
45	Piston Rod	24.02	24.02			
46	Piston and rod assembly 23 Inch HOS	33.14	-			
47	Water Pump Kit	5.13	-			
48	Overhaul Kit, JWPump	5.56	-			
49	Mandatory Spares for VMS, Metrix Setpoint	52.22	-			
50	Suction Control Valve with Actuator, Full Set	36.95	-			
51	NBL Piston,9:1 275 Diameter	9.34	-			

52	EXT NWORK PROT SYSTY OF ABT MONIT SYS FOR INTEGRATION OF OTHER SYSTEM	8.97	-			
53	SILICA ANALYZER WITH PANEL	7.26	-			
54	Bearing Thrust/ Bearing Thrust Tilting Ped	5.20	5.20			
55	Nozzle Arrgt Turbine Stage I, Nozzle Arrgmt Stage 1 (PGMA-35118)	367.61	367.61			
56	Nozzle Arrgt Turbine Stage 2, 2nd stage nozz. Assy FR88	563.06	563.06			
57	Nozzle Arrgt Turbine Stage 3, NIL	458.15	458.15			
58	Blade Kit Turbine Rotor Stage 3, NIL	383.10	383.10			
59	90AF 30A, Complete Actuator, GTG#1'4, Rotork Make (WD-2220-00-02)	6.97	6.97			
	Grand Total	4,263.16	2,830.93			

Total Spares Capitalized in FY20-21 4,263.16
Spares consumed during FY20-21 2,830.93 **To be claimed as Capital Spares**
Spares not utilized 1,432.23 Part of Exclusion

(Petitioner)

PART-I
FORM-17

Details of Capital Spares

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER STATION

FY21-22

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through	Funded through Special	Claimed as a part of stores
	Name of spare	Amount (in Rs.)				
1	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	47.43	47.43			
2	MODULE-DIAG,IGN PWR(IPM-D):GAS ENGINE	5.66	5.66			
3	1ST STG NOZZLE BODY&DIFUS-MAIN EJEC (Spares for Steam Air Jet Ejector : Condenser air	19.73	-			
4	2ND STG NOZZLE BODY&DIFUS-MAIN EJECTOR (Spares for Steam Air Jet Ejector : Condenser air)	15.48	-			
5	BASIC TURBO CHARGER WAUKESHA 12V 275GL+	82.55	-			
6	Cylinder Head Assembly	17.36	-			
7	Assembly NCM	5.17	-			
8	MODULE-DIAG,IGN PWR(IPM-D):GAS ENGINE	5.88	-			
9	Actuator,HEINZMANN:GAS ENGINE-WAUKESHA	10.33	10.33			
10	Nozzle Ring	9.64	-			
11	Compressor Wheel	24.09	-			
12	Spares for Cooling tower	22.37	-			

13	Circuit Breaker	18.46	18.46			
14	Compressor Casing Complete-72	9.93	-			
15	Wall Insert-77000	5.45	-			
16	Turbine Casing-51000	10.40	-			
17	Nozzle Ring(Spares)	9.64	-			
18	Spares for GBS Wouksa	22.08	-			
19	Gas Compressor Piston Rod Assembly for Gas Boster	35.12	35.12			
20	Spares of Steam Turbines Model HNK-71/2.8/32-4, 30 MW	18.56	18.56			
21	Mandatory Spares for Circuit Breaker	7.82	-			
22	VT PUMP Pump model: 400TE3C4 with accessories	8.79	8.79			
23	VT PUMP Pump model: 400TE3C4 with accessories	8.79	8.79			
24	Bolk acid tank	14.96	14.96			
	Grand Total	**432.70**	**168.10**			

Total Spares Capitalized in FY21-22 432.70
Spares consumed **168.10** **To be claimed as Capital Spares**
Spares not utilized 264.60 Part of Exclusion

(Petitioner)

Details of Capital Spares

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER STATION

FY22-23

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through	Funded through Special	Claimed as a part of stores
	Name of spare	Amount (in Rs.)				
1	Head Cylinder - WAUKESHA 12 V275GL+	21.09	0.00			
2	NBL PISTON 9:1 275 ENGINE/12V 275 GL+	23.62	0.00			
3	NBL LINER CYL ENGINE ENGINE-12V 275GL+	10.75	0.00			
4	Module, Ignition Control(NCM), Gas Engin	10.35	0.00			
5	ACTUATOR ASM, GAS REGULATING:GAS ENGINE	5.55	5.55			
6	Gas Compressor, 23 inch Piston & Rod ass	35.13	35.13			
7	CYLINDER 23 INCH FOR GBS	205.82	0.00			
8	PISTON & ROD:GBS:GAS COMP:16.25" CYL	25.46	0.00			
9	ACTUATOR	11.22	11.22			
10	AIR STARTER MOTOR 293435L 12V 275GL+	8.32	0.00			
11	UPPER PART OF BEARING SHELL:STG 3GMW	9.21	0.00			
12	3Ph-MOTOR IS:325 4POLE-1500RPM 75kW-280S	5.60	0.00			

13	STEAM TURBINE ROTOR	478.26	0.00			
14	6.6 KV, 550 KW Vertical CW Pump Motor	77.40	77.40			
15	COMP. CG MODEL ZS6-25/HUMBOLDT WEDAG	7.61	0.00			
16	SCROLL CONVEYOR ASSEMBLY: CETRIFUGE	12.26	12.26			
17	KIRLOSKER PUMP	8.21	0.00			
18	PROPELLER SHAFT TRANSVERSE DRIVE	21.93	0.00			
19	FLAME DETECTOR 315A2706P001 (28FD)	18.75	0.00			
20	ROTORK GEAR BOX RH SIDE	42.95	0.00			
21	ROTORK GEAR BOX LH SIDE	42.95	0.00			
22	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	59.96	59.96			570.55
23	TORQUE CONVERTER TWINDISC: 4-SGE-2015-1	130.50	0			
24	50 MVA GT (BHEL)	525.1	0			
	Total	1797.83	201.53			

Total Spares Capitalized in FY22-23	1,797.83	
Spares consumed during FY22-23	201.53	To be claimed as Capital Spares
Spares consumed during FY23-24	570.55	To be claimed as Capital Spares
Spares not utilized	1,025.76	Part of Exclusion

(Petitioner)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : ASSAM GAS BASED POWER STATION

FY23-24

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through	Funded through Special	Claimed as a part of stores
	Name of spare	Amount (in Rs.)				
1	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	59.96	0.00			
2	REDUCTION GEAR UNIT(SR 36 GRDR)	22.90	22.90			
3	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	12.48	0.00			
4	Module, Ignition Control (NCM), Gas Engine	6.70	0.00			
5	Housing Assy Wastegate 3 in LB WAUKESHA	25.95	25.95			
6	Housing Assy Wastegate 3 in RB WAUKESHA	25.00	0.00			
7	ATOGRAPH-GAS:ROSEMOUNT SPS PCBA CPU	6.00	0.00			
8	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	26.20	0.00			
9	Gas Compressor, 23 inch Piston & Rod ass	36.70	36.70			
10	Gas Compressor, 23 inch Piston & Rod ass	0.43	0.00			
11	50 MVA GT	44.53	44.53			
12	VERTICAL TURBINE PUMP (INTAKE)	14.75	14.75			
13	CapitalSparesforFY2023-24_GT	23.51	0.00			
14	Head Cylinder - WAUKESHA 12 V275GL+	21.09	21.09			

15	3PH-MOTOR IS:325 4POLE-1500RPM 75kW-280S	5.60	5.60			
16	FLAME DETECTOR 315A2708P001 (28FD)	18.76	18.76			
17	50 MVA GT (BHEL)	525.1	525.1			
	Total	876.65	715.38			

Total Spares Capitalised in FY23-24 876.65
Spares consumed during FY23-24 **715.38** **To be claimed as Capital Spares**
Spares not utilised 161.27 Part of Exclusion

(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD

Name of the Generating Station : ASSAM GAS ABASED POWER STATION

COD: 4/1/1998

For Financial Year 2019-20

PART-I , FORM-9

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
ADD CAP EXPENSES ADMITTED BY CERC									
1	Replacement of old Waukesha Gas Engine 12V276 GL of Unit-4 of GBS along with all auxiliaries like Air Cooled Heat Exchanger (ACHE),Fuel filter		0.00	1,861.29		25(2)(d)	JUSTIFICATION The reasons for replacement of old Waukesha Gas Engine with new higher capacity AT 12V 276GL+ Waukesha Gas Engine with its auxiliaries and enhancement of Gas Compressor capacity were as follows: 1. The Old Gas Engine was old and obsolete. 2. There was a design problem for which the engine power was not sufficient to drive the compressor. 3. To increase reliability of the Gas Booster Station (GBS) as well as the plant. 4. The Old Gas Compressors were unable to deliver and 4 units were put into service to run all the 6 numbers of Gas Turbines. There are four numbers of Gas Booster Station to cater service for supply pressurised gas to the Gas Turbines. As per design philosophy, 3 GBS units are in running condition to run 6 numbers of Gas Turbines. REASON FOR CARRYING OUT R&M OF 4TH GBS UNIT AND INCREASES OF COST: A.Replacement of Waukesha gas engine (4th GBS Unit): As per the approval of the CERC, the replacement of 3 (three) out of 4 (Four) numbers of Gas Engines & modification of Gas Compressors were completed within 2015-16. The projected approved figures of Rs. 6153.36 lakhs for additional capitalisation of 4 GBS units, which was allowed by CERC order dated 15.3.2016 in Petition No.41/GT/2015, was calculated based on past experience / budgetary estimates, and therefore, the final execution costs may vary. The actual cost incurred for replacement and modification of Gas Engines of 3 GBS units was Rs.5097.00 Lakhs and was completed during the year 2016-17. But, the projected additional capitalisation claimed and allowed by CERC vide order dated 15.01.2016 in petition no. 41/GT/2015 for 4th unit of GBS for Replacement of Gas Engine was Rs. 1647.00 Lakhs for the FY 2017-18. However, for the following reasons, the	FO no: NEEPCO/AGBP/HOF/2018-19/W-10(A)/635 dtd. 24/01/2019 & WO no: NEEPCO/AGBP/HOF/2018-19/W-10(A)/642 dtd. 24/01/2019 placed to M/S CEPL (Annexure-1]	1,066.38

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD

PART-I , FORM-9

Name of the Generating Station : ASSAM GAS ABASED POWER STATION

COD: 4/1/1999

For Financial Year 2019-20

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
2	Revamping/modification of the Dresser-Rand Gas Compressor of GBS Unit-4		0.00	884.08		29(2)(x)	modification of 4th unit GBS could not be completed within 2017-18 and successfully completed during the FY 2019-20. The reasons were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. Considering the sufficient inventory levels of old Waukesha Gas Engines and Dresser Rand Gas Compressors, replacing the 4th unit in 2017-18 would have led to underutilized assets and inefficient use of capital. 3. Had all four units been replaced during the 2014-19 block, the capital cost of the 4th GBS unit would have been absorbed within the 2014-19 tariff period. However, by phasing the replacement, the cost impact of the additional capital infusion for the 4th unit shifts to the 2019-24 tariff block. 4. The phased replacement approach allows us to stagger the expenditure, avoiding a significant upfront financial burden and increases of tariff on beneficiaries. This segmented approach distributes the costs over time, reducing the financial strain. The PO & WO placed for modification of the 4th Gas Engine was placed in the year 2019 and job was successfully completed during the period 2019-20. The actual cost incurred for replacement of Waukesha Gas Engine and other auxiliaries for the 4th GBS unit was Rs.1961.21 Lakhs. B.Modification of Dresser Rand Gas Compressor (4th GBS Unit): As per the approval of the CERC, the replacement of 3 (three) out of 4 (four) numbers of Gas Engines & modification of Gas Compressors were completed within 2015-16. The projected approved figures of Rs. 3272.58 lakhs for additional capitalisation of 4 GBS units, which was allowed by CERC order dated 15.2.2016 in Petition No.41/GT/2015, was calculated based on past experience / budgetary estimates, and therefore, the final execution costs may vary. The actual cost incurred for replacement and modification of Gas Compressors of 3 GBS units was Rs.2735.21 Lakhs and was completed during the year 2016-17. However, the projected additional capitalisation claimed and allowed by CERC Vide order dated 15.02.2016 in petition no. 41/GT/2015 for modification of Gas	PO: NEEPCO/AGBP/HOP/2018-19/W-10(A)/332 dtd. 21/08/2018 & WO NEEPCO/AGBP/HOP/2018-19/W-10(A)/451 dtd. 03/11/2018 placed to M/S Dresser-Rand India Private Limited (Annexure-I)	538.37

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD

Name of the Generating Station : ASSAM GAS ABASED POWER STATION

COD: 4/1/1999

For Financial Year 2019-20

PART-I , FORM-9

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis (in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
3	Up-gradation of 7200-series, BENTELY-NEVADA make Vibration monitoring system of GT-1 and GT-2.	110.00	0.00	103.00		29(2)(c)	VMS rack 7200 of M/S Bently-Nevada is obsolete. Spare support is not available. As such, upgradation of Vibration Monitoring Syaytem is essential for safety of the equipment. The OEM has issued obsolete certificate. Installation and commissioning in GTG Unit # 1 on 18/05/2019 and GTG Unit # 2 on 20/06/2018	PO: NEEPCO/AGBP/C&I/T-13(C1)/2018-19/SONB055/419 dtd. 28/02/2019 placed to M/S Wilstrong Solutions Pvt. Limited (Annexure-3)	106.35
4	Replacement of existing UPS with battery Bank for GT controllers and Online monitoring system.	-	0.00	119.78		29(2)(c)	1) Commission has already been admitted for the Year 2016-17 for an amount of Rs. 104.00 Lakhs and the works has already been completed in 2019-20. 2) The UPS system including Battery for GT controller and online monitoring system have commissioned in 1998. 3) As per guidelines of OEM, the life periods of Tubular Type (Microscopic Rubber) battery is 10-14 years and Pasted Type (Microscopic Rubber) is 5-7 years. 4)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd 27.05.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension.	PO ref. no: NEEPCO/AGBP/PEM/O&M-07/2018-19/452 dtd. 14/12/2018 placed to M/S Consul Neowatt Power Solution Pvt. Limited (Annexure-4)	104.00

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD

Name of the Generating Station : ASSAM GAS ABASED POWER STATION

COD: 4/1/1989

For Financial Year : 2018-20

PART-I , FORM-8

Sl No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
	Total (A)		0.00	3,066.15					1,808.09
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									
1	Construction of 20 MVAR Line Reactor		0.00	122.72		26(1)(a) & 26(1)(d)	As per MOM between NERPC/NERLDC and NEEPCO for system stability of NER grid.	Deposit Work. Agreement between NEEPCO & PGCIL dtd. 25/05/2012 (Annexure-5)	
2	Replacement of Tabular Lead Acid Battery 48 V TBS (OPZS) 500AH of PLCC system		0.00	39.21		25(2)(c)	1)The 48 V DC Battery bank and Caldyne make battery Charger for PLCC had installed initially by PGCIL which was in service since commissioning of the plant (1985). Due to deteriorated condition of the 48 Volts Battery bank, it was advise in the 134th OCC meeting for replacement of the 48 Volts Battery bank. Moreover, the OEM suggested for replacement / upgradation of the same. 2) As per CEA guidelines issued vide no. 2/3/Misc /TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life R&M works for Life Extension. Accordingly, it is necessary for replacement old battery bank for reliable operation of the system.	PO ref. no. NEEPCO/AGBP/PEM/O&M-01/2017-18/39/BH323/580(A) dtd. 09/05/2018 placed to M/S Nemrup Sales Corporation (Annexure-6)	

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD

PART-I , FORM-9

Name of the Generating Station : ASSAM GAS ABASED POWER STATION

COD: 4/1/1999

For Financial Year: 2019-20

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
3	Upgradation of protection system by replacing existing electro-magnetic relays with numerical relays for 6.6 KV OCB & OCC Bus and fire fighting pump house control panel.		0.00	18.79		26(2)(c)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	PO ref. No: NEEPCO/AGBP/PEM/O&M-12/18-19/187 dtd. 13/08/2018 placed to M/S Everite Engineering Industries, Tinsukia (Annexure-7)	
4	Installation of External GPS system for time synchronization of RTU		0.00	2.81		26(1)(d)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 2) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 3) It is necessity for time synchronization for the safety and security of grid. 4) DPR/documentry evidence for life extension has already submitted.	PO ref. no. NEEPCO/AGBP/PEM/O&M-02/3918147/18-19/823 dtd. 28/03/2019 placed to M/S SCOPE T&M Private Limited, Mumbai (Annexure-8)	

Year wise Statement of Additional Capitalisation after COD

PART-I , FORM-9

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD

Name of the Generating Station : ASSAM GAS ABASED POWER STATION

COD: 4/1/1999

For Financial Year 2019-20

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.5	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
8	Replacement of Digital Voltage Regulator(DAVR) FOR STG II		0.00	18.35		26(2)(c)	The existing Unitrol-M AVR system of ABB was obsolete. The Spare support of the old system was not available. As such, to make the system reliable and avoid outages due to non- availability of the spares, the system is replaced with new DAVR. The OEM has issued obsolete certificate	PO ref. no. NEEPCO/AGBP/C&I/T-52/2018-19/SDNB/115/283 dtd. 23/11/2018 order placed to M/S ABB India Limited. (Annexure-9)	
9	Vibration Monitoring System STG-I and STG#2		0.00	128.17		25(2)(c)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	PO ref. no. NEEPCO/AGBP/C&I/T-52/2018-19/SDNB/120/285 dtd. 22/11/2018 & WO ref. no. NEEPCO/AGBP/C&I/T-52/2018-19/334 dtd. 27/12/2018. Order placed to M/S GE Oil & Gas India Pvt. Limited. (Annexure-10)	
	Total(B)	-		322.04					
	Total (A)			3,390.19					
	Adjustments								
	Net Additional Capitalisation			3,390.19					
	Add Cap for WAROI			125.53					
MAJOR CAPITALISED SPARES									
1	MAJOR CAPITALISED SPARES			1,196.09					
	Total (C)			1,196.09					-
	Grand Total (A+B)			4,586.28					1,605.08

Year wise Statement of Additional Capitalisation after COD — PART-I , FORM-9

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD

Name of the Generating Station : ASSAM GAS ABASED POWER STATION

COD: 4/1/1969

For Financial Year 2019-20

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)				
1	2	3	4	(5=3-4)	6	7	8	9

In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past,fill column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority)(Enclosed copy of the tariff Order)

The above information needs to be furnished seperately for each yearperiod of tariff period 2019-24.

In case of de- capitalisation of assets seperate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of such assets to be furnished at column 9.Where de-caps are on estimated basis thesame to be shown seperately.

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original valueof such asset to be shown at col. 3. And Impaired value if any , year of its capitalisation to be mentioned at column 8.

Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalisation of that particular asset.

Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and thebenefits accruing to the beneficiaries.

In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated seperately.e.g. Rotor- 50 Crs. Initial spares -5Crs.

(Petitioner)

As per form 9 (B)	4,666.25
Exclusion as per form K (2)	714.90
Decapitalisation (D)	1,175.17
Reversal (E)	-
Total as per 9 (B)	4,126.01

Capital spares capitalised	1,785.08
Total as per 9 (B)	5,911.10
Change in Gross block in B	5,911.49

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner: NORTH EASTERN ELECTRIC POWER CORPORATION LTD. PART -I, FORM-8

Name of the Generating Station: ASSAM GAS ABASED POWER STATION

COD: 4/1/1998

For Financial Year: 2020-21

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharge d Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									
1	Replacement of old existing hydraulic operated Circuit Breaker with new ABB make spring operated SF6 of Circuit Breaker (for 6 nos. of CB)		0.00	162.75		25(2)(k)	1) As per CEA guidelines issued vide no. 283/Misc/TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHGL make 220 KV SF6 CB have commissioned in 1986 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works has already been completed. 3) Documentary evidence for life extension has already submitted.	PO ref. no. NEEPCO/W/651/RENM/O&M-01/19-20/365 dtd. 12/08/2019 placed to M/S ABB India Limited (Annexure-37)	
2	Replacement of Fill Packs of Cooling Tower		0.00	91.54		25(2)(a)	Fouled fill packs of cooling tower was replaced to improve water distribution as well as to improve cooling tower efficiency. Improvement of cooling tower efficiency improves condenser performance and thereby efficiency of steam turbine improves.	WO ref. no. NEEPCO/AGBP/IT&App/W-33(A)-09/2020-21/240 dtd. 01/08/2020 placed to M/S Cooldeck Industries Pvt. Limited (Annexure-43)	
3	HMI upgradation & Reinstallation including Custom duty		0.00	114.94		25(2)(b)	Server cum HMI of GT#5 was based on windows-XP and of GT#6 was windows-2007. Service support and Anti-virus update for Windows-XP & 2007 was not available. HMI of GT#5 is replaced with windows-10 and GT#6 is upgraded to Windows-10.	PO ref. no. NEEPCO/AGBP/HOP/2020-21/W-12(B)/013 dtd. 29/09/2020 placed to M/S BHEL-GE Gas Turbine Services Pvt. Limited (Annexure-24)	
4	Upgradation of mini state-vib Control system		0.00	9.44		25(2)(b)			
5	Vibration Monitoring & Temperature Monitoring System ST3#2 (Spares)		0.00	69.72		25(2)(c)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	PO ref. no. NEEPCO/AGBP/T&I/T-12/2019-20/WORK/315/203 dtd. 19/09/2020 placed to M/S GE Oil & Gas Pvt. India Limited (Annexure-15)	
6	Vibration Monitoring & Temperature Monitoring System ST3#2 (Service)		0.00	5.99		25(2)(c)		WO ref. no. NEEPCO/AGBP/T&I/T-12/2020-21/317 dtd. 31/10/2020 placed to M/S GE Oil & Gas Pvt. India Limited (Annexure-16)	

	7	Technical Advisory Services for MI with LGB and AGB inspection of BHEL supplied GT U # 5		0.00	82.41			Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	WO ref. no. KEEPCO/ADRP/HOP/19-20/W-833/387 dtd. 25/10/2019 placed to M/S BGRTS (Annexure-17)	
	8	Technical Advisory Services for MI with LGB, AGB inspection exhaust plenum repair of BHEL supplied GT U # 5		0.00	148.49			Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	WO ref. no. KEEPCO/ADRP/HOP/20-21/W-833/397 dtd. 28/08/2020 placed to M/S BGRTS (Annexure-18)	
		Total(A)		0.00	974.92					
		Add Gas for WWRO			-					
		MAJOR CAPITALISED SPARES								
	1	MAJOR CAPITALISED SPARES		0.00	2830.93					
		Total (B)		-	2,830.93					
		Grand Total (A+B)		-	3,805.84					

In case the project has been completed and cost has already been admitted under any tariff notifications) in the past,fill column 9 giving the cost as admitted for the purpose of tariff rogification already issued by (name of the authority)(Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of tariff period 2019-24.

In case of de- capitalisation of assets separate details to be furnished in columns 1,2,3 and 4.Further the original book value and year of capitalization of such assets to be furnished at column 8.Where de-cap are on estimated basis the same to be shown separately.

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original value of such asset to be shown at col. 5. And realised value if any , year of its capitalisation to be mentioned at column 8.

Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalisation of that particular asset.

Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and thebenefits accruing to the beneficiaries.

In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated separately e.g. Rotor- 50 Crs. Initial spares -5Crs.

(Petitioner)

As per form 9 (B)	3,805.84
Exclusion as per form K 9	1,477.84
Decapitalisation (2)	814.50
Reversal (3)	-
Total as per books	4,369.68

Capital spares capitalised in	1,785.08
Total as per 9 (B)	2,093.00
Change in Gross block in Bus	2,393.00

This is negative as this was capitalised in Books in FY-2019-20 but used in FY-2020-21

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD

Name of the Generating Station: AGBAM GAS BASED POWER STATION

COD: 4/11/99

Regd. No. (as per Tariff Order): 2001-02

PART – I, FORM-9

Sl. No.	Head of Work/Equipment	ACE Claimed /Actual/Projected			IDC (Not applicable in case of Regulated tariff mechanism)	Regulation under which claimed	Justification	Admitted Cost in the Commission's Order	Division	Chairman's Comments
		Amount (in lakh)	Undischarged Liability included in col.3	Cash basis (in Lakhs)						
1	2	3	4	(5=3-4)	6	7	8	9		
ADD CAP EXPENSES ADMITTED BY CERC										
	Nil Job									
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRING IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE										
3	Procurement of Transformer Oil filtration plant of capacity 6000 LPH		0.80	17.84		53(3)(x)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1998) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 209/Mtce/TPRM/CEA/2015/665 dtd:27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessarily to ensure healthiness of transformer.	PO ref. no. NEEPCO/ADMN/WH/DBM-01/2009-2U/135 dtd. 05/08/2009 placed on M/S Micronix System Pvt. Limited, Bangalore-58	FEM	
4	Transformer filtration plant of capacity 12000LPH		0.00	4.25		25(3)(a)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1998) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 209/Mtce/TPRM/CEA/2015/665 dtd:27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessarily to ensure healthiness of transformer.		AGM	
5	Dagle chamber steel moulded type Transformer Oil Storage tank		0.03	1.46		34(i)(c)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1998) of the Plant and have already been crossed 25 years. This is a part of Filtration Plant and ordinarily for 25MVA Aux. Transformer and some has already been procured for filtration of Transformer oil.		FEM	
6	To replacement of old centring hydraulic operated CB with new ABB make spring operated SF6 of Circuit Breaker(for 4 nos. of CB)		0.00	88.04		34(b)(c)	1) As per CEA guidelines issued vide no: 209/Mtce/TPRM/CEA/2015/665 dtd:27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1998 and already cross 25 years. Moreover, BHEL, OEM has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-SAV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentary evidence for the said work has already submitted.	PO ref. no. NEEPCO/ADMN/WH/DBM-01/2009-2U/178 dtd. 05/12/2009 placed on M/S ABB Power Product & System India Limited, Bangalore-52	FEM	Documentary evidence required.
7	Replacement of old centring hydraulic operated CB with new ABB make spring operated SF6 of Circuit Breaker(for 3 nos. of CB)		0.09	43.71		34(b)(c)	1) As per CEA guidelines issued vide no: 209/Mtce/TPRM/CEA/2015/665 dtd:27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1998 and already cross 25 years. Moreover, BHEL, OEM has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-SAV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentary evidence for the said work has already submitted.	PO ref. no. NEEPCO/ADMN/WH/DBM-01/2009-2U/128 dtd. 03/07/2009 placed on M/S ABB Power Product & System India Limited, Bangalore-052	FEM	Documentary evidence required.
8	DIGITAL VOLTAGE REGULATOR DAVR (01 set @ 3 x 8)		42.00	19.47		25(2)(c) i	Universal AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of 2T Unit #3	PO ref. no. NEEPCO/ADMN/TC/SUT-05/2020-21/BHEL/1013 dtd. 25/01/2020 placed on M/S ABB India Limited	CEI	Clearance/ cost table required.
			8.00	1.19		25(2)(c) i	Spares for the above			Clearance/ cost table required.
			8.00	22.58		25(2)(c) i	Universal AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of 2T Unit #2			Clearance/ cost table required.

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			0.00	1.69		35(2)(c)	Service life the above			Obsolete certificate received
	T1	REPLACEMENT & INSTALLATION OF Cummins Gratec 5 (101.07 Lacs+ INSTALLATION)		0.00	85.81		26(2)(v)	Due to shaking of Crank Case Lube Oil with Diesel, the engine automatic line overhaul, piston etc. of the Existing Diesel Engine got seized. The engine was 25 years old and the repair cost of the old engine is high. As such, it was decided to procure 1 (one) new Starting Diesel Engine.	RE/PCC/AM/SR/GTE/Aug/22-23/Vol-III/1282 dtd. 17/03/2023 placed on M/S Cummins Power Pvt. Ltd, (VO ref. no. RE/PCC/AM/LR/GTE/Jul/2022-23-23/Vol-III/277 dtd. 2/08/2022, PO ref. no. RE/PCC/CM/PR/GTE/Aug/22-23/Vol-III/1282 dtd. 17/03/2023 placed on M/S Cummins Power Pvt. Ltd)		GTE&Ele	
	T2	Upgradation of Centralized AC system by replacing 3 numbers of TETR water cooled reciprocating chiller units by high efficiency 80TR water cooled screw chiller along with Cooling Towers		0.00	83.13		35(3)(a)	The reciprocating type chillers were already passed 20 years of operation. Due to ageing problem, the performance & efficiency was decreasing day-to-day and hence encountering numerous type of mechanical problem. Moreover, the OEM was unable to supply various spares for the mentioned due to obsolescence of the chillers. Hence, the Central AC plant was upgraded with higher capacity Screw type Chillers, which are more efficient and reliable.	PO ref. no. N/EPCC/AM/SR/CT/SMH-35/2021-22/130 dtd. 28/04/2021 & N/EPCC/AM/PR/CT/SMH-35/2021-22/508 dtd. 21/12/2021 placed on M/S Blue Star Limited (Annexure-2A)		SPC	It is HSD/A type work.
	T3	Medium Volt. Control Centre(MVCC) (415 V, 11 KV Line for intake pump house		0.00	16.00		35(3)(d)	The work was replacement work of the old asset. The part of the 11 KV / 415 V line was replaced for smoothness and reliability of the line.	"RE/PCC/EL/MTCE/Vol-III/2020-21/217 dtd. 04/01/2021 placed on M/S		LS&WD	Pl confirm whether the work is replacement work of the old asset so that it can be allowed under 35(3)(d) ?
		Total (A)		-	185.03							
		Add Cap for WARD			-							
		BALANCE CAPITALISED WARDS										
	1	MAJOR CAPITALISED WARDS		0.00	158.10							
		Total (B)		-	158.10							
		Grand Total (A+B)			339.89				-			

In case the project has been completed and spares already been admitted under any tariff as details (s) in the period column 3 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority) Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of tariff period 2019-024.
In case of re- capitalisation of assets separate details to be furnished at column 12,13 and 14 (after the original book value and year of capitalisation of such assets to be furnished at column 3) Where de-capitalised has not been finalised, it may be left blank (separately).
Where any asset is not dedicated acknowledge the same shall be treated as de-capitalised during the year one original value of such asset to be shown at col. 5, and insurance value if any, year of its capitalisation to be mentioned at column 8.
Justification against each asset of capitalisation on ground on a specific regulations under which claim has been made and the necessity of capitalisation of that particular asset.
Fill the form in chronological order that was is along with detailed justification closely bringing out the necessity and the benefits accruing to the beneficiaries.
In case initial spares are purchased along with any equipment, then the cost of such spares would be capitalised separately e.g. Rotor- 50 Crs. for 04 spares =50 Cr.

(Rajkonwar)

As per form 9 (B)	185.10
Spares as per form 9 (C)	158.80
De-capitalisation (D)	75.37
Reversal (E)	-
Total as per books	982.93

Capital spares as per form 9	0
Total as per 9 (B)	803.93
Change in Gross block =	803.93(B)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : AGARTALA GAS BASED POWER STATION

COD: 4/1/2002

For Financial Year: 2022-23

PART – I , FORM-9

Sl. No.	Head of Work/Equipment	Actual Expenditure (₹ Lakhs)	Un-discharged Liability included in col. 3	Cash basis (in Lakhs)	Add/ (Deduct) col. 4 to col. 3	Regulation under which claim is made	Justification	Admitted Cost by the Commission, if any	Decision	Commercial Comments
1	2	3	4	5=(3+4)	6	7	8	9		
ADD CAP EXPENSES ADMITTED BY CERC										
1	Comprehensive Rotor Inspection (CRI) and Compressor Rotor Rejuvenation & (CRR) of WH Gas Turbine Unit-1	0				35(3)(c)	Due to delay for covid situation, the job could not be able to completed within this financial year. The job is completed in the month of Jan-Aug, 2024 i.e. FY 2024-25. But, the CRRI / CRI cut off cost of Unit # 2, which is mobilized at IDT Unit # 1, shall be submitted to this petition 2024-29.	PO & letter of no. NEEPCO/AGBP/WORKS/2014-15/Vol-II/6705 dtd. 26/05/2023 placed to M/S IHI, Japan (Annexure-III)	1,031.00	ETA/Act	Advanced bill completion and for this petition along with invoice No. the proposal is not to be submitted. Cost work out is (1000-1031.850 =168.24 lakh)
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT OPERATION AND EXTENSION OF LIFE										
1	220K & 10K OTHER DET TURBINE(COMPRESSOR ROTOR REFURBISHMENT) original value refund & 2 unit installed at GT unit #2		0.00	2,081.85		35(3)(d)	Details of 220K & 10K As per inspection scheme of OEM, M/s Mitsubishi Corporation, Japan, vide its 220K & 10K have to mark code refurbishment and completion of the major inspection or replacement of turbine rotor of Gas Turbine is necessary or to ensure the desired purpose of the turbine after 1 (one hour) basis. This schedule for the unit of the unit was accordingly, NEEPCO had placed an Order Vide NEEPCO/AGBP/WORKS/14-15/Vol-II/6705 dt. 26/05/2023 to M/s IHI, Japan for 220K & 10K of Frame 9E/1 Gas Turbine Model M7A manufactured by Toshiba Hitachi along with procurement of consumables Gas Turbine Rotor in 2023. The 2 (two) no. Turbine Rotor was installed in Gas Turbine# 1 in early 2005 and the original Rotor removed from Gas Turbine Unit # 1 was sent for repair for 220K and 10K in Aug' 2005 and it was received in Nagasaki in October' 2023. After 220K and 10K only Rotor was installed in Gas Turbine # 1 in June – July 2024. The Rotor removed from Gas Turbine Unit # 2 was sent for repair for 220K & 10K in the year 2006 and the same was received in Japan in Feb' 2008. After 220K & 10K major only Rotor was received in May' 2008 and it was installed in the Turbine Unit # 2 in March – April' 2023. The original Rotor from the Unit # 1 was sent to Japan for 220K & 10K in July' 2023. After 220K & 10K the refurbished Rotor was received in (GBP) in Mar' 2024 and it was to be put in the Turbine Unit # 2 in July – August' 2024. The Rotor opening and have the BKE # 1 has been completed in operation, accruals, the contract is closed in June – August' 2024.	PO & MOU ref. no. NEEPCO/AGBP/WORKS/2014-15/Vol-II/6705 dtd. 26/05/2023 placed on M/S IHI, Japan (Annexure-III)		ETA/Act	As per CERC (Fifth Amendment) Regulations, 2019 (Petition No. 168/GT/2019), major inspection of the gas turbine generator, Rotor, its services and Compressor Rotor Refurbishment of the gas turbine were to be allowed for the purpose of the 2019-24 tariff period. Hence, the expenditure incurred in 2022-23 for the same work?
2	Generator Overhauling of WH GTG Unit # 1 alongwith GCB refurbishment		0.00	114.03		35(3)(c)	Gas Turbine generator and its spares have electrical life. For sustained performance of the Gas Turbine Generator, it is necessary to carry out Major Overhauling of the Generator under Technical advisory of OEM and to replace worn parts which have completed their lives. By doing this the life of the Gas Turbine Generator of WH Gas Turbine is also lifted.	PO & MOU Mitsubishi Corporation vide ref. no. NEEPCO/AGBP/PEM/2015-16/GEN/01/360 dtd. 13/08/2015 & amendment order no. ref.NEEPCO/AGBP/PEM/2015-16/GEN/01/1 dtd.09/04/2019		PCM	Observation certificate is required from OEM.
3	Augmentation of Double-Integrated valve for Mechanical Relay of Gas Turbine Governors		0.00	30.00		35(3)(c) & 35(3)(d)	1) Existing solid state Relays are old obsolete and have already been overstayed for their 20 years. It is essential to ensure sensitivity, reliability and speed by replacing old obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. [As per Central Electricity Authority (Grid Standards)Regulations, 2010, issued vide no.CEA/GRID/01/CEA/2010 dated 30/09/2010 and subsequent Amendments, 2013, 2019 and 2021 and Grid Code, 2023 dated 30/08/2023 vide Gazette No. 4915, 2023 (Annexure-I)] the protection relay shall be numerical type and communication protocol shall be as per IEC-61850 Ed-2 version standards. 4) Note under "All new relays" under "Including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbances and any other data relevant to the case, use of huge for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and as required Regional Power Committee". 5) CPI/Assessment/No evidence for this extension has already submitted.	PO ref. no. NEEPCO/AGBP/TURBINE/2021-22/0003-03/5992 dtd. 22/08/2022 placed to M/S Kinetic Engineering Industries (Annexure-IV)		PCM	Observation certificate is required from OEM.
4	Upgradation of SCADA (ABT) Energy Management System software with high- end server		0.00	29.74		35(3)(c)	Server suite: With all the systems integrated above system SCADA & ABT software has PME-2008 of Schneider, Server system is upgraded to middleware SCADA & ABT software to PME-2020 of Schneider.	PO ref. no. NEEPCO/AGBP/TURBINE/2021-22/0003-03/5992 dtd. 22/08/2022 placed to M/S		CE	Observation certificate is required from OEM.
5	Upgradation of DCS system of Mark-I to Governor of GTG-1		0.00	108.21		35(3)(c)	In-O Add DCS comprised 25 nr operation & spare support was not available. Therefor vibrating was never difficult due to obsolescence as a	PO ref. no. NEEPCO/AGBP/WORKS/2014-15/0013/01 dtd. 13/01/2015 placed to M/S Mitsubishi (Annexure-VI)		CSL	Observation certificate is required from OEM.
6	Upgradation of PLC Based Annunciator system in GM Plant		0.00	39.98		35(3)(c)	Microassembly (Radiant) PLC, SLC-500 completed 25 yr operation. Spare support was not available.	PO ref. no. NEEPCO/AGBP/WORKS/2021-22/0004-05/5997 dtd. 04/08/2021 placed to M/S Samyak India Pvt. Ltd.(Annexure-III)		CAI	Observation certificate is required from OEM.

10	Technical Advisory Service (TAS) of GTG		0.00	281.21			Gas Turbine and its spares have definite life. For successful performance of the Gas Turbine it is necessary to carry out Turbine Inspection and major Overhaul inspection of the Gas Turbine under Technical services of OEM and for replacement of life expired / non-reparable parts. By virtue of the life of the Gas Turbine is extended.	WO ref. no. MDWC/WO/2021-22/E/01-22/Pt-II/3/542 dtd. 11/05/2021 placed on M/S MG spare (Annexure-III)		0.00Lacs	Expenditure for major overhauling of GT/GTG spares. To be booked accordingly. To be shown in Exclusion.
11	Renovation of welding CO2 flooding system of GTG # 4		0.00	55.40		35(2)(x)	The Power Station has already checked 25 years of operation. The CO2 system is one of the vital integral components for safety of the equipment as well as Plant. CO2 Flooding system of WH Gas Turbines (M/S P.T.J.S.E. 4 were originally installed by M/S GHURS FIRE Company, UK during commissioning of WH make Gas Turbine units under package of ers. Japan and since then no major modification / repairing was taken place. The system exert supervising instructions, and spare parts were no longer available in the market. Despite correspondence, CHURCH FIRE Company did not issue relevant regarding spares and with technical instructions. We had purchased their material as proven spares and service document enclosed. To address these issues, M/S Pitampura E corporation has been awarded the contract for: - Renewal of the CO2 Flooding System - Restoration of the safety fe - Upgradation obsolete / missing system components	PO placed on M/S Pitampura E [illegible] dtd. 11/05/2021 placed on M/S [illegible] dtd. 31/03/2021 (Annexure-IV)		0.00	This year a requirement of CO2 fire fighting system is installed/ renewable the system that it has been old.
12	3PC x 600 kVA, 11/0.433-0.250 V dry-type distribution transformer for mains supply feeder.		0.00	11.84		35(2)(x)	The life of the installment has already completed.	Draft Contract no. 4/DMC/[illegible] placed on M/S [illegible] dtd. 11/05/2021 (Annexure-V)		0.00Lacs	
Total(A)			-	3,764.75					1,364.66		
Add Lap for WAP(-)				-							
MAJOR CAPITALISED SPARES											
1	MAJOR CAPITALISED SPARES		0.00	201.53							
Total (C)			-	201.53							
Grand Total (A+B)			-	3,966.27					1,501.66		

In case the proved has been completed and has already been admitted under any tariff notification for the years for column 9 giving the year as admitted for the purpose of tariff determination already taken by / name of the authority/petition/case copy of the tariff Order).

The above information needs to be furnished separately for each generator of tariff period 2019-24.

In case of life capitalisation of assets separate details to be furnished at course 1.0.0 and 4. Further the original asset value and year of capitalisation of such assets to be furnished in column 8.Where details are not available/not apply it reasons to be shown separately.

Write in any event or declared circumstances the same shall be treated as [illegible] planned during that year and original value such case to be shown as nil. 9. And if applied value if any , year of its capitalisation to be furnished in column 8.

Add Rs/cm against each case/ of capitalisation claimed on appeals to regulations under which claim has been made , and the necessity of capitalisation of that particular asset.

Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and measures for accruing to the beneficiaries.

In case initial spares are capitalised assets with/or equipment, then the cost of such spares should be excluded while calculating (e.g. Rs/cm- 50 Cr). Also please -50 Rs.

(Petitioner)

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
Total as per books	3,776.99

Change in Gross block in books 3,238.99

Petition No. 332/GT/2020 (Suo-Motu) Page 51 of 51

Petition for Approval of Additional Capitalization after COD

Name of the Petitioner: NORTH EASTERN ELECTRIC POWER CORPORATION LTD. PART - I, FORM-9

Name of the Generating Station: ASSAM GAS BASED POWER STATION

COD: 4/1/1998

For Financial Year: 2020-21

Sl. No.	Head of Work/Equipment	ACE Claimed (Rs. Lakh) Approval Needed (Yes/No)	Un-discharged Liability included in col.5	Cash basis (Rs. Lakh)	IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any	Variation	Comments/ Commercials
1	2	3	4	(3+4) 5	6	7	8	9			
ADD CAP EXPENSES ADMITTED BY CERC											
	Sub Total										
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND BETTERMENT OF LIFE											
1	RE-PLACEMENT OF OLD EXISTING 245 KV CURRENT TYPAN TORMER OF 200 MV SWITCH YARD		0.00	220.00		25(1)(iii)	1) As per "Central Electricity Authority (measures and conditions of licence) Regulations, 2006" and subsequent amendment, the accuracy class for tariff metering core shall be equal to 0.2S or better. PS for differential protection and 5P20 for other protection. The notifications of CEA issued vide ref. CEA/GO(12)-1562/2018-DPR Division dtd. 23/10/2017 is very strictly to be observed. 2) The accuracy class of our existing old BTRUL make CTs for metering core is 0.5 and already exposed more than 25 years. 3) Moreover, as per CEA guidelines issued vide ref. 23/Misc./TPR/A.T.E/Lt/2015/905 dtd 07.08.2015 , units above 15 years old qualify for Mid Life R&M while whereas units above 25 years (as on 31.3.2017) qualify for considering R&M works for Life Extension. The copy of CEA regulations 2006 and guidelines are enclosed for reference.	RD ref. no. NEEPCO/A&E/PP/PMD&M/CEA-01/2020-21/JR1/246, 25/02/2021 addressed to M/s Overlay Engineering (India) Limited, Chandra and PO ref. no. NEEPCO/A&E/PP/PMD&M/CEA-01/2020-21/JR2/dtd. 03/03/2021 addressed to M/S Overlay Engineering (India) Ltd, Kolkata (Annexure-III)			CEA notifications to be attached in the Petition
2	Supply, Installation Testing & Commissioning of Standalone Disturbance Recorder & Event Logger		0.00	58.75		25(1)(iii)	1) As per Central Electricity Authority (Grid Standards)(Regulations 2010 issued vide per CEA/TETS/MISC/01-2006/CEA dtd. 30.06.06 under notification No. 43/10, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. "All operational data, including disturbance recorder, event logger reports, for analysing line grid incidents and grid disturbance, any other data which in the view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within forty-five minutes to the Regional Load Despatch Centre and concerned Regional Power Committee". 2) Moreover, as per CERC regulations "Recording Instruments such as Data Acquisition System/ Disturbance Recorder/Event Logging Facilities/Fault Locator shall be provided and shall always be kept in working condition. In the event of non-recording of dynamic performance of the system, All users, SPTOs and RTU shall provide all the requisite recording instruments and shall always keep them in working condition." As such to comply with the CERC regulations, order has already been placed.	RD ref. no. NEEPCO/A&E/PP/PMD&M/Extension-I/CEA/2020-21/JR1/dtd. 03/03/2021 & NEEPCO/A&E/PP/PMD/CEA-01/2020-21/JR1/dtd. 03/03/2021 placed to M/S Overlay Engineering (India) Ltd, Kolkata (Annexure-III)			CEA notifications/Regulations to be attached in the Petition
4	Upgradation of SPHAS System of Module#1_ST/GT1		0.00	201.74		25(2)(iv)	Module#1 has completed 25-yr unit life in operation now is obsolete analytics and other components.	RD NEEPCO/A&E/PP/CC&I/T-dlly/2020-21/JR1/dtd. 30/03/2021 placed to M/S TAI Engineering & Trading Co. (Annexure-IV)			
6	Service for COH of GT#1		0.00	561.46		25(2)(iv)	Gas Turbine and its spares have attained the rated/designed performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	RD ref. no. NEEPCO/WORKS/OP/2020-21/JR-648/A&E dtd. 30/11/2020 placed to M/S GE GTS (Annexure-V)			

Dated

8	Renovation of existing CO2 flooding system at GTG 1 & 2		0.40	82.45		20675(e)	The Power Station has already crossed 25 years of operation. The CO2 system is one of the vital integral components for safety of the equipment as well as Plant. CO2 Flooding system of MHI Gas Turbines Unit # 1,2,3 & 4 were originally installed by M/S GHUSS India company, UK during commissioning of MHI make Gas Turbine units under patronage of MHI, Japan and since then no major modification/ repairing was taken place. The systems were experiencing malfunctions, and spare parts were no longer available in the market. Despite correspondence, GHUSS India Germany did not responded regarding spares and repairs check-ups. Furthermore, MHI had expressed their inability to provide spares and services (document enclosed). To address these issues, NTPC Limited & Associates has been awarded the contract for: - Renewal of the CO2 Flooding System - Automation of the system - Maximum utilization of existing system components	PO placed on M/S Tenpiao & Associates, Delhi vide no. HEE/SCON/GBR/CO2 (NHCT 1)/24-JAN/2023-30/7778 dtd. 30.03.2023 (Annexure-IV)			No year of installation of CO2 fire fighting system is available from the records. However it was more than 25 years before
9	Supply, installation, testing & commissioning of 15 KLD STP		0.00	48.77		20675(f)	Installation of STP in a power house area as per statutory requirements	The PO was placed to M/S Ram Devi Jindal Sahil services vide letter no HEE/C-3(116)/19963/4709 dtd. 05/06/2023 (Annexure-V)				
10	Spares for CSE of GTG 8		0.00	148.00		20675(h)	Gas Turbine and its spares have definite life. For successful performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	PO vide no. HEE/1523/PAC/BTG/P/21/2023-24/PO 8(8)/330 dtd. 18/12/2023 (Annexure-VI) M/s xxxxx			These should be claimed under capital spare.
11	M / S DH of Reheater & Evolter of GTG 1 #3		0.00	77.05			The overhauling of Generator & Exciter was carried out as per the guidelines of OEM for the extension of the equipment. Moreover, the stator winding temperature was observed in higher side.	NIO-NIT no. HEE/SCON/3 MS/BTM 1/23-24/ BC/3501-20/MS dtd 25/01/2023 placed to M/S GHB LLC (Annexure-VII)			Expenditure at Annual OH should be of O&M nature, to be included in the exercise.
	Total (I)		-	1,187.09					-	-		
	Add Cap for WMRO			40.77						358.00		
	MAJOR CAPITALISED ITEMS											
1	MAJOR CAPITALISED ITEMS		0.00	715.36								
	Total (II)		-	715.36					-			
	Gross Total (I+II)			1,992.47					-			

(i) Date the project has been completed and assets has already been admitted under reg 9(3) notification(s) in the past to volume 2 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the Authority)(Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each period of such period 22-23-24

In case of de-capitalisation of assets explicit details to be furnished at column 1,2,3 and 4 Further the original book value and year of capitalisation of such assets to be furnished at column 4 (Fill less De-capitalised as mentioned at col.no. 8

Where any asset is mistimed unscheduled this some shall be treated as one published during that year and original as book such asset to be shown at sel. 3. And shifted value if any, year of its capitalisation to be mentioned at col.no. 6

Justification against each head of capitalisation should be specific to regulations under which claim has been made, and the necessity of capitalisation of that particular asset.

(i) If the item in proceedings under year was along with detailed justification clearly bringing out the necessity and Rationality according to the benefit claimed.

In case initial spares are purchased along with any equipment, then the cost of such spares should be included especially e.g. Rotor, BC Dia, Refrigerator, Kilns

(Petitioner)

As per form 9 (5)	1,992.47
Deduction as per form M-II	709.05
Disallowance (if any)	449.01
Remark (if)	
Total as per BR	1,058.42

Capital assets capitalised in Books (a)	(213.55)
Total as per 5 (5)	1,058.42
Change in Gross Block in Books	1,271.97

This is negative as this was capitalised in Books in FY-2020-21 but used in FY-2023-24

PART-I
FORM-10

Financing of Additional Capitalisation

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.									
Name of the Generating Station :	ASSAM GAS BASED POWER STATION									
Place (Region/District/State):	North Eastern Region		District: DIBRUGARH		State: ASSAM					
Date of Commercial Operation :	4/1/1999									

(Amount in Rs Lakh)

	Actual					Admmited				
Financial Year (Starting from COD)^1	Year 1	Year 2	Year 3	Year 4	Year 5 & so on	Year 1	Year 2	Year 3	Year 4	Year 5 & so on
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipment										
Financing Details										
Loan 1										
Loan 2										
Total Loan										
Equity										
Internal Resources										
Others (pl. specify)										
Total										

Note :

1. Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent Financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per Form 7 or 8 whichever is relevant.

Petitioner

NOT APPLICABLE

PART-I
FORM-17

CALCULATION OF DEPRECIATION

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM
Date of Commercial Operation :	4/1/1999

Note :

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.

(Petitioner)

PART-I
FORM-12

STATEMENT OF DEPRECIATION

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station :	ASSAM GAS BASED POWER STATION		
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM		

(Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Remarks
Opening Capital Cost	154,867.66	154,570.93	156,792.07	158,856.35	158,907.90	161,968.78	
Closing Capital Cost	154,570.93	156,792.07	158,856.35	158,907.90	161,968.78	162,690.27	
Average Capital Cost	154,719.30	155,681.50	155,824.21	157,882.12	160,238.34	162,329.53	
Land Value	150.17	150.17	150.17	150.17	150.17	150.17	
Rate of Depreciation%							
Gross Block excluding land	**154,669.13**	**155,531.33**	**155,674.04**	**157,531.95**	**160,088.17**	**162,179.36**	
Depreciable Value	139,112.21	139,978.20	141,006.64	141,778.76	144,079.35	145,961.42	
Balance useful life at the beginning of the period	5.92	4.92	3.92	2.92	1.92	0.92	
Cumulative Depreciation upto previous year	121,117.33	123,736.72	125,985.70	129,338.16	133,495.00	138,780.41	
Remaining Depreciable Value	17,994.88	16,241.48	15,020.93	12,440.60	10,584.35	7,181.01	
Depreciation (for the period)	**3,039.68**	**3,301.11**	**3,831.87**	**4,260.48**	**5,512.68**	**7,805.44**	
Depreciation (Annualized)	**3,039.68**	**3,301.11**	**3,831.87**	**4,260.48**	**5,512.68**	**7,805.44**	
Cumulative Depreciation at the end of the period	124,157.01	127,037.83	129,817.57	133,598.64	139,007.68	146,585.85	
Less: Cumulative depreciation adjustment on account of undischarged liabilities deducted as on 01.04.2009/Station COD	-	-	-	-	-	-	
Less: Cumulative depreciation adjustment on account of decapitalization	420.29	1,052.13	479.41	103.64	227.27	263.18	
Net Cumulative Depreciation at the end of the period	**123,736.72**	**125,985.70**	**129,338.16**	**133,495.00**	**138,780.41**	**146,322.68**	

1. In case of details of FERV , give information for the applicable period.

(Petitioner)

15 16-24
16 17-25
17 16-25
18 17-26
19 16-26
20 17-27
21 16-27
22 17-28
23 16-28
24 17-29
25

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges1

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER PLANT

Sl. No.	Month	Unit	2018-2019					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	42620.24		42013.17		43358.02	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	42620.24		42013.17		43358.02	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	42620.24		42013.17		43358.02	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	310130180		323545857		325786652	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	310130180		323545857		325786652	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	Total Transportation Charges (9+/-10-11)	**(Rs.)**	**0**		**0**		**0**	
13	Total amount Charged for Gas supplied including Transportation (8+13)	**(Rs.)**	**310130180**		**323545857**		**325786652**	

14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	7276.59		7701.06		7513.87	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	8906.000		9191.000		9185.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	**7496.304**					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9094.054477					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART-I
FORM-16

Details of Source wise Fuel for Computation of Energy Charges

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER PLANT

Sl. No.	Month	Unit	2019-2020					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	35920.95		45810.33		36954.16	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	35920.95		45810.33		36954.16	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	35920.95		45810.33		36954.16	
6	Amount charged by the Gas Company (Transportation Charge Included)	(Rs.)	238264768		337254615		268770187	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	238264768		337254615		268770187	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	Total Transportation Charges (9+/-10-11)	**(Rs.)**	**0**		**0**		**0**	
13	Total amount Charged for Gas supplied including Transportation (8+13)	**(Rs.)**	**238264768**		**337254615**		**268770187**	

14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	6633.03		7361.98		7273.07	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9196.000		9151.000		9224.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	**7113.674**					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9187.348995					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges:

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER PLANT

Sl. No.	Month	Unit	2020-2021					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	41808.61		38070.40		42087.62	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	41808.61		38070.40		42087.62	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	41808.61		38070.40		42087.62	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	174784232		155635303		178440918	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	174784232		155635303		178440918	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	Total Transportation Charges (9+/-10-11)	**(Rs.)**	**0**		**0**		**0**	
13	Total amount Charged for Gas supplied including Transportation (8+13)	**(Rs.)**	**174784232**		**155635303**		**178440918**	

14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	4180.58		4088.09		4239.75	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9189.000		9157.000		9157.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	**4172.129**					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9167.969192					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges:

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER PLANT

Sl. No.	Month	Unit	2021-2022					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	41935.74		42437.94		45472.10	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	41935.74		42437.94		45472.10	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	41935.74		42437.94		45472.10	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	275862808		288497849		314090067	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	275862808		288497849		314090067	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	**(Rs.)**	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+12)**	**(Rs.)**	**275862808**		**288497849**		**314090067**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	6578.23		6796.11		6907.31	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9153.000		9136.000		9211.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	6765.339					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9167.755478					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for COST station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges:

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER PLANT

Sl. No.	Month	Unit	2022-2023					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	37661.75		38451.99		40283.31	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	37661.75		38451.99		40283.31	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	37661.75		38451.99		40283.31	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	751499825		817463656		830833143	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	751499825		817463656		830833143	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	Total Transportation Charges (9+/-10-11)	**(Rs.)**	**0**		**0**		**0**	
13	Total amount Charged for Gas supplied including Transportation (8+12)	**(Rs.)**	**751499825**		**817463656**		**830833143**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	19953.93		21259.33		20624.75	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9191.000		9256.000		9112.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	**20617.331**					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	**9185.132139**					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART 1
FORM- 18

Non-Tariff Income

Name of the Petitioner North Eastern Electric Power Corporation Ltd
Name of the Power Station ASSAM GAS BASED POWER STATION

In Lakhs

Sl. No	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Interest from Employees on Loan	0.59	1.11	1.47	1.82	0.82	
2	Sale of Tender forms	1.28	1.02	0.35	0.24	0.00	0.04
3	Liquidated Damages	0.48	5.21	2.13	1184.13		1.16
4	Sale of Scraps	0.41	7.60	7.79	6.40	12.32	99.35
5	Transit Hostel Recovery	1.95	4.16	4.65	1.45	2.62	1.09
6	Other Misc. reciepts	0.35	0.02	1.36	0.47	0.02	
7	Grant In Aid	11.11	9.26	26.72	13.96	8.91	2.70
8	Recovery of Rent from employees	2.82	3.23	2.89	2.38	2.54	2.40
9	Recovery of Rent from other	1.67	2.17	1.34	1.63	1.44	4.32
10	Interest Income- Comp. advance	0.40	0.43	0.32			
11	Interest Income- Furniture. advance	0.10	0.14	0.12			
12	Contra for Lease Expenditure		38.49	53.61	71.83	66.56	61.77
13	Liability Written back	37.49	210.25		0.74	0.20	43.73
14	Other Recoveries from Contractor			0.10			
15	EMD Forfeited			0.21			
16	Profit on sale of Fixed asset	0.07		0.15		0.00	1.86
17	Sale of Energy Saving Certificate					25.96	69.09
	TOTAL	58.60	283.11	103.22	1285.07	121.40	287.51

(Petitioner)

PART 1
FORM- 19

Details of Water Charges

Name of the Petitioner
Name of the Power Station: North Eastern Electric Power Corporation Ltd

Amt in INR

Sl. No	Details of Water charges (excluding water cess)		Quantity allocated	Normative consumption at 85% PLF	Rate specified (as per govt. notification or agreement)	Spillage of water (in percentage)	Amount Claimed
	Name of source and quantity	Amount	Unit..				
1	River Buridihing, 2000000 CuM	10,00100.00 per year		1.2 CuM per MWH	same	10	5,000,500.00
2							
3							

PART 1
FORM- 20

DETAILS OF STATUTORY CHARGES

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

FY19-20

In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed	
1	Electricity Duty	7.67	42950569	445.84	Unit rate and Quantum to be provided by F&A Wing, AGBPS
2	Water Cess**			-	

(Petitioner)

Details of Statutory Charges

Name of the Petiotion: North Eastern Electric Power Corporation Ltd
Name of the Power station: ASSAM GAS BASED POWER STATION

FY20-21

In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed	
1	Electricity Duty	7.57	40449430	80.90	Unit rate and Quantum to be provided by F&A Wing, AGBPS
2	Water Cess**			-	

(Petitioner)

Details of Statutory Charges

Name of the Petiotion: North Eastern Electric Power Corporation Ltd
Name of the Power station: ASSAM GAS BASED POWER STATION

FY21-22

In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed	
1	Electricity Duty	7.38	38975181	77.75	Unit rate and Quantum to be provided by F&A Wing, AGBPS
2	Water Cess**			-	

(Petitioner)

Details of Statutory Charges

Name of the Petiotion: North Eastern Electric Power Corporation Ltd
Name of the Power station: ASSAM GAS BASED POWER STATION
FY22-23

In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed	
1	Electricity Duty	7.90	41013276	416.49	Unit rate and Quantum to be provided by F&A Wing, AGBPS
2	Water Cess**			-	

(Petitioner)

Details of Statutory Charges

Name of the Petiotion: North Eastern Electric Power Corporation Ltd
Name of the Power station: ASSAM GAS BASED POWER STATION
FY23-24

In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed	
1	Electricity Duty	7.9	72342208	197.04	Unit rate and Quantum to be provided by F&A Wing, AGBPS
2	Water Cess**			1.46	Unit rate and quantum to be provided by HOP Office, AGBPS

(Petitioner)

PART-I
FORM-D

Break-up of Construction/Supply/Service packages

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER STATION

1	Name/No. of Construction/Supply/Service Packages	Package A	Package B	Package C	....	Total Cost of all packages
2	Scope of works[1] (in line with head of cost break-ups as applicable)					
3	Whether awarded through ICB/DCB/Departmentally/Deposit Work					
4	No. of bids received					
5	Date of Award					
6	Date of Start of work					
7	Date of Completion of Work/Expected date of completion of work					
8	Value of Award[2] in (Rs. Lakh)					
9	Firm or With Escalation in prices					
10	Actual capital expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)					
11	Taxes & Duties and IEDC (Rs. Lakh)					
12	IDC, FC, FERV & Hedging cost (Rs. Lakh)					
13	Sub-total (10 + 11 + 12) (Rs. Lakh)					

Note:
1. The scope of work in any packages should be indicated in conformity of Capital cost break-up for the coal/lignite based plants in the FORM B to the extent possible. In case of Gas/Liquid Fuel based projects, break down in the similar manner in the relevant heads as per FORM C.
2. If there is package, which need to be shown in Indian Rupee and foreign currency (ies), the same should be shown separately along with the currency, the exchange rate and the date e.g. Rs 60 Cr + US$ 50m = Rs 390 Cr at US$=/rs 62 as on say 01.04.14.

"Not Applicable in case of AGBP"

(Petitioner)

Statement of Additional Capitalisation during five year before the end of useful life of the Project

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER STATION
COD 01.04.1999

In Lakh

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
1		Replacement of old Waukesha Gas Engine 12V275 GL of Unit-4 of GBS along with all auxiliaries like Air Cooled Heat Exchanger (ACHE),Fuel filter	1,981.29	0	1,981.29	0	25(2)(iii)	The reasons for replacement of old Waukesha Gas Engine with new higher capacity AT 12V 275GL+ Waukesha Gas Engine with its auxiliaries and enhancement of Gas Compressor capacity were as follows: 1. The Old Gas Engine was old and obsolete. 2. There was a design problem for which the engine power was not sufficient to drive the compressor. 3. To increase reliability of the Gas Booster Station (GBS) as well as the plant. 4. The Old Gas Compressors were unable to deliver and 4 units were put into service to run all the 6 numbers of Gas Turbines. There are four numbers of Gas Booster Station to cater service for supply preheated gas to the Gas Turbines. As per design philosophy, 3 GBS units are in running condition to run 6 numbers of Gas Turbines. As per the approval of the CERC the replacement of 3 (three) out of 4 (four) numbers of Gas Gas Engines were completed within 2015-16. The reason for not considering the 4th unit during 1st phase were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. There was good numbers of inventories for old Waukesha Gas Engines as well as Gas Compressors. If the replacement of the 4th Gas Engine would completed during 2015-16 to 2016-17, a hugh amount of capital would have been kept in unutilised condition. 3. If all the 4 units were considered for replacement during the period 2014-19 block, the capital cost infused for replacement of 4th GBS unit would have been loaded in the tariff during the period 2014-19 block. However, in this case, the cost impact on the tariff due to Add Cap infused would be for the period 2019-24 block. 4. So, replacement of Gas Engines in phase manner does not have any financial impact on the beneficiaries, rather distributed the expenditure of additional capital cost for replacement of Gas Engines in a segregated manner. In view of the above, honorable Commission is requested to allow the cost of replacement of Gas Engine and modification of compressor of 4th GBS unit as per actual expenditure basis.	15 YEARS
2		Revamping/modification of the Dresser-Rand Gas Compressor of GBS Unit-4	884.08	0	884.08	0	25(2)(d)		15 YEARS
		Up-gradation of 3700- series, BENTELY-NEVADA make Vibration monitoring system of GT-1 and GT-2.	103.00		103.00		25(2)(c)	Ref: such 3700 of M/S Bently-Nevada is obsolete. Spare support is not available. As such, upgradation of Vibration Monitoring System is essential for safety of the equipment. The OEM has issued obsolete certificate. Installation and commissioning in GT0 Unit # 1 on 19/06/2019 and GT0 Unit # 2 on 20/06/2019	15 YEARS

	Replacement of existing UPS with battery Bank for GT controllers and Online monitoring system.	119.79		119.79		25(2)(c)	1) Commission has already been admitted for the Year 2016-17 for an amount of Rs. 104.00 Lakhs and the works has already been completed in 2019-20. 2) The UPS system including Battery for GT controller and online monitoring system have commissioned in 1995. 3) As per guidelines of OEM, the life periods of Tubular Type (Microscopic Rubber) battery is 10-14 years and Pasted Type (Microscopic Rubber) is 5-7 years. 4)As per CEA guidelines issued vide no: 3/3/Misc./TRM/CEA/2015/RIS dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension.	15 YEARS
3	Construction of 20 MVAR Line Reactor	122.72	0	122.72	0	25(2)(c)	As per MOM between NERPC/NERLDC and NEEPCO for system stability of NER grid.	15 YEARS
4	Replacement of Tubular Lead Acid Battery 48 V TBS (OPZS) 500AH of PLCC system	30.21	0	30.21	0	25(2)(c)	1)The 48 V DC Battery bank and Caldyne make Battery Charger for PLCC had installed initially by PGCIL which was in service since commissioning of the plant (1995). Due to deteriorated condition of the 48 Volts Battery bank, it was advise in the 134th OCC meeting for replacement of the 48 Volts Battery bank. Moreover, the OEM suggested for replacement / degradation of the same. 2) As per CEA guidelines issued vide no: 3/3/Misc./TRM/CEA/2015/RIS dtd.27.08.2015, units above 15 years old qualify for Mid Life R&M works for Life Extension. Accordingly, it is necessary for replacement old battery bank for reliable operation of the system.	15 YEARS
5	Upgradation of protection system by replacing existing electro-magnetic relays with numerical relays	19.79	0	19.79	0	25(2)(c)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MISC/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	15 YEARS
6	Time Synchronization of RTU	2.81	0	2.81	0	25(2)(c)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MISC/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 2) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 3) It is necessity for time synchronisation for the safety and security of grid. 4) DPR/documentry evidence for life extension has already submitted.	15 YEARS
9	Gas Leakage System (Major Spares), New System	11.24	0	11.24	0	25(2)(c)	The system was old and obsolete. So, upgraded with new system.	15 YEARS
10	Replacement of Digital Voltage Regulator(DAVR) FOR STG II	18.35	0	18.35	0	25(2)(c)	The existing Unitrol-M AVR system of AEB was obsolete. The Spare support of the old system was not available. As such, to make the system reliable and avoid outages due to non-availability of the spares, the system is replaced with new DAVR. The OEM has issued obsolete certificate	15 YEARS
11	Vibration Monitering System STG-I and STG#3	129.17	0	129.17	0	25(2)(c)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	15 YEARS
12	Technical Advisory Services for Turbine Inspection of GT-II	74.38	0	74.38	0	25(2)(c)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS

13		MAJOR CAPITALISED SPARES FY19-20	3,378.00	0	3,378.00	0	35(1)(b)	Capital spares for enhance life of the plant	15 YEARS
14		Replacement of old existing hydraulic operated CB with new ABB make spring operated SF6 of Circuit Breaker	162.78	0	162.78	0	25(2)(C)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentary evidence for life extension has already submitted.	15 YEARS
15		Replacement of Fill Packs of Cooling Tower	91.54	0	91.54	0	25(2)(C)	Fouled fill packs of cooling tower was replaced to improve water distribution as well as to improve cooling tower efficiency. Improvement of cooling tower efficiency improves condenser performance and thereby efficiency of steam turbine improves.	15 YEARS
16		HMI REPACEMENT & Reinstallation including Custom duty	114.94	0	114.94	0	25(2)(C)	Server cum HMI of GT#5 was based on Windows-XP and of GT#6 was windows-2007. Service support and Anti-virus update for Windows-XP & 2007 was not available. HMI of GT#5 is replaced with windows-10 and GT#6 is upgraded to windows-10.	15 YEARS
17		Upgradation of HMI Mark Control system	9.44	0	9.44	0	25(2)(C)		15 YEARS
18		Vibration Monitering & Temperature Monitering System ST6R2	69.72	0	69.72	0	25(2)(C)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	15 YEARS
19		Vibration Monitering & Temperature Monitering System ST5R2	5.59	0	5.59	0	25(2)(C)		15 YEARS
20		Technical Advisory Services for MI with LGB and ABB inspection of BHEL supplied GT U # 5	82.41	0	82.41	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisory of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
21		Technical Advisory Services for MI with LGB and ABB inspection of BHEL supplied GT U # 6	148.49	0	148.49	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisory of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
22		5 Nos Haier Air Condition Outdoor	12.27	0	12.27	0	25(2)(C)	The cooling of the various control cards in DDC panels are essential to avoid any heat in the DDC panel due to heating and consequently to avoid any forced outages of the Gas Turbines. So, considering the urgency and as per Safety committee report, 5 (five) numbers of floor standing AC are installed in addition to the Centralised AC system. Installation of 5 numbers of vertical AC system makes the control system reliable and effective.	15 YEARS
23		MAJOR CAPITALISED SPARES FY20-21	2,478.00	0	2,478.00	0	35(1)(b)	Capital spares for enhance life of the plant	15 YEARS
24	FY19-24	Procurement of Transformer Oil filtration plant of capacity 6000LPH	17.94	0	17.94	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.	15 YEARS
25		Transformer filtration plant of capacity 1200LPH	4.25	0	4.25	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.	15 YEARS

26	Single chamber skid mounted type Transformer Oil Storage tank	7.46	0	7.46	0	25(2)(c)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. This is a part of Filtration Plant and necessity for 2MVA Aux. Transformer and same has already been procured for filtration of Transformer oil.	15 YEARS
27	245 KV 2000AMPS Outdoor Breaker for 220 KV Switch yard	82.95	0	82.95	0	25(2)(c)	1) As per CEA guidelines issued vide no. 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	15 YEARS
28	245 KV 2000AMPS Oilet Breaker for 220 KV Switchyard	43.71	0	43.71	0	25(2)(c)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	15 YEARS
29	VT PUMP Pump model: 400TE8C4 with accessories	8.79	0	8.79	0	25(2)(c)	Raw water is collected from the River Burhidihing by pumping water through vertical turbine pump having overall shaft length of 13.5 mtr. Due to low draft at wet river sump, life span of intake pump is very less and frequent breakdown take place after two years of operation. Replacement with new pump leads reliable operation as well as minimize O&M expenditure. Installation of new pump is much cost benificial than replacement of worn out parts.	15 YEARS
30	VT PUMP Pump model: 400TE8C4 with accessories	8.79	0	8.79	0	25(2)(c)	Do.	15 YEARS
31	Bulk acid tank	14.96	0	14.96	0	25(2)(c)	Bulk acid storage tank is required to store HCl, as required for regeneration of SAC resin. The existing old acid storage tank were replaced with new tanks for life extension.	15 YEARS
32	Fume Absorbed Acid tank	0.48	0	0.48	0	25(2)(c)	Part of bulk acid storage tank as stated above.	15 YEARS
33	DIGITAL VOLTAGE REGULATOR DAVR	19.41	0	19.41	0	25(2)(c)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 5	15 YEARS
34	DIGITAL VOLTAGE REGULATOR DAVR	1.18	0	1.18	0	25(2)(c)	Service for the above	15 YEARS
35	DIGITAL VOLTAGE REGULATOR DAVR	20.59	0	20.59	0	25(2)(c)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 6	15 YEARS
36	DIGITAL VOLTAGE REGULATOR DAVR	1.89	0	1.89	0	25(2)(c)	Service for the above	15 YEARS
37	CUMMINS ENGINES FOR GT UNIT#5 (INSTALLATION)	85.91	0	85.91	0	25(2)(c)	Due to dilution of Crank Case Lube Oil with Diesel, the major components like crankshaft, piston etc. of the Starting Diesel Engine got seized. The engine was 25 years old and the repair cost of the old engine is high. As such, it was decided to procure 1 (one) new Starting Diesel Engine.	15 YEARS
38	Upgradation of Centrifuged AC system by replacing 3 numbers of 70TR water cooled reciprocating chiller Units by high efficiency 80TR water cooled screw chiller along with Cooling Towers	88.19	0	88.19	0	25(2)(c)	The reciprocating type chillers were already crossed 25 years of operation. Due to ageing problem, the performance & efficiency was decreasing day-by-day and hence encountering various type of technical problem. Moreover, the OEM was unable to supply various spares for maintenance due to obsolence of the chillers. Hence, the Central AC plant was upgraded with higher capacity Screw type Chillers, which are more efficient and reliable.	15 YEARS
39	Medium Volt Covered Conductor(MVCC) IN 11 KV Line for intake pump house	15.40	0	15.40	0	25(2)(c)	The part of the 11 KV Intake line was converted to MVCC for protection and reliability of the line.	15 YEARS
40	MAJOR CAPITALISED SPARES FY21-22	400.00	0	400.00	0	35(1)(b)	Capital spares for enhance life of the plant	15 YEARS
41	CRR & CRI OF MHI GAS TURBINE/COMPRESSOR ROTOR(REFURBISHMENT) original rotor of unit # 5 and installed at GT unit # 2	2,606.76	0	2,606.76	0	25(2)(c)	As per recommendation of OEM, M/s Mitsubishi Corporation, Japan, either CRR-CRI (compressor rotor refurbishment and comprehensive Rotor inspection) or replacement of turbine rotor of Gas Turbine is necessary to obtain the desired output of the turbine after 1 lakh fired hours. This will enhance the life of the GT.	15 YEARS

47	Upgradation of Electro-magnetic relay to Numerical Relay of Gas Turbine Generators	34.95	0	34.95	0	25(2)(C)	1) Existing solid state relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/PPP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC 61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	15 YEARS
47	Upgradation of EMS (ABT) Energy Management system.	29.74	0	29.74	0	25(2)(C)	Server cum HMI of the system was windows server 2012 & ABT software was PME-2008	15 YEARS
44	DCS CONTROLLER SYSTEM	868.21	0	696.21	0	25(2)(C)	P-13 ABB DCS completed 25-yr operation & spare support was not available. Trouble sho	15 YEARS
45	PLC	26.55	0	26.55	0	25(2)(C)	Allen-Bradly (Rockwell) PLC SLC-500 completed 25 yr operation. Spare support was no	15 YEARS
46	Technical Advisory Service by MHI for GT#2	291.21	0	291.21	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the gas turb	15 YEARS
47	Renovation of existing CO2 flooding system of GT#3 & 4	55.40	0	55.40	0	25(2)(C)	The Power Station has already crossed 25 years of operation. The CO2 system is one of	15 YEARS
48	SITC of 630 KVA, 11/0.433 KV 3 phase distribution transformer for intake pump house	11.94	0	11.94	0	25(2)(C)	The life of the transformer has already completed.	15 YEARS
49	MAJOR CAPITALISED SPARES FY22-23	1,798.00	0	1,798.00	0	35(1)(B)	Capital spares for enhance life of the plant	15 YEARS
50	REPLACEMENT OF OLD EXISTING 245 KV CURRENT TTRANFORMER OF 220 KV SWITCH-YARD	222.95	0	222.95	0	25(2)(C)	1) As per "Central Electricity Authority (Installation and operation of Meters) Regulations, 2006" and subsequent ammendment, the accuracy class for tariff metering core shall be equal to 0.2S or better, PS for differential protection and 5P20 for other protection. The notifications of CEA issued vide no: CEA-GO-13-15/3/2019-DPR Division dtd. 13/12/2019 may kindly be referred. 2) The accuracy class of our existing old BHEL make CTs for metering core is 0.5 and already crossed more than 25 years. 3) Moreover, as per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. The copy of CEA Regulations 2006 and guidelines are enclosed for references. 4) Order has already been placed. 5) DPR/documentry evidence for life extension has already submitted.	15 YEARS
51	SITC of Standalone Disturbance Recorder & Event Logger	59.75	0	59.75	0	25(2)(C)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/PPP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. "All operational data, including disturbance recorder, event logger reports, for analysing the grid incidents and grid disturbance, any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 2) Moreover, as per CERC regulations "Recording Instruments such as Data Acquisition System/ Disturbance Recorder/Event Logging Facilities/Fault Locator shall be provided and shall always be kept in working condition in the ISTS for recording of dynamic performance of the system. All users, STUs and CTU shall provide all the requisite recording instruments and shall always keep them in working condition." As such to comply with the CERC regulations, order has already been placed.	15 YEARS
52	Fluke multifunction calibrater with Pump & Sensor	11.72	0	11.72	0	25(2)(C)	For onsite calibration of Control Valves, Positioner etc., Standard Calibrator with pump was not available.	15 YEARS
53	Upgradation of SWAS System of Module1_ST(#1	201.74	0	201.74	0	25(2)(C)	System has completed 25-yr and not in operation due to obsolete analyser and other components.	15 YEARS

54		Spares for CBI of GT# 6	361.49	0	361.49	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
55		Renovation of existing CO2 flooding system of GTG 1 & 2	55.46	0	55.46	0	25(2)(C)	The Power Station has already crossed 25 years of operation. The CO2 system is one of the vital integral component for safety of the equipment as well as Plant. Since, the CO2 system became old and obsolete, the system has been renovated and upgraded with new system.	15 YEARS
56		Supply, installation, testing & commissioning of 75 KLD STP	40.77	0	40.77	0	25(2)(C)	Installation of STP in a power house is as per statutory requirement.	15 YEARS
57		Spares for CBI of GTG 5	148.00	0	148.00	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
58		M I & OH of Generator & Exciter of GTG U # 5	77.00	0	77.00	0	25(2)(C)	The overhauling of Generator & Exciter was carried out as per the guidelines of OEM for life extension of the equipment. Moreover, the stator winding temperature was observed in higher side.	15 YEARS
59		MAJOR CAPITALISED SPARES FY23-24	306.10	0	306.10	0	25(1)(6)	Capital spares for enhance life of the plant	15 YEARS
Note			17,878.57		17,878.58				

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes

2. Justification for additional capital expenditure claim for each asset should be relevant to regulations under which claim has been made and the necessity of capitalisation of the asset.

(Petitioner)

PART-I
FORM-I

Details of Assets De-capitalized during the period

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
Region : NE Region **State:** Assam **District:** Dibrugarh

FY2019-20 — In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	35.76	1999	32.18	
2	Gas Booster Station	Additional Capital Expenditure	10.13	1999	9.12	
3	Gas Booster Station	Additional Capital Expenditure	999.67	1999	899.70	
4	Gas Booster Station	Additional Capital Expenditure	10.24	1999	9.22	
5	Sy.Gear Including Cable Connectio 100 Amps above	Additional Capital Expenditure	10.49	1999	9.44	
6	Sy.Gear Including Cable Connectio 100 Amps above	Additional Capital Expenditure	6.52	1999	5.87	
7	Steam Turbine	Additional Capital Expenditure	6.37	1999	5.73	
8	Steam Turbine	Additional Capital Expenditure	40.96	1999	36.86	
9	Steam Turbine	Additional Capital Expenditure	3.88	1999	3.49	
10	Steam Turbine	Additional Capital Expenditure	3.86	1999	3.47	
11	Spl. Tools & Plants	Additional Capital Expenditure	41.17	1999	37.05	
12	Furniture &Fixture	Exclusion	3.14	1999	3.14	
13	Other E.D.P mechines	Exclusion	2.98	1999	2.49	
		Total	**1175.17**		**1057.76**	

Net without exclusion	1,169.05	1,052.13

Note: Year wise detail need to be submitted.

(Petitioner)

FY2020-21

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	382.65	1999	344.39	
2	Gas Turbine	Additional Capital Expenditure	2.52	1999	2.27	
3	Gas Turbine	Additional Capital Expenditure	10.24	1999	9.21	
4	Gas Booster Station	Additional Capital Expenditure	48.39	1999	24.54	
5	Gas Booster Station	Additional Capital Expenditure	32.68	1999	18.38	
6	Sy Gear including Cable Connection	Additional Capital Expenditure	55.58	1999	50.03	
7	Fire-fighting Equipments	Exclusion	3.59	1999		
8	Gas Steam Turbine(O&M	Additional Capital Expenditure	23.96	1999	21.56	
9	Cooling Tower	Additional Capital Expenditure	3.35	1999	3.01	
10	Special Tools & Plants	Additional Capital Expenditure	7.33	1999	6.02	
11	Furniture &Fixture -Others	Exclusion	0.57	1999		
12	Other E.D.P machines	Exclusion	43.94			
		Total	**614.80**		**479.41**	
		Net without exclusion	610.64		479.41	

Note: Year wise detail need to be submitted.

(Petitioner)

FY2021-22

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	7.58	1999	6.80	
2	Gas Turbine	Additional Capital Expenditure	6.94	1999	5.97	
3	Gas Turbine	Additional Capital Expenditure	29.39	1999	25.26	
4	Gas Turbine	Additional Capital Expenditure	26.80	1999	21.99	
5	Gas Booster Station	Additional Capital Expenditure	9.19	1999	7.22	
6	Switchgear including cable connnection	Additional Capital Expenditure	42.69	1999	36.40	
7	Furniture	Exclusion	0.57	1999	0.57	
8	Celluler Phone	Exclusion	0.23	1999	0.18	
		Total	**123.37**		**104.39**	
		Net without exclusion	122.58		103.64	

Note: Year wise detail need to be submitted.

(Petitioner)

FY2022-23

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Temp.Building	Exclusion	44.90	1999	44.90	
2	Gas Turbine	Additional Capital Expenditure	10.43	1999	9.36	
3	Gas Booster Station	Additional Capital Expenditure	3.09	1999	2.60	
4	Gas Booster Station	Additional Capital Expenditure	10.48	1999	8.81	
5	Gas Booster Station	Additional Capital Expenditure	3.35	1999	2.81	

6	Gas Booster Station	Additional Capital Expenditure	17.89	1999	15.04	
7	Sy.Gear including Cable Connection	Additional Capital Expenditure	28.83	1999	-	
8	Gas Sream Turbine	Additional Capital Expenditure	208.31	1999	178.63	
	Gas Sream Turbine	Additional Capital Expenditure	3.66		3.19	
	Gas Sream Turbine	Additional Capital Expenditure	7.84		6.83	
	Fire Fighting Equipment	Exclusion	9.86		9.21	
	Survey Instruments	Exclusion	3.72		3.37	
	Ordinary Tools & Plants	Exclusion	1.12		1.11	
	Camp Equipment	Exclusion	1.10		1.10	
	Furniture &Fixture	Exclusion	3.11		3.03	
	Other E.D.P machines	Exclusion	8.84		8.11	
	Office Equipments	Exclusion	2.70		2.14	
	Hospital Equipments	Exclusion	2.57		2.01	
	Drawing equipments	Exclusion	0.28		0.28	
	Miscellaneous Equipments	Exclusion	1.97		1.89	
	Audio Visual Equipments	Exclusion	5.13		4.90	
	Bi-cycle	Exclusion	0.15		0.15	
	Software	Exclusion	0.85		0.85	
		Total	**380.15**		**310.32**	
		Net without exclusion	293.86		227.27	

Note: Year wise detail need to be submitted.

(Petitioner)

FY2023-24

in lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	156.79	1999	141.03	
2	Sy.Gear including Cable Connection	Additional Capital Expenditure	72.65	1999	64.64	

3	Gas Sream Turbine	Additional Capital Expenditure	65.74	1999	57.51	
4	Disposal	Exclusion	150.42			
		Total	**445.61**		**263.18**	
		Net without exclusion	295.18		263.18	

Note: Year wise detail need to be submitted.

(Petitioner)

PART-I
FORM-J

Reconciliation of capitalisation claimed vis-à-vis books

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1999

in lakhs

Sl No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Closing Gross Block as per IND AS	177206.11	179789.71	180752.22	185989.10	187060.43
2	Add/Less: Adjustments*	0	0	0	0	0
3	**Closing Gross Block as per IGAAP**	177205.11	179789.71	180752.22	185989.10	187060.43
4	Opening Gross Block as per IND AS	171294.63	177206.11	179789.71	180752.22	185989.10
5	**Add/Less: Adjustments***	0.00	0	0	0	0
6	Opening Gross Block as per IGAAP	171294.53	177206.11	179789.71	180752.22	185989.10
7	**Total Additions as per books (G = 3 - 6)**	5911.49	2583.60	962.51	5236.88	1071.33
8	**Less: Additions pertaining to other Stages (give Stage wise breakup)**	0	0	0	0	0
9	**Net Additions pertaining to instant project/Unit/Stage**	5911.49	2583.60	962.51	5236.88	1071.33
10	**Less: Exclusions (items not allowable / not claimed**	714.90	1477.64	528.85	1660.77	193.55
11	**Net Additional Capital Expenditure Claimed (on accrual basis)**	5196.59	1105.95	433.62	3576.12	877.78
12	**Less: Un-discharged Liabilities (as per IGAAP)**	1385.24	1385.24	0	0	0
13	**Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works (as per IGAAP)**	0	0	1385.24	0	0
14	**Net Additional Capital Expenditure Claimed (on cash basis)**	**3811.35**	**-279.29**	**1818.86**	**3576.12**	**877.78**

Note: (1) Form is to be certified by the Auditor and Certificate issued as per the guidelines prescribed by their governing body.
(2) Reason for exclusion of any expenditure shall be given in Clear terms. *Break-up to be specified.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1998

FY19-20

In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Renovation of A type Quarters		0.00	64.99		NEEPCO/AGBP/CWC/T-2/2018-19/516 DTD 29.05.2018
2	Renovation & Modernisation of Bank Building		0.00	11.26		NEEPCO/AGBP/CWC/T-92/2018-19/2091 DTD 13.02.2019
3	R & M OF A-Type Quarter NoA-49,50,55,57		0.00	65.64		NEEPCO/AGBP/CWC/T-2/2018-19/544-47 DTD 01.06.2018
4	Construction of Class Room at VKV,AGBP		0.00	8.55		NEEPCO/AGBP/CWC/T-2/2019-20/1231 DTD 28.10.2019
5	Modification & Extension of Toilet & Urinal adjacent with dinning hall of GH-II		0.00	11.59		NEEPCO/AGBP/CWC/T-2/2018-19/2048 DTD 11.02.2019
6	Godrej Unwind Chair		0.00	0.30		
7	Godrej Personal Locker		0.00	1.17		
8	Godrej Chair & Table		0.00	4.18		
9	Misce Equipment		0.00	0.51		
10			0.00	0.10		
11	Misce Equipment		0.00	0.16		
12	Kirloskar MonoblockWater Pump Set 2 Nos		0.00	1.12		NEEPCO/AGBP/UWC/T-3/19-20/111 DTD 09.07.2019
13	Kirloskar MonoblockWater Pump Set 10.0HP		0.00	0.77		NEEPCO/AGBP/UWC/T-3/19-20/317 DTD 16.12.2019
14	Panasonic AC		0.00	1.73		
15	4 nos Water Purifier		0.00	0.49		
16	Purchase of Motorolla		0.00	3.46		
17	Piston & Rod Assembly 23 "HOS	-	0.00	29.00		
18	Capitalisation of Major Spares	-	0.00	4.00		NEEPCO/AGBP/PEM/O&M-08/19-20/80 DTD 29.05.2019
19	Capitalisation of Mandotory Spares for R &M Unit-IV	-	0.00	34.00		

20	Installation Charges of Gas Leakage System	-	0.00	1.00		
21	Technical Advisory Services for Turbine Inspection of GT-4		0.00	74.38		
22	Capital Spares not utilized		0.00	396.51		
			Total	714.90		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed.
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Company : ***NORTH EASTERN ELECTRIC POWER CORPORATION LTD.***
Name of the Generating Station : ***Assam Gas Based Power Station***
COD ***4/1/1999***

FY20-21

In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Pmt. Internal Wearing & Electrification of newly constructed Class Room & Ladies Toilet at VKV,AGBP	0.58	0.00	0.58		NEEPCO/AGBP/UWC/T-05/20-21/09 DTD 29.04.2020
2	Installation of Tube well at B-Type Colony	8.37	0.00	8.37		NEEPCO/AGBP/CWC/19-20/T-02/647 DTD 30.07.2019
3	Crompton Horizontal OpenWell Submesible Pump Motor	0.22	0.00	0.22		NEEPCO/AGBP/UWC/T-03/2020-21/264 DTD 29.12.2020
4	SERVER	3.10	0.00	3.10		GEMC-511687787322327 DTD 08.04.2020
5	Monitor & Printer	0.30	0.00	0.30		NEEPCO/AGBP/IT-04/2020-21/45 DTD 11.11.2020
6	18 NOS Laptop	15.07	0.00	15.07		GEMC-511687758169561 DTD 13.11.2020
7	Blower Machine	0.32	0.00	0.32		
8	Automatic Sanitizer Machine	0.60	0.00	0.60		
9	2 Nos Brush Cutter	0.91	0.00	0.91		CWC/1668 DTD 23.03.2021
10	Gyser 25 ltrs	0.11	0.00	0.11		
11	Gyser 25 ltrs 2 Nos	0.23	0.00	0.23		NEEPCO/AGBP/UWC/T-3/20-21/252 DTD 19.12.2020

12	Gyser 25 ltrs 2 Nos	0.24	0.00	0.24		NEEPCO/AGBP/UWC/T-3/20-21/372 DTD 17.03.2021
13	Ahuja Make Speaker BOX for NRC	1.04	0.00	1.04		AGBP/PERS/WE-05/2019-20/6426 DT 20.03.2020
14	8 Nos LED TV	1.68	0.00	1.68		AGBP/PERS/ADMN-14/2020-21/5619-21 DT 10.02.2021
15	Fire Extinguisher	0.38	0.00	0.38		GEMC-51168770976720 DT 12.10.2020
16	5 Nos Haier Air Condision Outdoor	12.27	0.00	12.27		
17	Capital Spares not utilized	1,432.23	0.00	1,432.23		
			Total	1,477.64		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed,
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions :

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1999

FY21-22 — In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Fork Lift	15.95	0.00	15.95		GEMC 511687767765842 DTD 08.02.2021
2	BRUSHWEED CUTTER	0.92	0.00	0.92		CWC/1668 DTD 23.03.2021
3	HAND OPERATED TREE BRANCH CUTTER	0.18	0.00	0.18		CWC/1668 DTD 23.03.2021
4	TOSHI TOUCH FREE INFRARED HAND DRYER	0.06	0.00	0.06		
5	Top End Overhauling of GBS Unit-3	195.84	0.00	195.84		HOP/20-21/456 DTD 14.12.2020
6	Microtek UPS EB 1100 (12V)	0.07	0.00	0.07		UWC/20-21/352 DTD 09.03.2021
7	Exide Inva Master IMTT1500	0.15	0.00	0.15		UWC/20-21/352 DTD 09.03.2021
8	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600009121

9	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
10	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
11	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
12	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
13	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
14	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
15	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
16	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
17	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
18	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
19	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
20	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
21	VOLTAS SPILT AIR CONDITIONER 2 TR	0.54	0.00	0.54		UWD/164 DTD 07.08.2021
22	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
23	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
24	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
25	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
26	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
27	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
28	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
29	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
30	hp laserjet printer	0.20	0.00	0.20		
31	12 Ton Hydraulic Mobile Crane -IS:4573	16.73	0.00	16.73		GEMC 511687775863639-1 DTD 04.01.2022
32	Insulation Tester_1000V	0.22	0.00	0.22		GEMC 511687785507074 DTD 31.12.2021
33	Accuaguard for HOP residence	0.27	0.00	0.27		
34	Contruction of boundary wall for grazing land	5.28	0.00	5.28		

35	Security Surviliance Room	18.56	0.00	18.56		
	Fume Absorbed Acid tank	0.46	0.00	0.46		
36	Capital Spares not utilized	264.60	0.00	264.60		
			Total	526.89		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed.
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Company : ***NORTH EASTERN ELECTRIC POWER CORPORATION LTD.***
Name of the Generating Station : ***Assam Gas Based Power Station***
COD ***4/1/1999***

FY22-23 *In lakhs*

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Renovation Work for Clarifloculator of AGBPS	8.03	0.00	8.03		
2	Renovation of Aerator	4.64	0.00	4.64		
3	Renovation of intake well pump house	4.89	0.00	4.89		
4	Liquid Nitrogen Storage equipment	0.26	0.00	0.26		
	STIHL HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.25	0.00	0.25		
	Mild Steel Movable Stand for Mounting Digital display	0.23	0.00	0.23		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		

	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP All in One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP All in One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N12330353	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035H	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	Digisol Switch DG-DS 1528	0.13	0.00	0.13		
	8-Ports Managed PoE- Sl No: 94192302021, 00157	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302022, 00158	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302023, 00159	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302024, 00160	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302025, 00161	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302026, 00152	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302027, 00153	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302028, 00154	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302029, 00155	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023

	9-Ports Managed PoE- Sl No: 94192302030, 00156	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302046, 00152	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302046, 00151	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022

	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.54	0.00	0.54		GEMC 511687740694655 DTD 11.03.2022
	Voltrig SmartTV 85' 4k UltraHD -851VOL0920220001	1.75	0.00	1.75		
	Voltrig SmartTV 85' 4k UltraHD -851VOL0920220001	1.75	0.00	1.75		
	USB Camera with Integrated Speaker for VC System.	0.38	0.00	0.38		
	Outdoor Mild Steel Led Display System (8 ft. x 10	4.75	0.00	4.75		
	LG Microwave Oven for Household purposes	0.16	0.00	0.16		
	Battery	0.19	0.00	0.19		NEEPCO/AGBP/F&S/S-8/2022-23/143 DTD 13.02.2023
	Capital Spares not utilized	1596.31	0.00	1596.31		
			Total	1,660.77		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed.
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1999

FY23-24 in lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	STIHL HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.25	0.00	0.25		
2	HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.08	0.00	0.08		
3	HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.08	0.00	0.08		
4	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
5	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
6	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
7	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
8	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
9	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
10	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
11	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
12	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
13	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
14	Chain Pipe Wrench IS : 4123 Length = 920 mm	0.03	0.00	0.03		
15	Chain Pipe Wrench IS : 4123 Length = 920 mm	0.03	0.00	0.03		
16	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
17	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
18	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
19	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
20	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
21	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
22	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
23	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
24	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
25	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
26	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
27	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
28	Semi automated biochemistry analyzer (Arkray)	2.39	0.00	2.39		

29	EPSON MF PRINTER, MODEL: L1250, S/No: XSLX0	0.12	0.00	0.12		
30	EPSON MF PRINTER, MODEL: L1250, S/No: XSLX0	0.12	0.00	0.12		
31	EPSON MF PRINTER, MODEL: L1250, S/No: XSLX0	0.12	0.00	0.12		
32	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
33	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
34	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
35	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
36	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
37	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
38	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
39	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
40	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
41	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
42	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
43	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
44	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
45	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
46	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
47	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
48	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CQJ	0.99	0.00	0.99		
49	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CQW	0.99	0.00	0.99		
50	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRK	0.99	0.00	0.99		
51	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRQ	0.99	0.00	0.99		
52	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRW	0.99	0.00	0.99		
53	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRX	0.99	0.00	0.99		
54	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT2	0.99	0.00	0.99		
55	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT5	0.99	0.00	0.99		
56	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT7	0.99	0.00	0.99		
57	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTF	0.99	0.00	0.99		
58	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTS	0.99	0.00	0.99		
59	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTW	0.99	0.00	0.99		
60	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTY	0.99	0.00	0.99		
61	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTZ	0.99	0.00	0.99		
62	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CV0	0.99	0.00	0.99		
63	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CVK	0.99	0.00	0.99		
64	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CR7	0.99	0.00	0.99		
65	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSQ	0.99	0.00	0.99		
66	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSY	0.99	0.00	0.99		
67	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CS2	0.99	0.00	0.99		
68	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT1	0.99	0.00	0.99		
69	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CV7	0.99	0.00	0.99		
70	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CVC	0.99	0.00	0.99		
71	HP Scanner Flow N6600 fnw1	0.97	0.00	0.97		
72	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
73	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
74	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
75	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
76	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		

77	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
78	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
79	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
80	Capital Spares not utilized	161.27	0.00	161.27		
			Total	193.55		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed.
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

PART-I

(To be given for relevant dates and year wise)

Form L

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : Assam Gas Bsed Power Station

FY19-20 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.			
		Accrual Basis	Un- discharge liabality	Cash Basis	
A	a) Opening Gross Block Amount as per books	171,294.63			169,909.39
	b) Amount of capital liabilities in A(a) above	1,385.24			
	c) Amount of IDC in A(a) above				
	d) Amount of FC in A(a) above				
	e) Amount of FERV in A(a) above				
	f) Amount of Hedging Cost in A(a) above				
	g) Amount of IEDC in A(a) above				
B	a) Addition in Gross Block Amount during the period (Direct purchases)	4,351.24			
	b) Amount of capital liabilities in B(a) above				
	c) Amount of IDC in B(a) above				
	d) Amount of FC in B(a) above				
	e) Amount of FERV in B(a) above				
	f) Amount of Hedging Cost in B(a) above				
	g) Amount of IEDC in B(a) above				
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	2,735.42			
	b) Amount of capital liabilities in C(a) above				
	c) Amount of IDC in C(a) above				
	d) Amount of FC in C(a) above				
	e) Amount of FERV in C(a) above				
	f) Amount of Hedging Cost in C(a) above				
	g) Amount of IEDC in C(a) above				
D	a) Deletion in Gross Block Amount during the period	1,175.17			
	b) Amount of capital liabilities in D(a) above				
	c) Amount of IDC in D(a) above				
	d) Amount of FC in D(a) above				
	e) Amount of FERV in D(a) above				
	f) Amount of Hedging Cost in D(a) above				
	g) Amount of IEDC in D(a) above				
E	a) Closing Gross Block Amount as per books	177,205.11			
	b) Amount of capital liabilities in E(a) above	1,385.24			
	c) Amount of IDC in E(a) above				
	d) Amount of FC in E(a) above				
	e) Amount of FERV in E(a) above				
	f) Amount of Hedging Cost in E(a) above				
	g) Amount of IEDC in E(a) above				

Note:

1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : Assam Gas Based Power Station

FY20-21 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	177,206.11		
	b) Amount of capital liabilities in A(a) above	1,385.24		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	3,198.40		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	-		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	614.80		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	179,789.71		
	b) Amount of capital liabilities in E(a) above	1,385.24		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

175,820.87

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY21-22 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.

		Accrual Basis	Un- discharge liabality	Cash Basis
A	a) Opening Gross Block Amount as per books	179,789.71		
	b) Amount of capital liabilities in A(a) above	1,385.24		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	612.53		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	473.35		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	123.37		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	180,752.22		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1 Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY22-23 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liabality	Cash Basis
A	a) Opening Gross Block Amount as per books	180,752.22		
	b) Amount of capital liabilities in A(a) above	-		

	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	i) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	1949.06		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	3,667.98		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	380.15		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	185,989.10		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of units/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY23-24 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	185,989.10		
	b) Amount of capital liabilities in A(a) above	-		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			

B	a) Addition in Gross Block Amount during the period (Direct purchases)	522.97		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	993.96		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	445.61		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	187,060.43		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of units/station and financial year start date and end date

(Petitioner)

PART-I

FORM M

Statement in Capital Works in Progress

(To be given for relevant dates and year wise)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY19-20 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening CWIP as per books	152.94	0	152.94
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	2,681.44	0	2681.44
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	2,735.42	0	2735.42
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	99.96	0	98.96
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	- 0.00	-	-
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

FORM M

Statement in Capital Works in Progress
(To be given for relevant dates and year wise)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY20-21 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening CWIP as per books	-	0	0
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	2,521.53	0	2521.53
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	-	0	0
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	2,521.53	-	2,521.53
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1 Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**
(To be given for relevant dates and year wise)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY21-22 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- dischargo liability	Cash Basis
A	a) Opening CWIP as per books	2,521.53	0	2521.53
	b) Amount of capital liabilities in A(a) above			

	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	1,885.74	166.00	1,719.74
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	473.35	0	473.35
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	3,933.92	166.00	3,767.92
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1 Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**
(To be given for relevant dates and year wise)

Name of the Petitioner : **NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station : **Assam Gas Based Power Station**

FY22-23 **(Amount in Rs. Lakh)**

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening CWIP as per books	3,933.92	166.00	3,767.92
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	3,079.60	0	3,079.60
	b) Amount of capital liabilities in B(a) above			

	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	3,667.98	166.00	3,667.98
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	3,345.54	-	3,179.54
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

3,179.54

Note:
1 Relevant date/s means date of COD of units/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**
(To be given for relevant dates and year wise)

Name of the Petitioner : **NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station : **Assam Gas Based Power Station**

FY23-24 **(Amount in Rs. Lakh)**

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening CWIP as per books	3,345.54	-	3,179.54
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	4,173.28	26.12	4,147.16
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	993.96	0	993.96

	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	6,324.86	26.12	6,332.74
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant cells means date of COD of units/station and financial year start date and end date.

(Auditor)

PART-I
FORM-N

CALCULATION OF INTEREST ON NORMATIVE LOAN

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.					
Name of the Generating Station :						
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM			

(In Lacs)

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Gross Normative loan - Opening	79,418.68	79,210.97	80,755.77	80,810.76	81,966.85	84,389.47	
	Cumulative repayment of Normative loan upto previous year	77,588.05	79,210.97	80,755.77	80,810.76	81,966.85	84,389.47	
	Net Normative loan - Opening	1,830.63	-	-	-	-	-	
	Add:Increase due to addition during the year / period	- 207.71	2,373.13	472.44	272.22	2,628.32	816.97	
	Less: Decrease due to de-capitalisation during the year / period		818.33	427.45	85.80	205.70	311.92	
	Less: Decrease due to reversal during the year / period	-	-	-	-	-	-	
	Add:Increase due to discharges during the year / period		-	-	969.67	-	-	
	Net Addition	- 207.71	1,554.80	44.99	1,156.09	2,422.62	505.04	84,894.51
	Less : Repayment(s) of Normative Loan during the year	1,994.73	3,301.11	3,831.87	4,260.48	5,512.68	7,805.44	92,194.91
	Repayment adjustment on a/c of de capitalization (F)		1,052.13					
	Net Repayment	1,994.73	2,248.98	3,831.87	4,260.48	5,512.68	7,805.44	
	Net Normative loan - Closing	-	-	-	-	-	-	
	Average Normative loan	915.31	-	-	-	-	-	
	Weighted average rate of interest	9.783%	9.783%	9.783%	9.783%	9.783%	9.783%	
	Interest on loan	89.55	-	-	-	-	-	

(Petitioner)

Form-O(1)

CALCULATION OF INTEREST ON WORKING CAPITAL

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Rs. in lakh)

1. Calculation of Fuel costs:	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Normative Heat Rate	2500	2600	2600	2600	2600	2600
Normative annual plant availability factor (NAPAF) %	72%	72%	72%	72%	72%	72%
Weighted average landed price of primary fuel (Rs./ SCM)	7.2640	7.4963	7.1137	4.1721	6.7653	20.6173
Gross calorific value of primary fuel (kCal/SCM)	9202.940	9094.064	9197.349	9167.969	9167.755	9165.132
Target Energy generation/year (MU)	1005.24	1789.81	1784.92	1784.92	1784.92	1789.81
Target Energy generation/month (MU)	83.77	149.15	148.74	148.74	148.74	149.15
ECR(Rs/Kwh)	2.024	2.204	2.070	1.217	1.973	6.001
Cost of Fuel per month (Rs. lakhs)	**2,962.59**	**3,287.29**	**3,078.99**	**1,810.21**	**2,934.71**	**8,950.55**

2. Computation of receivables:

(Rs. in lakh)

Variable Charges per year	20105.40	39447.46	36947.88	21722.50	35216.51	107406.62
Variable Charges - 1 1/2 months	5925.19	4930.93	4618.49	2715.31	4402.06	13425.83
Fixed Charges - 1 1/2 months	5548.35	3778.22	3906.16	3959.84	4226.34	4856.43
Receivables (1 1/2months)	**11473.54**	**8709.15**	**8524.65**	**6675.15**	**8628.41**	**18282.26**

(Petitioner)

CALCULATION OF INTEREST ON WORKING CAPITAL

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Rs. in lakh)

SL No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite [1]						
2	Cost of Main Secondary Fuel Oil [1]						
3	Fuel Cost [2] (for one month)	2962.59	3287.29	3078.99	1810.21	2934.71	8950.55
4	Liquid Fuel Stock [2]						
5	O & M Expenses	1054.88	912.14	937.03	959.32	1003.28	1049.33
6	Maintenance Spares	3797.55	3283.70	3373.30	3465.95	3611.80	3777.59
7	Receivables	11473.53	8709.15	8524.65	8675.15	8628.41	16282.26
8	**Total Working Capital**	**19288.55**	**16192.28**	**15913.96**	**12939.63**	**16178.19**	**32059.72**
9	Rate of interest	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%
10	**Interest on Working Capital**	**2603.95**	**1951.17**	**1790.32**	**1358.66**	**1698.71**	**3847.17**
	SBI MCLR AS ON 1ST APRIL OF EACH YEAR		8.55%	7.75%	7%	7%	8.50%
	+ 350 BASIS POINTS		3.50%	3.50%	3.50%	3.50%	3.50%
	BANK RATE	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%

Note :

1 For Coal based / Lignite based generating stations

2 For Gas Turbine / Combined Cycle generating stations duly taking into account the annual mode of operation (last available) on gas fuel and liquid fuel

(Rs. in lakh)

(Petitioner)

YEAR		2019-20	2020-21	2021-22	2022-23	2023-24
Security Exp		408.56	337.65	329.04	352.77	495.08
Water Charge (Form-20)						

PART-I
FORM-P

Incidental Expenditure up to SCOD and up to Actual/anticipated COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

(Amount in Rs. Lakh)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD	
A	Head of Expenses:			
1	Employees' Benefits Expenses			
2	Finance Costs			
3	Water Charges			
4	Communication Expenses			
5	Power Charges			
6	Depreciation			
7	Other Office and Administrative Expenses			
8	Others (Please Specify Details)			
9	Other Pre-Operating Expenses			
B	Total Expenses			
	Less: Income from sale of tenders			
	Less: Income from guest house			
	Less: Income recovered from Contractors			
	Less: Interest on Deposits			

(Petitioner)

" Not Applicable in Case of AGBP"

PART-I
FORM-Q

Expenditure under different packages up to SCOD and up to Actual/anticipated COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : Assam Gas Based Power Station

(Amount in lacs)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD
1	Package 1		
2	Package 2		
3	Package 3		
4	Package 4		
5			
6			

(Petitioner)

* Not Applicable in Case of AGBP*

PART-I
FORM-R

Actual Cash Expenditure

Name of the Petitioner : **NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station : **Assam Gas Based Power Station**

(Amount in lakhs)

Particulars	Quarter-I	Quarter-II	Quarter-III	Quarter-n / DOCO
Expenditure towards Gross Block				
Add: Expenditure towards CWIP	-	-	-	-
Add: Capital Advances, if any	-	-	-	-
Less: Un-discharged liabilities (included above)	-	-	-	-
Add/Less: Others	-	-	-	-
Payment to contractors / suppliers towards capital assets	-	-	-	-
Cumulative payments	-	-	-	-

Note: If there is variation between payment and fund deployment justification need to be furnished

" Not Applicable in Case of AGBP"

(Petitioner)

PART-I
FORM-S

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

FY19-20

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2020	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

FY20-21

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2021	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

FY21-22

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2022	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	240.78	NIL
	Steam Turbine Unit I,II & III	1999-2000				NIL
	Switch Gear	1995-1996				NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	1,144.46	NIL
	Steam Turbine Unit I,II & III	1999-2000				NIL
	Switch Gear	1995-1996				NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

FY22-23

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2023	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
NIL	NIL	NIL	NIL	NIL	NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

FY23-24

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2024	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
NIL	NIL	NIL	NIL	NIL	NIL	NIL

Project:- Assam Gas Based Power Plant

Major Spares Capitalized -FY19-20

S.No	Main Group	Group Name	Material Code	Material Description	Qty.	Value (Per Quantity)	Capitalized Amount	Head of Account	DATE OF GRN	GRN No.	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR												
1	37	GBS	3719001469	NBL Piston - 275 Diameter	1	827,491.88	827,491.88	512105-Gas Booster Station	07.05.2019	10190034	20190011 Dt.22.5.2019	20190137 Dt.30.8.2019
2	37	GBS	3719001498	NBL HEAD CYNLINDER ASSM	1	1,328,900.32	1,328,900.32	512105-Gas Booster Station	06.05.2019	10190033	20190011 Dt.22.5.2019	
3	38	GBS	3804090150	Gas Leakage Detection System	1	1,123,797.00	1,123,797.00	512105-Gas Booster Station	24.04.2019	10190007	20190017 Dt.29.8.2019	20190278 Dt.30.8.2019
4	37	GBS	3700020017	Piston Rod	1	2,115,769.00	2,115,769.00	512105-Gas Booster Station	07.05.2019	10190035	20190081 Dt.18.2.2020	20190198 Dt.20.2.2020
5	36	GT	3603060004	Blade Kit- Turbine Rotor Stage-I	1	59,000,000.54	59,000,000.54	512102- Gas Turbine	17.08.2019	10190069	20190058 Dt.31.3.2020	20190093 Dt.31.3.2020
6	36	GT	3603110018	Nozzle Assembly Turbine Stage-II	1	45,815,251.54	45,815,251.54	512102- Gas Turbine	17.08.2019	10190069	20190079 Dt.16.3.2020	20190053 Dt.16.3.2020
7	36	GT	3603110024	Shroud Set Turbine Stage # 3	1	4,012,000.04	4,012,000.04	512102- Gas Turbine	17.08.2019	10190069	20190079 Dt.16.3.2020	
13	36		3603110024	Shroud Set Turbine Stage #3	1	4,012,000.04	4,012,000.04	512102- Gas Turbine	13.03.2020	10190186	20190079 Dt.16.3.2020	20190053 Dt.16.3.2020
14	36		3611000094	Quill Shaft for MOP	1	666,417.69	666,417.69	512102- Gas Turbine	12.03.2020	10190185	20190083 Dt.18.3.2020	20190061 Dt.18.3.2020
15	38		3811250005	90AF 30A, Complete Actuator, GTG#1/4, Rotork Make (WD-2220-00-03)	2	697,070.00	697,070.00	512102- Gas Turbine	13.03.2020	10190187	20200031 Dt.1.6.2020/ 20200040 Dt.31.8.2021	20200085 Dt.1.6.2020/ 20201712 Dt.31.8.2021
						TOTAL	**119,605,697.85**					
MATERIALS NOT UTILISED DURING THE YEAR												
1	37	GBS	3719000615	Actuator ASW Gas Regulating	1	827,967.07	827,967.07	512106-Gas Booster Station	11.05.2019	10190038	NIL	NIL
2	36	GT	3629020266	Seal Assy. With Seal Support Bars	1	1,619,204.94	1,619,204.94	512102- Gas Turbine	03.05.2019	10190009	NIL	NIL
3	36	GT	3629020311	Gear Box: GS315/GZ30	2	795,827.50	1,591,655.00	512102- Gas Turbine	14.05.2019	10190015	NIL	NIL
4	38	C&I	3804092141	Capacity Control VLV Actuator	2	775,088.68	1,550,177.35	512105-Gas Booster Station	14.06.2019	10190055	NIL	NIL
5	37	GBS	3717000293	Nozzle Ring	1	946,480.35	946,480.35	512105-Gas Booster Station	06.07.2019	10190056	NIL	NIL

6	39		3920010009	245 KV HV Bushing +15MVA Stationary Transformer	1	885,000.00	885,000.00	513113-Switch Yard Including Cable Connection	04.02.2020	10190158	NIL	NIL
7	39		3920090019	HV Bushing+60MVA Generator Transformer	1	885,000.00	885,000.00	513113-Switch Yard Including Cable Connection	04.02.2020	10190158	NIL	NIL
8	38		3800060006	P-N: 43985-00007Flame Detector Ignition System	1	3,111,026.00	3,111,026.00	512102- Gas Turbine	13.11.2019	10190115	NIL	NIL
9	38		3804060063	Chamatograph Natural Gas With Accessories	1	6,565,851.00	6,565,851.00	512105-Gas Booster Station	04.11.2019	10190107	NIL	NIL
10	38		3810011510	Complete Set of control VLV, CV-20/21	2	539,360.02	1,078,720.04	512174- Gas Steam turbine	05.11.2019	10190108	NIL	NIL
11	42		4305060224	Complete Cyclo Gear Model Z56-616	1	728,650.00	728,650.00	512175-Cooling Tower	18.11.2019	10190117	NIL	NIL
12	36		3605010160	Thrust Bearing Assy/Thrust BRG (Complete Set)	1	5,619,600.00	5,619,600.00	512102- Gas Turbine	04.03.2020	10190178	NIL	NIL
13	36		3515000725	Instrument Air Compressorinstrument Air Drier Exhaust Valve, Cyl Model	1	511,294.00	511,294.00	512102- Gas Turbine	04.03.2020	10190178	NIL	NIL
14	37		3700020599	16.25 Inch Cylinder Assy	1	13,710,636.00	13,710,636.00	512105-Gas Booster Station	02.03.2020	10190174	NIL	NIL
5	36		3600030187	Bearing Thrust/ Bearing Thrust Tilting Pad	1	619,509.00	619,509.00	512102- Gas Turbine	28.11.2019	10190120	NIL	NIL
9	36		3600030008	Nozzle Assy/ Turbine Stage 1, Nozzle Assyre Stage 1 (PGMA-36178)	1	36,790,892.05	36,790,892.05	512102- Gas Turbine	13.03.2020	10190186	NIL	NIL
10	36		3601030007	Nozzle Assy/ Turbine Stage 2, 2nd stage nozz. Assy FR5B	1	56,805,848.00	56,805,848.00	512102- Gas Turbine	13.03.2020	10190186	NIL	NIL
11	36		3603040006	Nozzle Assy/ Turbine Stage 3, NIL	1	45,813,251.63	45,813,251.63	512102- Gas Turbine	13.03.2020	10190186	NIL	NIL
12	36		3602060002	Blade Kit/ Turbine Rotor Stage 3, NIL	1	38,309,837.94	38,309,837.94	512102- Gas Turbine	13.03.2020	10190186	NIL	NIL
15	38		3811250006	80AF 30/L Complete Actuator, GTG81'4, Rotork Make (MD-2220-03-02)	2	897,070.00	897,070.00	512102- Gas Turbine	13.03.2020	10190187	NIL	NIL
						TOTAL	219,169,870.39					
				Total			337,769,479.24					

OK

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2020-21 (Till 31-03-2021)

Major Spares Capitalized -FY 2020-21

SL	ITEMS	QTY.	M Code	RATE	AMOUNT	HEAD OF ACCOUNT ALONG WITH CODE WHERE IN CAPITALISED	GRN NO	DATE (mm/dd/yy yy)	Ref JV NO	Capitalised During the year	QTY. ISSUED/UTILIZED TILL 31.03.2021	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING TME YEAR													
1	Bearing Set for LGB	1	71903500100010	9,764,607.00	9,764,607.00	512102 (Gas Turbine)	10200002	24.04.2020	02200645	FY2020-21	1	20200096 Dt 5.12.2020	20200428 Dt 5.12.2020
2	Set of Bearing for MOP (1SET=4NOS)	1	3611000030	1,626,126.00	1,626,126.00	512102 (Gas Turbine)	10200002	24.04.2020	02200645	FY2020-21	1	20200084 Dt 3.12.2020	20200414 Dt 3.12.2020
3	Blade Kit Turbine Rotor Stage-I Blade Kit Turbine Rotors	1	3603060004	59,000,000.00	59,000,000.00	512102 (Gas Turbine)	10200030	26.05.2020	02200644	FY2020-21	1 SET	20200090 Dt 7.12.2020	20200432 Dt 7.12.2020
4	Cap & Liner Arrgt-Combustion , Comb Linear Assy(G-24)	4	71902010000010	1,056,336.00	4,225,344.00	512102 (Gas Turbine)	10200036	07.07.2020	02200668	FY2020-21	4 NO	20200100 Dt.20.1.2021	20200522 Dt.22.1.2021
5	Cap & Liner Arrgt-Combustion , Linear Assy/Comb(pgma-35111)(G-25)	2	71902010000020	1,056,336.00	2,112,672.00	512102 (Gas Turbine)	10200036	07.07.2020	02200669	FY2020-21	1 NO	20200100 Dt.20.1.2021	
6	Case & Shroud Arrgt , Turbine ,Kit of 36 Shrouds Stage 1	1	71900515000150	8,896,026.44	8,896,026.44	512102 (Gas Turbine)	10200035	06.07.2020	02200672	FY2020-21	1 No	20200083 Dt 2.12.2020	20200413 Dt 2.12.2020
7	Compressor wheel	1	83090020006180	2,235,127.00	2,235,127.00	512105 (Gas Booster Station)	10200045	27.07.2020	02200671	FY2020-21	1	20200094 Dt 31.8.2020	20200237 Dt 31.8.2020
8	Ratchet Mechanism/ Cam, Freewheel Assy.	1	3613000142	1,149,658.00	1,149,658.00	512102 (Gas Turbine)	10200009	22.09.2020	02200765	FY2020-21	1 NO	20200096 Dt. 5.12.2020	20200428 Dt 5.12.2020
9	Housing Assy Wastegate, 3 IN R.B	1	83090010090010	943,443.00	943,443.00	512105 (Gas Booster Station)	10200066	14.09.2020	02200766	FY2020-21	1 NO	20200026 Dt22.9.2020	20200268 Dt.22.9.2020
10	Housing Assy Wastegate, 3 IN R.B	1	83090010090240	943,443.00	943,443.00	512105 (Gas Booster Station)	10200066	14.09.2020	02200766	FY2020-21	1 NO	20200026 Dt22.9.2020	
11	Diverter Damper, Air barrier Fan & Motor assy	1	71914510000630	737,884.94	737,884.94	512102 (Gas Turbine)	10200111	05.11.2020	02201250	FY2020-21	1 NO	20200089 Dt 14.12.2020	20200441 Dt.14.12.2020
12	Flame Detector (28FD) Miscellenous	2	63012010003620	801,871.29	1,603,742.58	512102 (Gas Turbine)	10200107	03.11.2020	02201252	FY2020-21	2	20200029 Dt.30.1.2021	20200551 Dt.30.1.2021
13	Actuator, Heinzmann	1	83090020001020	2,261,825.07	2,261,825.07	512105 (Gas Booster Station)	10200087	08.10.2020	02201258	FY2020-21	1	20200032 Dt.30.9.2020	20200292 Dt.9.10.2020
14	Air Starter Motor TDI	1	83090020001250	669,844.52	669,844.52	512105 (Gas Booster Station)	10200090	09.10.2020	02201257	FY2020-21	1	20200032 Dt.30.9.2020	
15	Sulfi Acid Storage Tank, MOC; MS/RL	1	78690010000120	804,507.00	804,507.00	512175 (Cooling water system)	10200098	16.10.2020	02201258	FY2020-21	1	20200086 Dt.20.10.2020	20200318 Dt.21.10.2020
16	Housing Assy Wastegate, 3 IN R.B	2	83090010090010	1,008,413.63	2,016,827.26	512105 (Gas Booster Station)	10200200	25/02/2021			1 NO	20200080 Dt.19.3.2021	20200693 Dt.22.3.2021
17	Cap & Liner Arrgt-Combustion , Linear Assy/Comb(pgma-35111)(G-25)	3	4000004099	1,056,336.00	3,169,008.00	512102 (Gas Turbine)	10200036	7/7/2020			3 No	20200100 Dt.20.1.2021	20200522 Dt.22.1.2021
18	Piston Rod	1	72501004000150	2,402,094.00	2,402,094.00	512105 (Gas Booster Station)	10200166	29/01/2021			1 NO	20200081 Dt.18.1.2020	20150598 Dt.20.2.2020
19	Bearing Thrust/ Bearing Thrust Tilting Pad	1	3600030187	619,509.00	619,509.00	512102- Gas Turbine	10190120	26.11.2019			1	20200004 Dt.26.4.2020	20200025 Dt.28.4.2020
20	Nozzle Arrgt Turbine Stage I, Nozzle Arrgmt Stage 1 (PGMA-35118)	1	3603000008	36,760,892.05	36,760,892.05	512102- Gas Turbine	10190196	13.03.2020			1	20200091 Dt.21.12.2020	

21	Nozzle Arrgt Turbine Stage 3, 2nd stage nozz. Assy FPBU	1	3603030007	56,305,648.00	56,305,648.00	512102- Gas Turbine	10190186	13.03.2020			1	20200061 Dt.21.12.2020	Dt.21.12.2020
22	Nozzle Arrgt Turbine Stage 3, NIL	1	3603040005	45,815,251.83	45,815,251.83	512102- Gas Turbine	10190186	13.03.2020			1	20200061 Dt.21.12.2020	
23	Blade Kit Turbine Rotor Stage 3, NIL	1	3603060002	38,505,537.94	38,309,837.94	512102- Gas Turbine	10190186	13.03.2020			1	20200096 Dt.7.12.2020	20200432 Dt.7.12.2020
24	BOAF 30A, Complete Actuator, GTG#14, Rotork Make (WD-2220-00-02)	1	3811250006	697,070.00	697,070.00	512102- Gas Turbine	10190187	13.03.2020			1	20200001 Dt.1.6.2020/ 20200040 Dt.31.3.2021	20200055 Dt.1.6.2020/ 20200732 Dt.31.3.2021
				TOTAL	283,092,691.43								
MATERIALS NOT UTILISED DURING THE YEAR													
1	CMR 925 Rexnord Make Thomash Coupling	1	726300015000200	605,871.00	605,871.00	512105 (Gas Booster Station)	10200021	16.06.2020	02200361	FY2020-21		NIL	
2	CMR 925 Rexnord Make Thomash Coupling	1	830600010000150	1,290,930.00	1,290,930.00	512105 (Gas Booster Station)	10200021	16.06.2020	02200361	FY2020-21		NIL	
3	Diaphragm Row-16	1	719120200000410	5,523,773.63	5,523,773.63	512102 (Gas	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
4	Combustor Basket Assy ,Combustor Basket Unit 1-3-5-6	4	3502000064	2,390,645.00	9,562,580.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	4 NO	NIL	NIL
5	Combustor Basket Assy ,Combustor Basket Unit 3-4	2	3502000073	2,390,645.00	4,781,290.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	2 NO	NIL	NIL
6	Combustor Basket Assy ,Combustor Basket Unit 7-8	2	3502000082	2,390,645.00	4,781,290.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	2 NO	NIL	NIL
7	Combustor Basket Assy ,Transition Piece	8	3502000107	2,578,646.38	20,613,171.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	8 NO	NIL	NIL
8	Turbine Blade Ring & Static Row unit 1-2-3	32	719108250000030	836,198.00	26,758,336.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	32 No	NIL	NIL
9	Turbine Blade Ring & Blade Static Row unit 1-2-3	2	719105250001240	1,207,630.50	2,415,261.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
10	Turbine Blade Ring & Blade Static Row unit 1-2-3	20	719105250000050	1,284,711.50	25,694,230.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
11	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RU)	1	719105250000060	1,284,712.00	1,284,712.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
12	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RD)	1	719105250000070	1,284,712.00	1,284,712.00	512102 (Gas Turbine)	1020040	03.08.2020	02200669	FY2020-21		NIL	NIL
13	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (LU)	1	719105250000080	1,284,712.00	1,284,712.00	512102 (Gas Turbine)	1020040	03.08.2020	02200669	FY2020-21		NIL	NIL
14	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RL)	1	719105250000090	1,284,712.00	1,284,712.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
15	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,supporter #1(Horizontal)	1	719105250001380	6,072,274.00	6,072,274.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
16	Bypass Valve Actuator	1	531846300762450	617,217.00	617,217.00	512174 (Steam Turbine)	10200051	17.08.2020	02200673	FY2020-21		NIL	NIL
17	Discharge Valve Actuator	1	531845120024S0	756,260.00	756,260.00	512174 (Steam	10200051	17.08.2020	02200673	FY2020-21		NIL	NIL
18	Bearing Insulation	1	719060100504010	763,224.00	763,224.00	512174 (Steam	1020041	22.07.2020	02200670	FY2020-21		NIL	NIL
19	Module-DIAG , IGN PWR (IPM-D)	1	830900200480I0	511,424.22	511,424.22	512105 (Gas Booster Station)	10200094	11.09.2020	02200782	FY2020-21		NIL	NIL
20	LGB Coupling Hardware (Nut, Bolt washer) between SEN and Gear Box	1	719055000100020	1,906,638.20	1,906,638.20	512102 (Gas Turbine)	10200035	07.07.2020	02200795	FY2020-21		NIL	NIL

21	Bearing, Thrust/Bearing Thrust Tilting Pad	1	7190104000050	619,509.44	619,509.44	512102 (Gas Turbine)	10200105	02.11.2020	02201251	FY2020-21		NIL	NIL
22	Pressure Indicator Controller (PIC) GBS MHI Make	1	63133262250000	971,880.00	971,880.00	512106 (Gas Booster Station)	10200109	04.11.2020	02201253	FY2020-21		NIL	NIL
23	Load Coupling & Hardware	1	7190451000040	2,277,122.00	2,277,122.00	512102 (Gas Turbine)	10200102	24.10.2020	02201254	FY2020-21		NIL	NIL
24	Housing Assy Wastegate, 3 IN R.B	2	8309001009024O	1,009,413.63	2,018,827.26	512106 (Gas Booster Station)	10200200	25/02/2021				NIL	NIL
25	Housing Assy Wastegate, 3 IN R.B	1	8309001009057O	1,033,163.59	1,033,163.59	512106 (Gas Booster Station)	10200196	23/02/2021				NIL	NIL
26	Housing Assy Wastegate, 3 IN R.B	1	8309001009058O	1,033,163.59	1,033,163.59	512106 (Gas Booster Station)	10200196	23/02/2021				NIL	NIL
27	Cross Head	1	72501001000790	1,615,212.00	1,615,212.00	512106 (Gas Booster Station)	10200156	29/01/2021				NIL	NIL
28	Piston and rod assembly 23 inch NOS	1	72501002000030	3,314,123.60	3,314,123.60	512106 (Gas Booster Station)	10200167	29/01/2021				NIL	NIL
29	Water Pump Kit	1	8309001009040O	512,673.14	512,673.14	512106 (Gas Booster Station)	10200192	18/02/2021				NIL	NIL
30	Overhaul Kit JWPump	1	8309001009039O	556,069.06	556,069.06	512106 (Gas Booster Station)	10200192	18/02/2021				NIL	NIL
31	Mandatory Spares for VMS, Metrix Setpoint	1	63185500004980	5,222,125.00	5,222,125.00	512102 (Gas Turbine)	10200172	1/2/2021				NIL	NIL
32	Suction Control Valve with Actuator, Full Set	2	63184502002450	1,847,290.00	3,694,580.00	512106 (Gas Booster Station)	10200201	26.02.2021				NIL	NIL
33	NBL Piston,9:1 275 Diameter	1	8309001009025O	933,866.41	933,866.41	512106 (Gas Booster Station)	10200192	18/02/2021				NIL	NIL
34	EXT NWORK PROT SRTY OF ABT MGMT SYS FOR INTEGRATION OF OTHER SYSTEM	1	63199000860000	896,800.00	896,800.00	512102 (Gas Turbine)	10200205	02.03.2021				NIL	NIL
35	SILICA ANALYZER WITH PANEL	1	6300107701000O	725,700.00	725,700.00	512174 (Steam Turbine)	10200224	31.03.2021				NIL	NIL
				TOTAL	143,223,423.14								
				TOTAL	426,316,014.57								

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SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2021-22 (Till 31.03.2022)

Major Spares Capitalized -FY 2021-22

SL	ASSET DESCRIPTION	ID	MATFIN CODE	AMOUNT	SAP ASSET VALUE DATE	Capitalised During the year	QTY. ISSUED/UTILIZED TILL 31.03.2022	Division	COD	Nature	Spares Life	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR													
1	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1		3000000009	4,742,966.05	09.04.2021	2021-22	0	Clarke/sfc	09.04.2021	Capital Spare	More than 3 years	117 Dt.25.4.2021	4900002922 Dt.15.6.2021
2	MODULE-DIAG:IGN PWR(IPM-D):GAS ENGINE		83090020048010	565,765.94	09.04.2021	2021-22	0	Clarke/sfc	09.04.2021	Capital Spare	More than 3 years	37 Dt.12.5.2021	4900000053 Dt.19.04.2021
3	Actuator,HEINZMANN:GAS ENGINE-WAUKESHA:1		3000000447	1,033,465.23	30.12.2021	2021-22	1	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	1958 Dt.19.03.2022	4900002096 Dt.26.3.2022
4	Circuit Breaker		3000000951	1,845,719.50	15.12.2021	2021-22	6	Switchyard	15.12.2021	Capital Spare	More than 3 years	1719 Dt.23.2.2022	4900001423 Dt.23.2.2022
5	Gas Compressor Piston Rod Assembly for Gas Boster		3000000977/ 72501002000030	3,512,071.00	25.03.2022	2021-22	2 Nos	SFC/GBS	25.03.2022	Capital Spare	More than 3 years	2046 Dt.28.3.2022 & 367 Dt.2.6.2021	4900002103 Dt.28.3.2022 & 4900000415 Dt.2.6.2021
6	Spares of Steam Turbines Model HNK-T1/2.8/32-4, 30 MW		3000000434	1,855,620.80	14.03.2022	2021-22	0	STG	14.03.2022	Capital Spare	More than 3 years	2029 Dt.26.3.2022	4900002097 Dt.26.3.2022
7	Bulk Acid Storage Tank			1,496,071.54									
8	VT Pump			879,122.50									
9	VT Pump			879,122.50									
			TOTAL	16,909,927.07									
MATERIALS NOT UTILISED DURING THE YEAR													
1	1ST STG NOZZLE BODY&DIFUS-MAIN EJEC (Spares for Steam Air Jet Ejector : Condenser air		3000000008	1,973,479.20	29.04.2021	2021-22	0	shell/st	29.04.2021	Capital Spare	More than 10 years	NIL	
2	2ND STG NOZZLE BODY&DIFUS-MAIN EJECTOR (Spares for Steam Air Jet Ejector : Condenser air)		3000000009	1,547,994.60	29.04.2021	2021-22	0	shell/st	29.04.2021	Capital Spare	More than 10 years	NIL	
3	BASIC TURBO CHARGER WAUKESHA 12V 275GL+		3000000012	8,256,236.98	28.06.2021	2021-22	0	SFC/GBS	28.06.2021	Capital Spare	More than 3 years	NIL	
4	Cylinder Head Assembly		3000000011	1,736,217.60	31.12.2021	2021-22	0	SFC/GBS	31.12.2021	Capital Spare	More than 3 years	NIL	
5	Assembly NGW		3000000446	816,816.78	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	NIL
6	MODULE-DIAG:IGN PWR(IPM-D):GAS ENGINE		83090020048010	587,672.32	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	NIL
7	Nozzle Ring		72503007000280	964,212.15	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	
8	Compressor Wheel		3000000445	2,408,644.13	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	NIL
9	Spares for Cooling tower		3000000392	2,236,999.00	16.08.2021	2021-22	0	STG	16.08.2021	Capital Spare	More than 3 years	NIL	NIL
10	Compressor Casing Complete-72		3000000565	693,376.26	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
11	Wall Insert-77000		3000000566	544,570.00	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
12	Turbine Casing-51000		3000000567	1,040,259.65	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	

13	Nozzle Ring(Spares)		3000000568	564,212.22	25.02.2022	2021-22	0	SPC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
14	Spares for GBS Wouksa		3000000575	2,208,145.16	16.03.2022	2021-22	0	SPC/GBS	16.03.2022	Capital Spare	More than 3 years	NIL	
15	Mandatory Spares for Circuit Breaker			761,500.00	12.08.2021	2021-22	0	STC	12.08.2021	Mandatory Spares	More than 3 years	NIL	
			TOTAL	26,460,033.28									
			TOTAL	43,269,960.25									

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2022-23 (Till 31-03-2023)

Major Spares Capitalized -FY 2022-23

ID	SL NO	ASSET DESCRIPTION	ID	MATFIN CODE	SAP MATERIAL CODE	AMOUNT	SAP DOC NO	SAP ASSET VALUE DATE	Capitalised During the year	Division	COD	Nature	Spares Life	QTY. ISSUED/UTILIZED TILL 31.03.2023	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR																
101305000021	2	ACTUATOR ASM; GAS REGULATING;GAS ENGINE	101305000021		3000000994	656,156.78	2.219E+09	30.06.2022	2022-23	GBS, SFC	30.06.2022	CAPEX	More the 3 years		5752 Dt.30.03.2023	4900006822 Dt.20.03.2023
101305000021	3	Gas Compressor, 23 inch Piston & Rod ass	101305000021		3000000571	3,512,543.00	2.219E+09	21.07.2022	2022-23	GBS, SFC	21.07.2022	CAPEX	More the 3 years	1 No	4915 Dt.6.12.2022	4900001181 Dt.6.12.22
101305000021	4	ACTUATOR	101305000021		3000000447	1,122,105.66	2.219E+09	01.10.2022	2022-23	SFC	01.10.2022	CAPEX	More the 3 years	1	4633 Dt.17.11.2022	4900000706 Dt.17.11.2022
101327000025	6	6.6 KV, 560 KW Vertical CW Pump Motor	101327000025		3000001079	7,740,328.00	2.219E+09	16.02.2023	2022-23	ST	16.02.2023	CAPEX	More the 3 years	1	6369 Dt.6.3.2023	4900006170 Dt.6.3.2023
101311000053	7	SCROLL CONVEYOR ASSEMBLY CETRIFUGE	101311000053		3000000677	1,239,256.00	2.219E+09	17.05.2022	2022-23	SFC	17.05.2022	CAPEX	More the 3 years	1	4937 Dt.7.12.2022	4900001102 Dt.7.12.2022
101305000021	9	ACTUATOR;HEINZ MANN;GAS ENGINE-WAUKESHA1T	101305000021		3000000003	5,956,136.00	2219023050 & 2219023052	31.01.2023	2022-23	SFC	31.01.2023	CAPEX	More the 3 years	2	3592 Dt.26.08.2022/ 6249 Dt.26.2.23	4900003759 Dt.26.08.2022/ 4900006378 Dt.26.2.23
					TOTAL	30,152,524.44										
MATERIALS NOT UTILISED DURING THE YEAR																
101305000021	1	NBL PISTON 9:1 275 ENGINE/12V 275 GL+	101305000021		3000000992	2,361,676.80	2.219E+09	10.06.2022	2022-23	GBS, SFC	10.06.2022	CAPEX	More the 3 years		NIL	
101305000021	2	NBL LINER CYL ENGINE ENGINE-12V 275GL+	101305000021		3000000993	1,075,399.68	2.219E+09	10.06.2022	2022-23	GBS, SFC	10.06.2022	CAPEX	More the 3 years		NIL	
101305000021	3	Module, Ignitor Contra(NCM), Gas Engin	101305000021		3000000446	1,035,477.14	2.219E+09	30.06.2022	2022-23	GBS, SFC	30.06.2022	CAPEX	More the 3 years		NIL	
101305000021	4	CYLINDER 23 INCH FOR GBS	101305000021		3000001159	20,552,290.00	2.219E+09	31.03.2023	22-23	SFC	31.03.2023	CAPEX	More the 3 years		NIL	
101305000021	5	PISTON & ROD;GBS;GAS	101305000021		3000000985	2,545,611.00	2.219E+09	19.10.2022	2022-23	SFC	19.10.2022	CAPEX	More the 3 years		NIL	
101305000021	6	AIR STARTER MOTOR 29343SL 12V 275GL+	101305000021		3000001077	832,178.46	2.219E+09	11.01.2023	2022-23	SFC	11.01.2023	CAPEX	More the 3 years		NIL	

101327000020	7	UPPER PART OF BEARING SHELL:STG 30MW	101327000020		3000000435	921,320.40	2.219E+09	31.07.2022	2022-23	ST	31.07.2022	CAPEX	More the 3 years		NIL		
101327000025	8	STEAM TURBINE ROTOR	101327000025		3000001071	47,826,193.00	2.219E+09	25.10.2022	2022-23	ST & Aux	25.10.2022	CAPEX	More the 3 years		NIL		
101311000052	9	COMP. CG MODEL 2S6-25:HUMBOLDT WEDAG	101311000052		3000000978	761,159.00	2.219E+09	17.05.2022	2022-23	SFC	17.05.2022	CAPEX	More the 3 years		NIL		
101801000599	10	KIRLOSKER PUMP	101801000599		3000001073	821,491.92	2.219E+09	31.10.2022	2022-23	ST & Aux	31.10.2022	CAPEX	More the 3 years		NIL		
101302000177	11	PROPELLER SHAFT TRANSVERSE DRIVE	101302000177		3000000969	2,192,772.00	2.219E+09	22.09.2022	2022-23	SFC	22.09.2022	CAPEX	More the 3 years		NIL		
101302000177	12	ROTORK GEAR BOX RH SIDE	101302000177		3000000960	4,295,325.00	2.219E+09	23.11.2022	2022-23	SFC	23.11.2022	CAPEX	More the 3 years		NIL		
101302000177	13	ROTORK GEAR BOX LH SIDE	101302000177		3000000961	4,295,325.00	2.219E+09	23.11.2022	2022-23	SFC	23.11.2022	CAPEX	More the 3 years		NIL		
101302000177	14	TORQUE CONVERTER TWINDISC: 4-SGE-2015-1	101302000177		3000001072	13,043,620.00	2.219E+09	31.01.2023	2022-23	GT	31.01.2023	CAPEX	More the 3 years		NIL		
101305000031	1	(Head Cylinder - WAUKESHA 12 V275GL+	101305000031		3000000011	2,108,764.16	2.219E+09	18.05.2023	2022-23	GBS SFC	18.05.2023	CAPEX	More the 3 years		6855 Dt 18.4.2023	4500020552 Dt 18.4.2023	
101327000025	5	3Ph-MOTOR IE:3SB 4POLE-1500RPM 75MW-3905	101327000025		3000001000	699,010.30	2.219E+09	17.08.2022	2022-23	ST	17.08.2022	CAPEX	More the 3 years		6816 Dt 4.11.2023	4500030651 Dt 4.11.2023	
101305000177	6	FLAME DETECTOR 315A2798P001 (SFC)	101305000177		3000001063	1,874,395.79	2.219E+09	12.08.2022	2022-23	C&I	12.08.2022	CAPEX	More the 3 years		9721 Dt.24.11.2023	4500030651 Dt.24.11.2023	
101302000177	10	50 MVA ST (BHEL)	101302000177		3000001074	52,572,000.00	2219027330 & 2219031630	17.03.2023	2022-23	ITEM	17.03.2023	CAPEX	More the 3 years			4500013331 dtd. 29/12/2021	
					TOTAL	159,639,925.62											
					TOTAL	179,783,469.06											

OK

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2023-24 (Till 31.03.2024)

Major Spares Capitalised -FY 2023-24

SL NO	ASSET DESCRIPTION	ID	MATFN CODE	SAP MATERIAL CODE	AMOUNT	SAP DOC NO	SAP ASSET VALUE DATE	Capitalised During the year	QTY. ISSUED/UTILIZED TILL 31.03.2024	Division	COD	Nature	Spares Life	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR															
1	REDUCTION GEAR UNIT(SR 36 GRDR)	101327000026		3000000392	2,290,000.00	2350034906	25.08.2023	2023-24		ST & Aux				9005 Dt.23.9.2023	4900029852 Dt.23.9.2023
2	Housing Assy Wastegate 3 in LB WAUKESHA	101305000023	630900100900240	3000000013	2,555,250.00					gbs			1 NO	9137 Dt.4.10.2023	4900099170 Dt.4.10.2023
4	Gas Compressor, 23 inch Piston & Rod ass	101305000023		3000000571	3,669,716.00				1 No					11459 Dt.26.03.2024	4900011501 Dt.26.3.2024
5	50 MVA GT	101302000191			4402094.00									10185 Dt.29.11.2023	4900010137 Dt.29.12.2023
6	VERTICAL TURBWE PUMP (INTAKE)	101327000026		3000001697	1,475,000.00									10409 Dt.27.1.2024	4900010568 Dt.27.1.2024
7	Head Cylinder - WAUKESHA 12 V275GL+	101306000021		3000000011	2,108,764.16									9880 Dt.18.9.2023	4900007357 Dt.18.9.2023
8	3Ph-MOTOR IS.325 4POLE-1500RPM 75KW-280S	101327000025		3000001008	560,046.35									9515 Dt.4.11.2023	4900009561 Dt.4.11.2023
9	FLAME DETECTOR 318A2708P001 (28FD)	101302000177		3000001063	1,878,335.73									9741 Dt.24.11.2023	4900009863 Dt.24.11.2023
10	50 MVA GT (BHEL)	101302000177		3000001074	52,510,000.00										4900010037 dtd. 29/12/2023
				TOTAL	71,537,706.23										
MATERIALS NOT UTILISED DURING THE YEAR															
1	ACTUATOR,HEINZMANN,GAS ENGINE-WAUKESHA:1	101306000023		3000000003	3,936,736.20	2319007456	12.06.2023	2023-24		GBS, SFC				NIL	NIL
2	ACTUATOR,HEINZMANN,GAS ENGINE-WAUKESHA:1	101306000023		3000000003	1247829.00			2023-24		GBS, SFC				NIL	NIL
3	Module, Ignition Control (NCM), Gas Engine	101306000023		3000000448	670308.00			2023-24		GBS, SFC				NIL	NIL
4	Housing Assy Wastegate 3 in RB WAUKESHA	101305000023		3000000014	2,599,515.00					gbs				NIL	NIL
5	ACTUATOR,HEINZMANN GAS ENGINE-WAUKESHA:1	101305000023		3000000003	2,019,827.00									NIL	NIL
6	Gas Compressor, 23 inch Piston & Rod ass	101305000023			43,009.27									NIL	NIL
7	CapitalSpareforFY2023-24_GT				2,351,000.00									NIL	NIL
8	CHROMATOGRAPH-GAS,ROSEMOUNT SP	101305000023		3000001694	589,735.00									NIL	NIL
				TOTAL	16,127,360.47										
				TOTAL	87,665,066.70										

CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 280/GT/2020

Coram:

Shri P. K. Pujari, Chairperson
Shri I. S. Jha, Member
Shri Pravas Kumar Singh, Member

Date of Order: 27th January, 2022

In the matter of:

Petition for approval of tariff of Assam Gas Based Power Plant (291 MW) for the 2019-24 period.

And

In the matter of:

North Eastern Electric Power Corporation Limited,
Corporate Office: Brookland Compound,
Lower New Colony,
Shillong 793 003 ...Petitioner

Vs

1. Assam Power Distribution Company Limited,
'Bijulee Bhawan', Paltanbazar,
Guwahati 781 001

2. Meghalaya Power Distribution Corporation Limited,
Lumjinshai, Short Round Road,
Shillong -799001

3. Tripura State Electricity Corporation Limited,
Bidyut Bhavan, North Banamalipur,
Agartala -799 001

4. Power & Electricity Department,
Government of Mizoram,
New Secretariat Complex, Kawlpetha,
Aizwal- 796001

5. Manipur State Power Distribution Company Limited,
3rd Floor, New Directorate Building,
Near 2nd M.R Gate, Imphal- Dimapur Road,
Imphal- 795001

6. Department of Power, Vidyut Bhawan,
Government of Arunachal Pradesh,
Itanagar-791111

7. Department of Power, Government of Nagaland,
Electricity House, A G Colony,
Kohima- 797001

8. North Eastern Regional Power Committee,
NERPC Complex, Dong Parmaw, Lapalang,
Shillong-793006

9. North Eastern Regional Load Despatch Centre,
Dongtieh, Lower Nongrah, Lapalang,
Shillong -793006

...Respondents

For Petitioner: Shri Devapriya Choudhury, NEEPCO
Shri Prabal Mukhopadhaya, NEEPCO
Shri Elizabeth Pyrbot, NEEPCO

For Respondent: Shri Indrajit Tahbildar, APDCL

ORDER

This petition has been filed by the Petitioner, NEEPCO for approval of tariff of Assam Gas Based Power Plant (291 MW) (in short 'the generating station') for the 2019-24 tariff period in terms of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as "the 2019 Tariff Regulations").

2. Assam Gas Based Power Plant is a Combined Cycle Power generating station and comprises of six Gas Turbines each of 33.5 MW capacity and three Steam Turbine each of 30 MW capacity. The exhaust of each Gas Turbine is fed into a Waste Heat Recovery Boiler. The steam from two such boilers is used to run one Steam Turbine Generator set. Thus, there are three Combined Cycle Modules. The

generating station uses natural gas as its fuel and the natural gas from the oil fields of Assam is received at a pressure of about 5.5 kg/cm^2 and is fed to a Gas Booster station to increase the pressure to about 21 kg/cm^2 before being fed to the gas stations. The dates of commercial operation of the units of the generating station are as follows:

	Date of Commercial Operation	Capacity (MW)
GT-I	1.5.1995	33.5
GT-II	1.5.1995	33.5
GT-III	1.7.1995	33.5
GT-IV	1.8.1995	33.5
GT-V	1.4.1997	33.5
GT-VI	1.4.1997	33.5
ST-I	1.4.1999	30
ST-II	1.4.1999	30
ST-III	1.4.1999	30
Generating Station	**1.4.1999**	**291**

3. The Commission by order dated 21.12.2021 in Petition No. 298/GT/2019 had revised the tariff of the generating station for the 2014-19 tariff period, after truing-up exercise of the actual additional capital expenditure incurred in respect of the generating station. The capital cost and the annual fixed charges determined by order dated 21.12.2021 are as under:

Capital Cost allowed

(Rs. in lakh)

	2014-15	2015-16	2016-17	2017-18	2018-19
Opening capital cost	149746.94	149585.66	151200.12	154392.78	154867.66
Net additional capital expenditure	(-)161.28	1614.46	3192.66	474.88	(-)296.73
Closing capital cost	**149585.66**	**151200.12**	**154392.78**	**154867.66**	**154570.93**

Annual Fixed Charges allowed

(Rs. in lakh)

	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	1634.38	1726.22	2116.15	2608.66	3039.68
Interest on Loan	8.41	10.85	103.70	182.39	89.55
Return on Equity	14360.98	15503.09	17736.39	16087.87	14898.41
Interest on Working Capital	2334.78	2416.76	2529.65	2562.33	2603.95
O&M Expenses	9728.13	10388.70	11095.83	11852.43	1658.50
Annual Fixed Charges	**28066.69**	**30044.62**	**33581.72**	**33293.88**	**33290.09**

4. The annual fixed charges claimed by the Petitioner for the 2019-24 tariff period are as follows:

(Rs. In lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	5186.54	6153.36	7496.08	8413.30	**11796.35**
Interest on Loan	281.20	687.47	610.13	1058.34	**1031.36**
Return on Equity	14805.64	14894.65	14964.02	15006.78	**15077.47**
Interest on Working Capital	1875.17	1832.59	1875.91	1921.04	**1996.52**
O&M Expenses	10537.11	10906.68	11290.80	11686.56	**12096.87**
Annual Fixed Charges	**32685.66**	**34474.75**	**36236.94**	**38086.02**	**41998.57**

5. The Commission vide Record of the Proceeding (RoP) of the hearing dated 13.4.2021, directed the Petitioner to submit certain additional information. The Respondent No.1, Assam Power Distribution Company Limited (APDCL), has filed its reply vide affidavit dated 3.5.2021. The Petitioner vide separate affidavits dated 13.5.2021 has filed the additional information and also its rejoinder to the reply of the Respondent APDCL. Thereafter, the Commission after hearing the parties on 29.6.2021 reserved its order in the matter. Taking into consideration the submissions of the parties and the documents available on record, we proceed to examine the claims of the Petitioner, on prudence check, as stated in the subsequent paragraphs.

Capital Cost

6. Regulation 19 of the 2019 Tariff Regulations provides as under:

"19. Capital Cost: (1) The Capital cost of the generating station or the transmission system, as the case may be, as determined by the Commission after prudence check in accordance with these regulations shall form the basis for determination of tariff for existing and new projects.

(2) xxxx

(3) The Capital cost of an existing project shall include the following:

- *(a) Capital cost admitted by the Commission prior to 1.4.2019 duly trued up by excluding liability, if any, as on 1.4.2019;*
- *(b) Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;*
- *(c) Capital expenditure on account of renovation and modernisation as admitted by this Commission in accordance with these regulations;*

(d) *Capital expenditure on account of ash disposal and utilization including handling and transportation facility;*

(e) *Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal upto the receiving end of generating station but does not include the transportation cost and any other appurtenant cost paid to the railway; and*

(f) *Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.*

xxx

(5) The following shall be excluded from the capital cost of the existing and new projects:

(a) *The assets forming part of the project, but not in use, as declared in the tariff petition;*

(b) *De-capitalised Assets after the date of commercial operation on account of replacement or removal on account of obsolescence or shifting from one project to another project:*

Provided that in case replacement of transmission asset is recommended by Regional Power Committee, such asset shall be de-capitalised only after its redeployment;

Provided further that unless shifting of an asset from one project to another is of permanent nature, there shall be no de-capitalization of the concerned assets.

(c) *In case of hydro generating stations, any expenditure incurred or committed to be incurred by a project developer for getting the project site allotted by the State Government by following a transparent process;*

(d) *Proportionate cost of land of the existing project which is being used for generating power from generating station based on renewable energy; and*

(e) *Any grant received from the Central or State Government or any statutory body or authority for the execution of the project which does not carry any liability of repayment.'*

7. The Petitioner has claimed capital cost of Rs.165682.03 lakh as on 1.4.2019. The Commission vide its order dated 21.12.2021 in Petition No. 298/GT/2019 has approved the closing capital cost of Rs.154570.93 lakh as on 31.3.2019. This has been considered as the opening capital cost as on 1.4.2019 for the purpose of approval of tariff for the 2019-24 tariff period.

Additional Capital Expenditure

8. Regulation 25(2) of the 2019 Tariff Regulations provides as under:

"25(2) In case of replacement of assets deployed under the original scope of the existing project after cut-off date, the additional capitalization may be admitted by the Commission, after making necessary adjustments in the gross fixed assets and the cumulative depreciation, subject to prudence check on the following grounds:

(a) The useful life of the assets is not commensurate with the useful life of the project and such assets have been fully depreciated in accordance with the provisions of these regulations;

(b) The replacement of the asset or equipment is necessary on account of change in law or Force Majeure conditions;

(c) The replacement of such asset or equipment is necessary on account of obsolescence of technology; and

(d) The replacement of such asset or equipment has otherwise been allowed by the Commission. "

9. The Petitioner in Form-9A of the petition has claimed total projected additional capital expenditure for the 2019-24 tariff period in terms of sub-clauses (c) and (d) of clause (2) of Regulation 25 of the 2019 Tariff Regulations as under:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
3456.50	5780.00	1440.00	3023.00	4250.00

10. The claims for additional capitalisation under Regulation 25(2) of the 2019 Tariff Regulations, can be categorised as (i) Additional capital expenditure in respect of works already approved but are continued/ spilled over from the 2014-19 tariff period; and (ii) additional capital expenditure in respect of new items. The admissibility of the additional capital expenditure claimed by the Petitioner are examined on prudence check of the justification furnished by the Petitioner in the subsequent paragraphs.

(i) Additional capital expenditure in respect of works already approved but continued/ spilled over from the 2014-19 tariff period

11. The additional capital expenditure claimed in terms of Regulation 25(2)(c) and Regulation 25(2)(d) of the 2019 Tariff Regulations is summarised and examined below:

(Rs. In lakh)

Sl. No.	Work/items	Regulation	2019-20	2020-21	2021-22	2022-23	2023-24
1	Replacement of old Waukesha Gas Engine 12V275 GL of Unit-4 of GBS along with all auxiliaries like Air Cooled Heat Exchanger (ACHE), Fuel filter.	25(2)(d)	2010.00	-	-	-	-
2	Revamping/modification of the Compressor of GBS Unit-4.	25(2)(d)	944.00	-	-	-	-
3	Up-gradation of 7200-series, BENTELY-NEVADA make Vibration monitoring system of GT-1 and GT-2.	25(2)(c)	110.00	-	-	-	-
4	Replacement of existing UPS with battery Bank for GT controllers and Online monitoring system.	25(2)(c)	120.00	-	-	-	-
5	Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) of MHI Gas Turbine Unit-1.	25(2)(d)	-	-	-	1900.00	-
6	Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) of MHI Gas Turbine Unit-2.	25(2)(d)	-	1900.00	-	-	-
	Total additional capital expenditure clamed		**3184.00**	**1900.00**	**0.00**	**1900.00**	**0.00**

a) *Up-gradation of 7200-series, BENTELY-NEVADA make Vibration monitoring system (VMS) of Gas Turbine-1 and Gas Turbine-2*

12. The Petitioner has claimed projected additional capital expenditure of Rs.110 lakh Up-gradation of 7200-series, BENTELY-NEVADA make Vibration Monitoring System (VMS) of Gas Turbine-1 and Gas Turbine-2 in 2019-20 under Regulation 25(2)(c) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that the asset has been declared as obsolete by the OEM and also spare

support is not available. The Petitioner has also submitted that the Commission in its order dated 15.2.2016 in Petition No. 41/GT/2015 had allowed an amount of Rs.50.00 lakh for GT-1 & GT-2 in 2015-16 against which only GT-4 was commissioned for Rs.27.13 lakh. Against the amount of Rs.46.53 lakh allowed in 2016-17 for up-gradation of VMS of GT-3 & GT-4, only GT-3 was commissioned for Rs.31.19 lakh and an amount of Rs.71.14 lakh in 2018-19 allowed for up-gradation work of VMS of GT-1 & GT-2 could not be executed/ completed during 2018-19. The Petitioner has submitted that order has already been placed for GT-1& GT-2 and materials have been received and work shall be executed in 2019-20.

13. The Respondent APDCL has submitted that the Petitioner has not furnished the obsolescence certificate of OEM, test results by independent agency and other supporting documents in terms of the Regulations. It has further submitted that the gross value of the old asset may be adjusted from the accrued cost. The Petitioner has clarified that the 7200-series, BENTELY-NEVADA make VMS became obsolete and spare support was also not available since 1993. It has stated that with the help of mandatory spares, the Petitioner was able to run the system till that time. The Petitioner has added that as VMS is very critical for high speed machine, up-gradation of the same may be allowed.

14. The matter has been examined. The Commission in its order dated 21.12.2021 in Petition No. 298/GT/2019 had considered the additional capitalisation claimed by the Petitioner for this asset/work for the 2014-19 tariff period and held as under:

> *"34. It is noticed that the additional capital expenditure claimed by the Petitioner was allowed vide order dated 15.2.2016 in Petition No. 41/GT/2015. Considering the fact that the total actual additional capital expenditure of Rs.58.32 lakh (i.e. Rs.27.13 lakh in 2016-17 for Unit 4 and Rs.31.19 lakh in 2018-19 for Unit 3) claimed in Form 9A, is claimed towards efficient operation of the generating station, in on account of existing*

asset having become obsolete and does not exceed the total additional capital expenditure of Rs.167.67 lakh allowed vide order dated 15.2.2016 in Petition No. 41/GT/2015, the actual additional capital expenditure of Rs.58.32 lakh (Rs.27.13 lakh for Unit 4 in 2016-17 and Rs.31.19 lakh for Unit 3 in 2018-19) incurred by the Petitioner for up-gradation of 7200/3300 series, Bentley Nevada make Vibration Monitoring system is allowed under Regulation 14(3)(vii) of the 2014 Tariff Regulations. However, the de-capitalisation amount towards up-gradation of Order in Petition No. 298/GT/2019 Page 22 of 58 7200/3300 series, Bentley Nevada make Vibration Monitoring system, could not be traced from the information furnished in Form 9Bi of the petition. In view of this, the de-capitalisation amount of Rs.17.48 lakh in 2015-16 and Rs.19.44 lakh in 2016-17 as considered for the said asset/works, in order dated 15.2.2016 in Petition No. 41/GT/ 2015 has been considered for de-capitalisation in this order."

15. It is noticed from the above that against the total additional capital expenditure of Rs.167.67 lakh allowed vide order dated 15.2.2016 in Petition No.41/GT/2015 (for 6 units), the Petitioner had incurred actual additional capital expenditure of Rs.58.32 lakh [for 2 Units (Unit-3 and Unit-4) out of 6 Units] in 2016-17 and 2018-19 and the same was allowed vide order dated 21.12.2021 in Petition No. 298/GT/2019. Accordingly, the balance amount available for this work (4 Units) of Rs.109.35 lakh (Rs.167.67 lakh – Rs.58.32 lakh). Though the Petitioner has furnished the need for this asset/ work, it has, however, not furnished any reason/ justification for the spill over of the work from the previous tariff period. Considering the fact that the materials have been received and work is to be executed in 2019-20, we allow the additional capitalisation of the balance amount of Rs.109.35 lakh (for 4 Units) in 2019-20 (as against the claim for Rs.110 lakh) in terms of Regulation 25(2)(c) of the 2019 Tariff Regulations along with the corresponding de-capitalisation of Rs.28.04 lakh, as allowed in the order dated 15.2.2016 in Petition No. 41/GT/2015. The Petitioner is, however, directed to furnish the actual audited completion cost for the said work along with reasons for the increase in cost and segregation of increased cost at the time of truing-up of tariff for this generating station for the 2019-24 tariff period.

b) *Replacement of existing UPS with battery Bank for GT Controllers and Online Monitoring System*

16. The Petitioner has claimed projected additional capital expenditure of Rs.120 lakh for Replacement of existing UPS with Battery Bank for GT controllers and Online Monitoring System in 2019-20 under Regulation 25(2)(c) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that the existing UPS system has been in service since the commissioning of the generating station in 1995 and has been declared as obsolete by OEM. It has also stated that due to expiry of useful life, it has become necessary to replace the UPS with Battery. The Petitioner has further submitted that the Commission in its order dated 15.2.2016 in Petition No. 41/GT/2015 had allowed Rs.104 lakh for this asset/ item in 2016-17 and order for the same has already been placed and will be executed in 2019-20.

17. The Respondent APDCL has submitted that the Commission may examine and decide accordingly. The Petitioner has, however, clarified as under:

a. The UPS system including Battery for GT controller and online monitoring system have commissioned in 1995;
b. As per guidelines of OEM, the life period of Tubular Type (Microscopic Rubber) battery is 10-14 years and Pasted Type (Microscopic Rubber) is 5-7 years.
c. The Commission has already admitted this item for 2016-17 for an amount of Rs. 104.00 lakh and the works has already been completed in 2019-20;
d. As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension.

18. The matter has been considered. It is noticed that the Commission vide its order dated 15.2.2016 in Petition No. 41/GT/2015 had allowed the projected additional capital expenditure of Rs.104 lakh for this asset/ item in 2016-17. However, no claim

was made by the Petitioner at the time of truing up of tariff for the 2014-19 tariff period. Though the Petitioner has furnished the need for this asset/ work, it has, however, not furnished any reason/ justification for the spill over of the work from the previous tariff period. Considering the fact that the work has been completed in 2019-20, we allow the additional capitalisation of Rs.104 lakh only, for this asset/ item in 2019-20 in terms of Regulation 25(2)(c) of the 2019 Tariff Regulations with corresponding de-capitalisation of Rs.39.71 lakh (as allowed in the order dated 15.2.2016 in Petition No. 41/GT/2015). The Petitioner is, however, directed to furnish the actual audited completion cost for the said work along with reasons for the increase in cost and segregation of increased cost at the time of truing-up of tariff for this generating station for the 2019-24 tariff period.

c) *Replacement of old Waukesha Gas Engine 12V275 GL of Unit# 4 of the generating station along with all auxiliaries*

19. The Petitioner has claimed projected additional capital expenditure of Rs.2010 lakh in 2019-20 for Replacement of old Waukesha Gas Engine 12V 275 GL of Unit- 4 along with all auxillaries like Air Cooled Heat Exchanger (ACHE), Fuel filter etc., under Regulation 25(2)(d) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that Gas engines have become old and obsolete and in order to get the desired output, the replacement of engine is essential. It has also submitted that the capacity of the engines has also been enhanced to meet the requirement.

20. The Respondent APDCL has submitted that the reason for the Petitioner not taking any initiative to get the work done in 2017-18 could not be understood. It has further submitted that the cost of the item/ asset has increased by Rs.362.40 lakh in 2019-20 in comparison to the cost in 2017-18 as admitted by the Petitioner, which

further increases the financial burden on the beneficiaries. The Respondent has, therefore, prayed to examine the matter and deduct the excess expenditure incurred due to delay in execution of the work by the Petitioner. In response, the Petitioner has clarified as under:

a. There are four (4) number GBS Units. It was decided to carry out R&M of GBS in phase manner. Accordingly, order was placed in the year 2013-14 and commissioned by the year 2017-18.

b. The R&M of 4th GBS Unit was completed by 2019-20. The reason for R&M of 4th unit in later phase in consideration of condition of 4th GBS unit, utilization of remaining inventories, process time for tendering/order placement, delivery, and commissioning etc.

c. It cannot be presumed that due to commissioning of the 4th unit in later stage, would attract more the financial implication.

21. The matter has been examined. It is observed that the claim of the Petitioner for actual additional capitalisation of Rs.5097 lakh for this asset in 2016-17 was considered and allowed by the Commission in order dated 21.12.2021 in Petition No. 298/GT/2019 as under:

"15. We have considered the submissions. It is observed that the additional capital expenditure claimed by the Petitioner in respect of the said work was allowed by order dated 15.2.2016 in Petition No.41/GT/2015. Considering the fact that the actual additional capital expenditure of Rs.5097.00 lakh for this asset/ work is claimed towards efficient operation of the generating station and does not exceed the total additional capital expenditure of Rs.6153.36 lakh allowed vide order dated 15.2.2016, the actual additional capital expenditure of Rs.5097.00 lakh claimed by the Petitioner is allowed in terms of Regulation 14(3)(vii) of the 2014 Tariff Regulations. However, as the de-capitalisation amount could not be traced from Form 9Bi furnished by the Petitioner, the de-capitalisation amount of Rs.2151.28 lakh, as considered for said work in order dated 15.2.2016 in Petition No. 41/GT/2015, has been considered."

22. It is observed that against the total projected additional capital expenditure of Rs.6153.36 lakh allowed for this asset/ item vide order dated 15.2.2016 in Petition No.41/GT/2015, the Petitioner had incurred actual additional capital expenditure of Rs.5097.00 lakh for this asset/ work in 2016-17. Thus, a balance amount of Rs.1056.36 lakh is only available for the said asset/item. Though the Petitioner has

furnished the need for this asset/ work, it has, however, not furnished any reason/ justification for the spill over of the work from the previous tariff period. In view of this, we allow only the balance amount of Rs.1056.36 lakh for the said asset/ item in 2019-20 under Regulation 25(2)(d) of the 2019 Tariff Regulations. The Petitioner is, however, directed to furnish the actual audited completion cost for the said work along with reasons for the increase in cost and segregation of increased cost at the time of truing-up of tariff for this generating station for the 2019-24 tariff period.

d) *Revamping/modification of Compressor of GBS Unit-4*

23. The Petitioner has claimed projected additional capital expenditure of Rs.944.00 lakh in 2019-20 for Revamping/Modification of compressor of GBS Unit-4 under Regulation 25(2)(d) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that commensurate with the capacity enhancement of gas engine, it is proposed to revamp the Gas compressor from 27000 Nm^3/hr to 28000 Nm^3/hr along with replacement of two second stage compressor cylinders from 15" to 16.25" and replacement of two first stage cylinders with a new one. It has also stated that the capacity enhancement of Gas compressors will benefit in terms of the capacity of the generating station for running six GT units with three Gas compressors.

24. The Respondent APDCL has submitted that the reason for the Petitioner not taking any initiative to get the work done in 2017-18 could not be understood and this has led to increase in financial burden on the beneficiaries. The Respondent has, therefore, prayed to examine the matter and deduct the excess expenditure incurred

due to delay in execution of the work by the Petitioner. The Petitioner has submitted the same clarification as submitted in paragraph 20 above.

25. It is observed that against the total additional capital expenditure of Rs.3273.58 lakh allowed vide order dated 15.2.2016 in Petition No. 41/GT/2015, the Petitioner had claimed total actual additional capital expenditure of Rs.2735.21 lakh in 2015-16 under Regulation 14(3)(vii) of the 2014 Tariff Regulations for the said asset/ item in Petition No. 298/GT/2019. However, the Commission in its order dated 21.12.2021 decided as under:

> *"17. We have considered the submissions in the matter. Considering the fact that the actual additional capital expenditure amounting to Rs.2735.21 lakh for this asset/ work is claimed towards efficient operation of the generating station is on account of obsolescence of existing asset and does not exceed the total additional capital expenditure of Rs.3273.58 lakh as allowed by order dated 15.2.2016 in Petition No. 41/GT/2015 for the 2014-19 tariff period, the actual additional capital expenditure of Rs.2735.21 lakh claimed by the Petitioner is allowed under Regulation 14(3)(vii) of the 2014 Tariff Regulations. However, as the de-capitalisation amount could not be traced from Form 9Bi furnished by the Petitioner, the de-capitalisation amount of Rs.1144.48 lakh, as considered for said work in order dated 15.2.2016 in Petition No. 41/GT/2015, has been considered."*

26. It is evident from the above that the balance amount of Rs.538.37 lakh (Rs.3273.58 lakh – Rs.2735.21 lakh) is yet to be incurred by the Petitioner in respect of the said asset/ work. Though the Petitioner has furnished the need for this asset/ work, it has, however, not furnished any reason/ justification for the spill over of the work from the previous tariff period. In view of this, we allow only the balance additional capital expenditure of Rs.538.37 lakh for this asset/ item under Regulation 25(2)(d) of the 2019 Tariff Regulations. The Petitioner is, however, directed to furnish the actual audited completion cost for the said work along with reasons for the increase in cost and segregation of increased cost at the time of truing-up of tariff for this generating station for the 2019-24 tariff period.

e) *Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) of MHI Gas Turbine Unit-1*

27. The Petitioner has claimed projected additional capital expenditure of Rs.1900 lakh for comprehensive rotor inspection and compressor rotor refurbishment of MHI Gas Turbine Unit-1 in 2022-23 under Regulation 25(2)(d) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that as per recommendation of the OEM (M/s MHI, Japan) a comprehensive inspection of Turbine rotor and refurbishment of Compressor rotor of Gas Turbine was necessary, in order to obtain the desired output of the Turbine after 1(one) lakh fired hours and this would enhance the life of the Gas Turbine. The Petitioner has further submitted that the Commission had allowed the additional capitalisation of Rs.1167.96 lakh in 2018-19 for this asset/ item in its order dated 15.2.2016 in Petition No. 41/GT/2015. It has stated that the works could not be completed within the 2014-19 tariff period due to standard schedule of the OEM. The Petitioner has, however, submitted that the refurbishment work of rotor is already in progress and shall be executed in 2022-23.

28. The Respondent APDCL has submitted that the essential works duly required by the Petitioner was allowed by the Commission in 2018-19. The Respondent has also submitted that the reason for the Petitioner not taking any initiative to get the work done in 2018-19 could not be understood and this has led to increase in financial burden on the beneficiaries. The Respondent has, therefore, prayed to examine the matter and deduct the excess expenditure incurred due to delay in execution of the work by the Petitioner. The Petitioner has clarified that the work order for CRR & CRI did not have any clause for price escalation. It has also submitted that the expenditure of Rs.1900.00 lakh is not the escalated price due to delay in work, but the price

inclusive of taxes and freight, wherein, an amount of Rs.1167.96 lakh was the 'Free On Board' amount.

29. The matter has been examined. It is observed that the Commission had allowed projected additional capitalisation of Rs.3503.88 lakh, towards the revamping and refurbishment of rotors (both Unit-1 and Unit-2) under Regulation 14(3)(7) of the 2014 Tariff Regulations but did not permit the purchase of new rotor (one in number) in order dated 15.2.2016 in Petition No 41/GT/2015. It is, however, noticed that as against allowed projected additional capitalisation of Rs.3503.88 lakh, an amount of Rs.1912.02 lakh was allowed for Comprehensive rotor inspection and compressor rotor refurbishment of MHI Gas Turbine Unit-2 in order dated 21.12.2021 in Petition No. 298/GT/2019. Hence, the balance amount of Rs.1591.86 lakh is only to be incurred against revamping and refurbishment of the rotors. The Petitioner has clarified that the works could not be completed within the 2014-19 tariff period due to standard schedule of the OEM and that the refurbishment work of rotor is already in progress and shall be executed in 2022-23. The Petitioner has also clarified that the work order for CRR & CRI did not have any clause for price escalation and that the expenditure of Rs.1900.00 lakh is not the escalated price due to delay in work, but the price inclusive of taxes and freight, wherein, an amount of Rs.1167.96 lakh was the 'Free On Board' amount. In view of this, as of now, we allow only the balance additional capital expenditure of Rs.1591.86 lakh for this asset/ item under Regulation 25(2)(d) of the 2019 Tariff Regulations. The Petitioner is directed to furnish the actual audited completion cost for the said work along with reasons for the increase in cost and segregation of increased cost at the time of truing-up of tariff for this generating station for the 2019-24 tariff period.

f) *Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) of MHI Gas Turbine Unit-2*

30. The Petitioner has claimed projected additional capital expenditure of Rs.1900 lakh for comprehensive rotor inspection and compressor rotor refurbishment of MHI Gas Turbine Unit-2 in 2020-21 under Regulation 25(2)(d) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that as per recommendation of the OEM (M/s MHI, Japan) a comprehensive inspection of Turbine rotor and refurbishment of Compressor rotor of Gas Turbine was necessary, in order to obtain the desired output of the Turbine after 1(one) lakh fired hours and this would enhance the life of the Gas Turbine. The Petitioner has further submitted that the Commission had allowed the additional capitalisation of Rs.1167.96 lakh in 2017-18 for this asset/ item in its order dated 15.2.2016 in Petition No. 41/GT/2015. It has stated that the works could not be completed within the 2014-19 tariff period due to standard schedule of the OEM. The Petitioner has, however, submitted that the refurbishment work of rotor is already in progress and shall be executed in 2020-21.

31. The Respondent APDCL has submitted that the essential works duly required by the Petitioner was allowed by the Commission in 2017-18. The Respondent has also submitted that the reason for the Petitioner not taking any initiative to get the work done in 2017-18 could not be understood and this has led to increase in financial burden on the beneficiaries. The Respondent has, therefore, prayed to examine the matter and deduct the excess expenditure incurred due to delay in execution of the work by the Petitioner. The Petitioner has clarified that the work order for CRR & CRI did not have any clause for price escalation. It has also submitted that the expenditure of Rs.1900.00 lakh is not the escalated price due to delay in work, but the price

inclusive of taxes and freight, wherein, an amount of Rs.1167.96 lakh was the 'Free On Board' amount.

32. The matter has been examined. It is observed that the Petitioner has claimed actual additional capital expenditure of Rs.1912.02 lakh (Rs.1553.23 lakh in 2017-18 and Rs.358.80 lakh in 2018-19) for Comprehensive Rotor Inspection and Compressor Rotor Refurbishment of MHI Gas Turbine Unit-2 under Regulation 14(3)(vii) of the 2014 Tariff Regulations in Petition No. 298/GT/2019 and the Commission vide its order dated 21.12.2021 had allowed the additional capitalisation as under:

> *"28. It is noticed that the additional capital expenditure claimed by the Petitioner was allowed by order dated 15.2.2016 in Petition No. 41/GT/2015. Considering the fact that the actual additional capital expenditure of Rs.1912.02 lakh is claimed towards efficient operation of the generating station and does not exceed the additional capital expenditure of Rs.3503.88 lakh allowed vide order dated 15.2.2016 in Petition No. 41/GT/2015, the actual additional capital expenditure of Rs.1912.02 lakh incurred by the Petitioner for comprehensive Rotor Inspection and Compressor Rotor Refurbishment of MHI Gas Turbine Unit-2 is allowed in terms of Regulation 14(3)(vii) of the 2014 Tariff Regulations. However, the de-capitalisation amount towards comprehensive Rotor Inspection and Compressor Rotor Refurbishment of MHI Gas Turbine Unit-2 could not be traced from the information furnished in Form 9Bi of the petition. In view of this, the de-capitalisation amount of Rs.2117.12 lakh for said work, as considered in order dated 15.2.2016 in Petition No. 41/GT/2015, has been considered for de-capitalisation in this order."*

33. Considering the fact that the Petitioner has submitted that the work order for CRR & CRI did not have any clause for price escalation and that the expenditure of Rs.1900.00 lakh is not the escalated price due to delay in work, but the price inclusive of taxes and freight, wherein, an amount of Rs.1167.96 lakh was the 'Free On Board' amount and also the fact that the actual additional capital expenditure of Rs.1912.02 lakh for this asset/ item had already been allowed by order dated 21.12.2021 in Petition No. 298/GT/2019, we are not inclined to allow the additional capital expenditure of Rs.1900.00 lakh claimed by the Petitioner in respect of the said asset/ item for Unit-2 in 2020-21. For the Commission to consider any expenditure in 2019-

24 period, the Petitioner is directed to furnish the actual audited completion cost for the said work along with reasons for the increase in cost and segregation of increased cost at the time of truing-up of tariff for this generating station for the 2019-24 tariff period.

(ii) Additional capital expenditure in respect of new items

34. As stated, the Petitioner has claimed projected additional capital expenditure of the following asset/items for the 2019-24 tariff period under Regulation 25(2)(c) and Regulation 25(2)(d) of the 2019 Tariff Regulations:

(Rs. in lakh)

Sl. No.	Assets/items	Regulation	2019-20	2020-21	2021-22	2022-23	2023-24
1	Up gradation of 3300-series, BENTELY-NEVADA make temperature monitoring system of STG-1 and STG-2	25(2)(c)	130.00	-	-	-	-
2	R&M/ Up gradation of Automatic Voltage Regulators of BHEL STG Unit-2	25(2)(c)	20.00	-	-	-	-
3	Replacement of 245 kV SF6 Circuit Breakers in the 220 kV Switchyard for 1(one) unit out of total 14 numbers of Breaker (2 outgoing feeders, 1 BC, 2 Stn Xmer and 9 Generating Units)	25(2)(c)	20.00	-	-	-	-
4	Up-gradation of CO2 Flooding System of GT Unit-1	25(2)(c)	40.00	-	-	-	-
5	Sulphuric Acid dosing system in water circulating system of Steam Turbine Units including civil structure	25(2)(d)	62.50	-	-	-	-
6	Up-gradation of 7200/3300 series, Bentley Nevada make	25(2)(c)	0.00	70.00	-	-	-

Sl. No.	Assets/items	Regulation	2019-20	2020-21	2021-22	2022-23	2023-24
	Vibration Monitoring system of STG-3						
7	R&M/ LE for-GT Unit-6 with uprating of turbine parts for efficiency improvement	25(2)(c)	0.00	3000.00	-	-	-
8	R&M/ up gradation of Automatic Voltage Regulators of BHEL GT Unit-5 and Unit-6	25(2)(c)	0.00	60.00	-	-	-
9	HMI up-gradation for Mark vie GT Control system of Unit # 5 and Unit # 6	25(2)(c)	0.00	120.00	-	-	-
10	Replacement of 245 kV SF6 Circuit Breakers in the 220 kV Switchyard for 7 (seven) unit out of total 14 numbers of Breaker (2 outgoing feeders, 1 BC, 2 StnXmer and 9 Generating Units)	25(2)(c)	0.00	150.00	-	-	-
11	Replacement of Electro Mechanical Relays by Numerical relays in auxiliary system of GTG, STG Unit, 6.6 kV and 415 V MCC	25(2)(c)	0.00	20.00	-	-	-
12	Spare 1 set of HV/LV Coil for BHEL make 3 ph 11/245 kV 50 MVA Transformer	25(2)(d)	0.00	100.00	-	-	-
13	Procurement of Standalone EL and DR for the Power station	25(2)(d)	0.00	40.00	-	-	-
14	Up-gradation of CO2 Flooding System of GT Unit-2, Unit-3 and Unit-4	25(2)(c)	0.00	90.00	-	-	-
15	Renovation of cooling tower	25(2)(c)	0.00	140.00	-	-	-
16	Up-gradation of Generator protection relays from solid state to Numerical relay for GTG 1~4 (for one unit)	25(2)(c)	0.00	40.00	-	-	-
17	Procurement of 1000	25(2)(c)	0.00	50.00	-	-	-

Sl. No.	Assets/Items	Regulation	2019-20	2020-21	2021-22	2022-23	2023-24
	LPH Transformer Oil Filtration machine & BDV test Kit						
18	Replacement of 245 kV SF6 Circuit Breakers in the 220 kV Switchyard for 6 (six) unit out of total 14 numbers of Breaker (2 outgoing feeders, 1 BC, 2 Stn Xmer and 9 Generating Units)	25(2)(c)	0.00	0.00	150.00	-	-
19	Replacement of 220 kV Generator CT and Line Feeder CT with 0.2S accuracy as per regulation to be done in phase wise - 1st phase 12 Numbers (total 14 bay X 3 Numbers each = 42 Numbers)	25(2)(c)	0.00	0.00	40.00	-	-
20	Up-gradation of Generator protection relays from solid state to Numerical relay for GTG 1~4 (for one unit)	25(2)(c)	-	-	40.00	-	-
21	1 (one) set of HV/LV Spare Coil for Mitsubishi make 50 MVA Transformer	25(2)(c)	-	-	110.00	-	-
22	Renovation and Modernization of Governor system of STG Unit 1 along with DDC Pro Control System	25(2)(d)	-	-	850.00	-	-
23	Renovation of APRDS System of STG Units	25(2)(d)	-	-	60.00	-	-
24	Renovation of SWAS System for Module-I	25(2)(d)	-	-	40.00	-	-
25	Switch over of conventional Chlorine dozing system into Chlorine di-oxide	25(2)(d)	-	-	150.00	-	-
26	Replacement of 220 kV Generator CT and Line Feeder CT with 0.2S accuracy as per	25(2)(c)	-	-	-	40.00	-

Sl. No.	Assets/Items	Regulation	2019-20	2020-21	2021-22	2022-23	2023-24
	regulation to be done in phase wise - 2nd phase 12 Numbers (total 14 bay X 3 Numbers each = 42 Numbers)						
27	Replacement of 220 kV Generator CT and Line Feeder CT with 0.2S accuracy as per regulation to be done in phase wise - 2nd phase 12 Numbers (total 14 bay X 3 Numbers each = 42 Numbers)	25(2)(c)	-	-	-	40.00	-
28	Renovation of DM Plant	25(2)(d)	-	-	-	125.00	-
29	Renovation of SWAS System for Module-II	25(2)(d)	-	-	-	40.00	-
30	Renovation and Modernization of Governor system of STG Unit-2 along with DDC Pro Control System	25(2)(d)	-	-	-	850.00	-
31	Replacement of 2 (two) number old and used 125 V battery banks of Gas Turbine Units #5 & Unit #6	25(2)(c)	-	-	-	28.00	-
32	Replacement of 220 kV Generator CT and Line Feeder CT with 0.2S accuracy as per regulation to be done in phase wise - 3rd phase 12 Numbers (total 14 bay X 3 Numbers each = 42 Numbers)	25(2)(c)	-	-	-	-	40.00
33	Up gradation of Generator protection relays from solid state to Numerical relay for GTG 1~4 (for one unit)	25(2)(c)	-	-	-	-	40.00
34	Replacement/ up Total gradation of 24 V/220	25(2)(c)	-	-	-	-	60.00

Sl. No.	Assets/items	Regulation	2019-20	2020-21	2021-22	2022-23	2023-24
	V DC Battery charger for STG Units (6 sets out of 12 sets)						
35	R&M/ LE for-GT Unit-5 with uprating of turbine parts for efficiency improvement	25(2)(d)	-	-	-	-	3,000.00
36	Renovation and Modernization of Governor system of STG Unit-3 along with DDC Pro Control System	25(2)(c)	-	-	-	-	850.00
37	Renovation of SWAS System for Module-III	25(2)(d)	-	-	-	-	40.00
38	Replacement / up-gradation of 48 V DC PLCC battery bank Charger 2 Numbers	25(2)(c)	-	-	-	-	20.00
39	Asset Monitoring System for 220 kV Switchyard and Transformer Yard	25(2)(d)	-	-	-	-	200.00
	Total	**10965.50**	**272.50**	**3880.00**	**1440.00**	**1123.00**	**4250.00**

35. On scrutiny of the projected additional capital expenditure claimed towards the above assets/ items (39 numbers), it is observed that the installation of new assets/ items relates to Renovation and Modernisation/ Life extension and fall under R&M activities in terms of Regulation 27 of the 2019 Tariff Regulations. Though the Petitioner has made submissions on the life extension of some of the individual items, it has not submitted any clarification on life extension of the units/ generating station. We notice that COD of the generating station is 1.4.1999 and, therefore, the useful life of 25 years of the generating station expires on 31.3.2024. Hence, the projected additional capital expenditure of Rs.10965.50 lakh claimed by the Petitioner during the fag end of useful life of the generating station, is required to be examined in the light of

Regulation 27 of 2019 Tariff Regulations. Regulation 27 of the 2019 Tariff Regulations provides as under:

"27. Additional Capitalization on account of Renovation and Modernization

(1) The generating company or the transmission licensee, as the case may be, intending to undertake renovation and modernization (R&M) of the generating station or unit thereof or transmission system or element thereof for the purpose of extension of life beyond the originally recognized useful life for the purpose of tariff, shall file a petition before the Commission for approval of the proposal with a Detailed Project Report giving complete scope, justification, cost-benefit analysis, estimated life extension from a reference date, financial package, phasing of expenditure, schedule of completion, reference price level, estimated completion cost including foreign exchange component, if any, and any other information considered to be relevant by the generating company or the transmission licensee:

Provided that the generating company making the applications for renovation and modernization (R&M) shall not be eligible for Special Allowance under Regulation 28 of these regulations;

Provided further that the generating company or the transmission licensee intending to undertake renovation and modernization (R&M) shall be required to obtain the consent of the beneficiaries or the long-term customers, as the case may be, for such renovation and modernization (R&M) and submit the same along with the petition.

(2) Where the generating company or the transmission licensee, as the case may be, makes an application for approval of its proposal for renovation and modernisation (R&M), approval may be granted after due consideration of reasonableness of the proposed cost estimates, financing plan, schedule of completion, interest during construction, use of efficient technology, cost-benefit analysis, expected duration of life extension, consent of the beneficiaries or long term customers, if obtained, and such other factors as may be considered relevant by the Commission.

(3) In case of gas/liquid fuel based open/ combined cycle thermal generating station after 25 years of operation from date of commercial operation, any additional capital expenditure which has become necessary for renovation of gas turbines/steam turbine or additional capital expenditure necessary due to obsolescence or non-availability of spares for efficient operation of the stations shall be allowed:

Provided that any expenditure included in the renovation and modernisation (R&M) on consumables and cost of components and spares which is generally covered in the O&M expenses during the major overhaul of gas turbine shall be suitably deducted from the expenditure to be allowed after prudence check.

(4) After completion of the renovation and modernisation (R&M), the generating company or the transmission licensee, as the case may be, shall file a petition for determination of tariff. Expenditure incurred or projected to be incurred and admitted by the Commission after prudence check, and after deducting the accumulated depreciation already recovered from the admitted project cost, shall form the basis for determination of tariff."

36. The Petitioner has claimed total additional capital expenditure of Rs.10965.50 lakh towards Renovation & Modernisation activities for the 2019-24 tariff period, in terms of Regulation 25(2) of 2019 Tariff Regulations (i.e. additional capital expenditure within original scope and after the cut-off date) without any proposal for life extension of the generating station. Since the additional capitalisation of these assets/ items are on account of R&M, we are of the view that the matter would fall within the ambit of Regulation 27 of the 2019 Tariff Regulations (Additional Capitalisation on account of Renovation & Modernisation). We, therefore, grant liberty to the Petitioner to approach the Commission with appropriate application for Renovation & Modernisation/ Life extension of units/ generating station in terms of Regulation 27 of the 2019 Tariff Regulations. In this background, the projected additional capital expenditure of Rs.10965.50 lakh claimed towards R&M activities is not allowed. In our view, any requirement for Repairs & Maintenance for the interim period i.e. up to the end of life of the generating station during the 2019-24 tariff period, can be met by the Petitioner from the normative O&M expenses allowed for the generating station under Regulation 35(1)3) of the 2019 Tariff Regulations and any need for replacement of capital spares may be considered for reimbursement on actuals in terms of Regulation 35(6) of the 2019 Tariff Regulations.

De-capitalization

37. The Petitioner has submitted the de-capitalisation details in 'Form I' of the petition. Due to variation in the nomenclature of the items of additional capitalisation, there is difficulty in mapping the items mentioned in Form-I with the additional capitalisation claimed in 'Form 9A'. In view of this, we allow the corresponding de-capitalisation of the additional capitalisation items allowed as per order dated

15.2.2016 in Petition No. 41/GT/2015. The Petitioner is, however, directed to submit the details of de-capitalisation, properly mapped with the additional capitalisation at the time of truing-up of tariff of the generating station for the 2019-24 tariff period. Based on this, the de-capitalisation claimed and allowed for the 2019-24 tariff period is summarised below:

(Rs. in lakh)

De-capitalization	2019-20	2020-21	2021-22	2022-23	2023-24
Claimed	1178.28	1992.73	499.92	1049.48	1406.02
Allowed	67.75	0.00	0.00	0.00	0.00

38. The projected additional capital expenditure and de-capitalisation allowed for the 2019-24 tariff period is summarised below:

(Rs. in lakh)

Sl. No.	Work/Items	2019-20	2020-21	2021-22	2022-23	2023-24
A	**Allowed additional capital expenditures in respect of works already approved but continued/ spilled over from the 2014-19 tariff period**					
1	Replacement of old Waukesha Gas Engine 12V275 GL of Unit# 4 of GBS along with all auxiliaries like Air Cooled Heat Exchanger (ACHE), Fuel filter					
	Claimed	2010.00	0.00	0.00	0.00	0.00
	Allowed	**1056.36**	**0.00**	**0.00**	**0.00**	**0.00**
2	Revamping/modification of the Compressor of GBS Unit # 4					
	Claimed	944.00	0.00	0.00	0.00	0.00
	Allowed	**538.37**	**0.00**	**0.00**	**0.00**	**0.00**
3	Up gradation of 7200-series, BENTELY-NEVADA- make Vibration monitoring system of Gas Turbine -1 and Turbine-2					
	Claimed	110.00	0.00	0.00	0.00	0.00
	Allowed	**109.35**	**0.00**	**0.00**	**0.00**	**0.00**
4	Replacement of existing UPS with battery Bank for GT controllers and Online monitoring system					
	Claimed	120.00	0.00	0.00	0.00	0.00
	Allowed	**104.00**	**0.00**	**0.00**	**0.00**	**0.00**
5	Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) of MHI Gas Turbine Unit-1					
	Claimed	0.00	0.00	0.00	1900.00	0.00
	Allowed	0.00	0.00	0.00	1591.86	0.00
6	Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) of MHI Gas Turbine Unit-2					
	Claimed	0.00	1900.00	0.00	0.00	0.00
	Allowed	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Sl. No.	Work/Items	2019-20	2020-21	2021-22	2022-23	2023-24
	Total					
	Claimed	3184.00	1900.00	0.00	1900.00	0.00
	Allowed	1808.07	0.00	0.00	1591.86	0.00
B	Additional capital expenditure in respect of new items					
	Claimed	272.50	3860.00	1440.00	1123.00	4250.00
	Allowed	0.00	0.00	0.00	0.00	0.00
	De-capitalization (C)					
	Claimed	1176.26	1992.73	499.92	1049.48	1406.02
	Allowed	67.75	0.00	0.00	0.00	0.00
	Net additional capital expenditure (A+B-C)					
	Claimed	2278.22	3767.27	940.08	1973.52	2843.98
	Allowed	1740.32	0.00	0.00	1591.86	0.00

Capital cost allowed for the 2019-24 tariff period

39. Accordingly, the capital cost allowed is as under:

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	154570.93	156311.25	156311.25	156311.25	157903.11
Net additional capital expenditure allowed	1740.32	0.00	0.00	1591.86	0.00
Closing Capital Cost	**156311.25**	**156311.25**	**156311.25**	**157903.11**	**157903.11**
Average Capital cost	155441.09	156311.25	156311.25	157107.18	157903.11

Debt-Equity Ratio

40. Regulation 18 of the 2019 Tariff Regulations provides as under:

"18. Debt-Equity Ratio: (1) For new projects, the debt-equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:

Provided that:

i. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:

ii. the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:

iii. any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.

***Explanation**-The premium, if any, raised by the generating company or the transmission licensee, as the case may be, while issuing share capital and investment of internal resources created out of its free reserve, for the funding of the project, shall be*

reckoned as paid up capital for the purpose of computing return on equity, only if such premium amount and internal resources are actually utilised for meeting the capital expenditure of the generating station or the transmission system.

(2) The generating company or the transmission licensee, as the case may be, shall submit the resolution of the Board of the company or approval of the competent authority in other cases regarding infusion of funds from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the generating station or the transmission system including communication system, as the case may be.

(3) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, debt: equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2019 shall be considered:

Provided that in case of a generating station or a transmission system including communication system which has completed its useful life as on or after 1.4.2019, if the equity actually deployed as on 1.4.2019 is more than 30% of the capital cost, equity in excess of 30% shall not be taken into account for tariff computation;

Provided further that in case of projects owned by Damodar Valley Corporation, the debt: equity ratio shall be governed as per sub-clause (i) of clause (2) of Regulation 72 of these regulations.

(4) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, but where debt: equity ratio has not been determined by the Commission for determination of tariff for the period ending 31.3.2019, the Commission shall approve the debt: equity ratio in accordance with clause (1) of this Regulation.

(5) Any expenditure incurred or projected to be incurred on or after 1.4.2019 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this Regulation."

41. The details of debt and equity considered for the purpose of tariff are as follows:

	Capital Cost as on 1.4.2019 *(Rs. in lakh)*	[%]	Additional Capital Expenditure 2019-24 *(Rs. in lakh)*	[%]	Capital Cost as on 31.3.2024 *(Rs. in lakh)*	[%]
Debt	79210.97	51.25%	2332.53	70.00%	81543.50	51.64%
Equity	75359.96	48.75%	999.65	30.00%	76359.61	48.36%
Total	**154570.93**	**100.00%**	**3332.18**	**100.00%**	**157903.11**	**100.00%**

Return on Equity

42. Regulation 30 and Regulation 31 of the 2019 Tariff Regulations provide as under:

"30. Return on Equity: (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with Regulation 18 of these regulations.

(2) Return on equity shall be computed at the base rate of 15.50% for thermal generating station, transmission system including communication system and run-of-river hydro generating station, and at the base rate of 16.50% for the storage type hydro generating stations including pumped storage hydro generating stations and run-of-river generating station with pondage:

Provided that return on equity in respect of additional capitalization after cut-off date beyond the original scope shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or the transmission system

Provided further that:

i. In case of a new project, the rate of return on equity shall be reduced by 1.00% for such period as may be decided by the Commission, if the generating station or transmission system is found to be declared under commercial operation without commissioning of any of the Restricted Governor Mode Operation (RGMO) or Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system based on the report submitted by the respective RLDC;

ii. In case of existing generating station, as and when any of the requirements under (i) above of this Regulation are found lacking based on the report submitted by the concerned RLDC, rate of return on equity shall be reduced by 1.00% for the period for which the deficiency continues;

iii. In case of a thermal generating station, with effect from 1.4.2020:

a) rate of return on equity shall be reduced by 0.25% in case of failure to achieve the ramp rate of 1% per minute;

b) an additional rate of return on equity of 0.25% shall be allowed for every incremental ramp rate of 1% per minute achieved over and above the ramp rate of 1% per minute, subject to ceiling of additional rate of return on equity of 1.00%:

Provided that the detailed guidelines in this regard shall be issued by National Load Dispatch Centre by 30.6.2019."

"31. Tax on Return on Equity. (1) The base rate of return on equity as allowed by the Commission under Regulation 30 of these regulations shall be grossed up with the effective tax rate of the respective financial year. For this purpose, the effective tax rate shall be considered on the basis of actual tax paid in respect of the financial year in line with the provisions of the relevant Finance Acts by the concerned generating company or the transmission licensee, as the case may be. The actual tax paid on income from other businesses including deferred tax liability (i.e. income from business other than business of generation or transmission, as the case may be) shall be excluded for the calculation of effective tax rate.

(2) Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

Rate of pre-tax return on equity = Base rate / (1-t)

Where "t" is the effective tax rate in accordance with clause (1) of this Regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance

Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of generating company or transmission licensee paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess.

Illustration-

(i) In case of a generating company or a transmission licensee paying Minimum Alternate Tax (MAT) @ 21.55% including surcharge and cess:

Rate of return on equity = 15.50/(1-0.2155) = 19.758%

(ii) In case of a generating company or a transmission licensee paying normal corporate tax including surcharge and cess:

(a)Estimated Gross Income from generation or transmission business for FY 2019-20 is Rs 1,000 crore;
(b)Estimated Advance Tax for the year on above is Rs 240 crore;
(c)Effective Tax Rate for the year 2019-20 = Rs 240 Crore/Rs 1000 Crore = 24%;
(d)Rate of return on equity = 15.50/ (1-0.24) = 20.395%.

(3) The generating company or the transmission licensee, as the case may be, shall true up the grossed up rate of return on equity at the end of every financial year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2019-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries or the long term customers, as the case may be, on year to year basis."

43. For grossing up of Return on Equity (ROE) during the 2019-24 tariff period, the Petitioner has applied the MAT rate of 17.472% and the same has been allowed. This is, however, subject to revision, if any, at the time of truing up of tariff. Accordingly, ROE has been worked out and allowed based on the admitted additional capital expenditure as under:

Return on Equity on Normal rate

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Normative Equity-Opening	75359.96	75339.63	75339.63	75339.63	75339.63
Addition of Equity due to additional capital expenditure	0.00	0.00	0.00	0.00	0.00
De-capitalization	20.33	0.00	0.00	0.00	0.00
Normative Equity-Closing	75339.63	75339.63	75339.63	75339.63	75339.63
Average Normative Equity	75349.79	75339.63	75339.63	75339.63	75339.63

	2019-20	2020-21	2021-22	2022-23	2023-24
Return on Equity (Base Rate)	15.500%	15.500%	15.500%	15.500%	15.500%
Tax Rate for the year	17.472%	17.472%	17.472%	17.472%	17.472%
Rate of Return on Equity (Pre-Tax)	18.782%	18.782%	18.782%	18.782%	18.782%
Return on Equity (Pre-Tax) annualized	**14152.20**	**14150.29**	**14150.29**	**14150.29**	**14150.29**

Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law) at the weighted average rate of interest on actual loan portfolio

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Notional equity	0.00	542.42	542.42	542.42	1019.98
Addition due to Additional Capitalization (after cut of date)	542.42	0.00	0.00	477.56	0.00
De-capitalization	0.00	0.00	0.00	0.00	0.00
Closing Equity	**542.42**	**542.42**	**542.42**	**1019.98**	**1019.98**
Average Equity	271.21	542.42	542.42	781.20	1019.98
Weighted average rate of interest on actual loan portfolio	9.783%	9.783%	9.783%	9.783%	9.783%
Return on Equity	**26.53**	**53.07**	**53.07**	**76.42**	**99.78**

Interest on Loan

44. Regulation 32 of the 2019 Tariff Regulations provides as under:

"32. *Interest on loan capital: (1) The loans arrived at in the manner indicated in Regulation 18 of these regulations shall be considered as gross normative loan for calculation of interest on loan.*

(2) The normative loan outstanding as on 1.4.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2019 from the gross normative loan.

(3) The repayment for each of the year of the tariff period 2019-24 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of de-capitalization of assets, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered upto the date of de-capitalisation of such asset.

(4) Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be, the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.

(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized:

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered;

Provided further that if the generating station or the transmission system, as the

case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.

(6)The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

(7)The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing."

45. The normative loan for the project has already been repaid. The normative loan on account of the admitted additional capital expenditure during the respective years of the tariff period has been considered as paid fully, as the admitted depreciation is more than the amount of normative loan in these years. As such, the Interest on loan during the 2019-24 tariff period is 'nil'.

Depreciation

46. Regulation 33 of the 2019 Tariff Regulations provides as under:

"33. Depreciation: (1) Depreciation shall be computed from the date of commercial operation of a generating station or unit thereof or a transmission system or element thereof including communication system. In case of the tariff of all the units of a generating station or all elements of a transmission system including communication system for which a single tariff needs to be determined, the depreciation shall be computed from the effective date of commercial operation of the generating station or the transmission system taking into consideration the depreciation of individual units:

Provided that effective date of commercial operation shall be worked out by considering the actual date of commercial operation and installed capacity of all the units of the generating station or capital cost of all elements of the transmission system, for which single tariff needs to be determined.

(2)The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission. In case of multiple units of a generating station or multiple elements of a transmission system, weighted average life for the generating station of the transmission system shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis.

(3)The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable;

Provided further that in case of hydro generating stations, the salvage value shall be as provided in the agreement, if any, signed by the developers with the State Government for development of the generating station:

Provided also that the capital cost of the assets of the hydro generating station for the purpose of computation of depreciated value shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff:

Provided also that any depreciation disallowed on account of lower availability of the generating station or unit or transmission system as the case may be, shall not be allowed to be recovered at a later stage during the useful life or the extended life.

(4)Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.

(5)Depreciation shall be calculated annually based on Straight Line Method and at rates specified in ***Appendix-I*** *to these regulations for the assets of the generating station and transmission system:*

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the effective date of commercial operation of the station shall be spread over the balance useful life of the assets.

(6)In case of the existing projects, the balance depreciable value as on 1.4.2019 shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to 31.3.2019 from the gross depreciable value of the assets.

(7)The generating company or the transmission licensee, as the case may be, shall submit the details of proposed capital expenditure five years before the completion of useful life of the project along with justification and proposed life extension. The Commission based on prudence check of such submissions shall approve the depreciation on capital expenditure.

(8)In case of de-capitalization of assets in respect of generating station or unit thereof or transmission system or element thereof, the cumulative depreciation shall be adjusted by taking into account the depreciation recovered in tariff by the de-capitalized asset during its useful services.'

47. Depreciation has been worked out considering the admitted capital expenditure as on 31.3.2019 and accumulated depreciation of Rs.123736.71 lakh up to 31.3.2019. Since the generating station has completed 12 years of operation in the year 2010-11, the remaining depreciable value has been spread over the balance useful life of the assets. Depreciation calculated in terms of the above regulation is allowed as under:

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	154570.93	156311.25	156311.25	156311.25	157903.11
Add: Additional Capital Expenditure	1740.32	0.00	0.00	1591.86	0.00
Closing Capital Cost	156311.25	156311.25	156311.25	157903.11	157903.11
Average Capital Cost	155441.09	156311.25	156311.25	157107.18	157903.11

Value of freehold land	150.17	150.17	150.17	150.17	150.17
Depreciable value (excluding land) @ 90%	139761.83	140544.97	140544.97	141261.31	141977.64
Balance useful life of the assets	4.92	3.92	2.92	1.92	0.92
Balance depreciable Value	16079.75	13594.65	10126.63	7374.94	4250.16
Rate of depreciation	2.10%	2.22%	2.22%	2.44%	2.69%
Depreciation (annualized)	**3268.24**	**3468.02**	**3468.02**	**3841.11**	**4250.16**
Less: Cumulative depreciation adjustment on account of de-capitalization	54.63	0.00	0.00	0.00	0.00
Cumulative depreciation (at the end of the period)	126950.32	130418.34	133886.37	137727.48	141977.64

Operation & Maintenance Expenses

48. Regulation 35(1)(3) of the 2019 Tariff Regulations provides the year-wise O&M expense norms for the generating station as follows:

(in Rs. lakh/MW)

2019-20	2020-21	2021-22	2022-23	2023-24
36.21	37.48	38.8	40.16	41.57

49. The Petitioner has claimed normative O&M expenses for the 2019-24 tariff period as follows:

(Rs. In lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
10537.11	10906.68	11290.80	11686.56	12096.87

50. Since the normative O&M expenses claimed by the Petitioner is in terms of Regulation 35(1)(3) of the 2019 Tariff Regulations, the same is allowed.

Water Charges, Security Expenses and Capital Spares

51. As per Regulation 35(1)(6) of the 2019 Tariff Regulations, the water charges, security expenses and Capital spares for thermal generating stations are to be allowed separately. Regulation 35(1)(6) of 2019 Tariff Regulations provides as under:

> *"35(1)(6) The Water Charges, Security Expenses and Capital Spares for thermal generating stations shall be allowed separately after prudence check:*

Provided that water charges shall be allowed based on water consumption depending upon type of plant and type of cooling water system, subject to prudence check. The details regarding the same shall be furnished along with the petition;
Provided further that the generating station shall submit the assessment of the security requirement and estimated expenses;

Provided also that the generating station shall submit the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification for incurring the same and substantiating that the same is not funded through compensatory allowance as per Regulation 17 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 or Special Allowance or claimed as a part of additional capitalization or consumption of stores and spares and renovation and modernization."

Water Charges

52. The Petitioner has claimed water charges as per revised tariff formats in terms of the first proviso to Regulation 35(1)(6) of 2019 Tariff Regulations. On perusal of the documents furnished by the Petitioner, it has been observed that the water charges of Rs.10 lakh for each year of the 2019-24 tariff period claimed are on account of 'Consent to operate' (air and water), which is a mandatory procedure for all power plants. Keeping in view that the expenditure towards Consent to operate form part of the normative O&M expenses allowed to the generating station, we are not inclined to allow the water charges claimed by the Petitioner, for the 2019-24 tariff period.

Security Expenses

53. As regards Security expenses, the Petitioner has submitted that it has claimed security expenses (on projection basis) based on the expenditure incurred in the preceding years, as under:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
455.62	478.43	502.26	527.24	553.37

54. The Petitioner has thereafter submitted that the actual security expenses incurred is Rs.408.56 lakh for 2019-20 and Rs.337.65 lakh for 2020-21. In view of this,

the actual security expenses incurred by the Petitioner for 2019-20 and 2020-21 along with the projected security expenses for Rs.502.26 lakh in 2021-22, Rs.527.24 lakh in 2022-23 and Rs.553.37 lakh in 2023-24 lakh is allowed. This is, however, subject to the Petitioner submitting the actual payments/ bills along with relevant details as per Regulation 35(1)(6) of the 2019 Tariff Regulations. Accordingly, the Security expenses allowed are summarised below:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
408.56	337.65	502.26	527.24	553.37

Capital Spares

55. The Petitioner has submitted that it will claim capital spares consumed at the time of truing-up of tariff, in terms of the last proviso to Regulation 35(1)(6) of the 2019 Tariff Regulations. In view of this, no capital spares have been considered in this order. The Petitioner is at liberty to claim capital spares consumed, on actual basis, in terms of the last proviso to Regulation 35(1)(6) of the 2019 Tariff Regulations.

56. Based on the above, the O&M expenses allowed as per Regulation 35(1) and Regulation 35(6) of the 2019 Tariff Regulations are summarised below:

	2019-20	2020-21	2021-22	2022-23	2023-24
Installed Capacity (MW)	291.00	291.00	291.00	291.00	291.00
O&M expense norms as per Regulation 35(1) of the 2019 Tariff Regulations (in Rs. lakh / MW)	36.21	37.48	38.80	40.16	41.57
Normative O&M expenses allowed (in Rs. lakh) (A)	10537.11	10906.68	11290.80	11686.56	12096.87
Regulation 35(1)(6) of the 2019 Tariff Regulations					
Water Charges *(in Rs. lakh)*	0.00	0.00	0.00	0.00	0.00
Security Expenses *(in Rs. lakh)*	408.56	337.65	502.26	527.24	553.37
Capital Spares consumed *(in Rs. lakh)*	0.00	0.00	0.00	0.00	0.00
Total O&M Expenses allowed	**10945.67**	**11244.33**	**11793.06**	**12213.80**	**12650.24**

Operational Norms

57. The operational norms claimed by the Petitioner is as under:

Normative Annual Plant Availability Factor (NAPAF) %	72.00
Gross Station Heat Rate (kcal/kwh)	2600.00
Auxiliary Power Consumption %	2.75

58. Since the operational norms claimed by the Petitioner as above, are in accordance with Regulation 49 of the 2019 Tariff Regulations, the same is allowed.

Interest on Working Capital

59. Regulation 34 of the 2019 Tariff Regulations specify as under:

"34. Interest on Working Capital: (1) The working capital shall cover:

(b) For Open-cycle Gas Turbine/Combined Cycle thermal generating stations:

(i) Fuel cost for 30 days corresponding to the normative annual plant availability factor, duly taking into account mode of operation of the generating station on gas fuel and liquid fuel;

(ii) Liquid fuel stock for 15 days corresponding to the normative annual plant availability factor, and in case of use of more than one liquid fuel, cost of main liquid fuel duly taking into account mode of operation of the generating stations of gas fuel and liquid fuel;

(iii) Maintenance spares @ 30% of operation and maintenance expenses including water charges and security expenses;

(iv) Receivables equivalent to 45 days of capacity charge and energy charge for sale of electricity calculated on normative plant availability factor, duly taking into account mode of operation of the generating station on gas fuel and liquid fuel; and

(v) Operation and maintenance expenses, including water charges and security expenses, for one month."

xxx

"(3) Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2019 or as on 1st April of the year during the tariff period 2019-24 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later:

Provided that in case of truing-up, the rate of interest on working capital shall be considered at bank rate as on 1st April of each of the financial year during the tariff period 2019-24.

(4) Interest on working capital shall be payable on normative basis notwithstanding that the generating company or the transmission licensee has not taken loan for working capital from any outside agency."

(a) Fuel Cost for computation of working capital

60. The Petitioner has claimed the following fuel components for computation of working capital in Form 15, based on the price and GCV of gas for preceding three months of January 2019, February 2019 and March 2019.

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
2903.25	2903.25	2903.25	2903.25	2903.25

61. Accordingly, the fuel cost for 30 days for computation of working capital has been allowed as under:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
3025.54	3025.54	3025.54	3025.54	3025.54

62. The variation in fuel components claimed by the Petitioner as against the fuel components allowed as above, is mainly due to the difference in the weighted average value of GCV and landed cost of gas considered by Petitioner and those allowed.

(b) Energy/Variable Charges for computation of working capital

63. The Petitioner has claimed Energy Charge Rate (ECR) of Rs.2.156/kWh for 2019-20 and Rs.1.385/kWh for the period 2020-24, based on the average price and GCV of gas for the preceding three months i.e., from January 2019 to March 2019. Based on the operational norms, the GCV and price of domestic gas for the preceding three months i.e., January 2019, February 2019 and March 2019, the ECR, on ex-power plant basis, has been considered for computation of working capital as under :

	Unit	2019-20 to 2023-24
Capacity	MW	291.00
Fuel	Gas	
Normative Heat Rate	kCal/kWh	2600.00

	Unit	2019-20 to 2023-24
Auxiliary Energy Consumption	%	2.75%
Weighted Average rate of Fuel	Rs. /1000SCM	7.129
Weighted Average GCV of Fuel	kCal/SCM	9242.16
Rate of energy charge ex-bus	**Rs./Unit**	**2.062**

64. ECR in Rs./kWh on ex-power plant on month-to-month basis shall be calculated up to three decimal places in accordance with the formulae given in Regulation 42 of the 2019 Tariff Regulations.

(c) Energy Charges for 45 days for computation of working capital

65. Energy charges for 45 days on the basis of the weighted average GCV and weighted average cost for the purpose of computation of working capital has been worked out and allowed as under:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
4537.61	4537.61	4537.61	4537.61	4537.61

(d) Maintenance Spares for computation of working capital

66. Regulation 34(1)(b)(ii) of the 2019 Tariff Regulations provides for Maintenance spares @ 30% of the O&M expenses. Accordingly, maintenance spares for the computation of working capital have been allowed as under:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
3283.70	3373.30	3537.92	3664.14	3795.07

(e) Receivables for computation of working capital

67. Regulation 34(1)(b)(iv) of the 2019 Tariff Regulations provides for Receivables for 45 days. Accordingly, receivables for computation of working capital is allowed as under:

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Variable Charges (45 days)	4537.61	4537.61	4537.61	4537.61	4537.61
Fixed Charges (45 days)	3720.23	3782.09	3838.72	3942.91	4042.41
Total	**8257.85**	**8319.70**	**8376.34**	**8480.52**	**8580.02**

(f) O&M Expenses (1 month) for computation of working capital

68. Regulation 34(1)(b)(v) of the 2019 Tariff Regulations provides for O&M expenses including water charges and security expenses for one month. Accordingly, the O&M expenses for computation of working capital is allowed as follows:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
912.14	937.03	962.76	1017.62	1054.19

(g) Rate of Interest on working capital

69. In accordance with Regulation 34(3) of the 2019 Tariff Regulations, the rate of interest on working capital considered on projection basis, for the 2019-24 tariff period is 12.05% (i.e., 1-year SBI MCLR of 8.55% as on 1.4.2019 + 350 basis points). As the tariff of the generating station for the 2019-24 tariff period is being determined during the year 2021-22, the SBI MCLR as on 1.4.2020 (7.75%) and as on 1.4.2021(7.00%) is available, which is lower in comparison of the same, as on 1.4.2019 (8.55%). Since, the rate of interest on working capital is subject to revision at the time of truing-up of tariff, based on the bank rate as on 1st April of each financial year, we find it prudent to allow the rate of interest as on 1.4.2020 and 1.4.2021, for the subsequent financial years. Accordingly, the rate of interest for 2019-20 is 12.05%, 2020-21 is 11.25% and for the subsequent years the rate of interest of 10.50% has been considered (i.e., 1-year SBI MCLR of 7.75% as on 1.4.2020 + 350 basis points and 1-year SBI MCLR of 7.00% as on 1.4.2021 + 350 basis points).

70. Accordingly, Interest on Working Capital is allowed as under:

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Working Capital for Fuel Cost	3025.54	3025.54	3025.54	3025.54	3025.54
Working Capital for O & M expenses	912.14	937.03	962.76	1017.82	1064.19
Working Capital for Maintenance Spares	3283.70	3373.30	3537.92	3664.14	3795.07
Working Capital for Receivables	8257.85	8319.70	8376.34	8480.52	8580.02
Total Working Capital	**15479.22**	**15655.57**	**15922.55**	**16188.01**	**16454.81**
Rate of Interest	12.05%	11.25%	10.50%	10.50%	10.50%
Total Interest on Working capital	**1865.25**	**1761.25**	**1671.87**	**1699.74**	**1727.76**

Annual Fixed Charges

71. The annual fixed charges approved for the generating station for the period from 1.4.2019 to 31.3.2024 are summarised below:

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	3268.24	3468.02	3468.02	3841.11	4250.16
Interest on Loan	0.00	0.00	0.00	0.00	0.00
Return on Equity	14178.73	14203.35	14203.35	14226.71	14250.07
O&M Expenses	10945.67	11244.33	11793.06	12213.80	12650.24
Interest on Working Capital	1865.25	1761.25	1671.87	1699.74	1727.76
Total	**30257.89**	**30676.96**	**31136.31**	**31981.37**	**32878.23**

72. The annual fixed charges determined as above are subject to truing-up in terms of Regulation 13 of the 2019 Tariff Regulations.

Application Filing Fees and Publication Expenses

73. The Petitioner has also sought reimbursement of fees paid by it for the 2019-24 tariff period for filing the tariff petition and the publication expenses incurred for the same. The Petitioner shall be entitled for reimbursement of the filing fees and publication expenses in connection with the present petition, directly from the beneficiaries on pro-rata basis in accordance with Regulation 70(1) of the 2019 Tariff Regulations.

74. Petition No.280/GT/2020 is disposed of in terms of the above.

Sd/-	*Sd/-*	*Sd/-*
(Pravas Kumar Singh)	(I.S. Jha)	(P.K. Pujari)
Member	Member	Chairperson

Annexure-C

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

Name of the Power Station: DASSAM GAS BASED POWER STATION STATE : Assam

In Lakh

		AFC as per the Truing up Revised petition					AFC approved vide order dated 27.01.2022 against Petition No.280/GT/2020				
Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
1	Return on Equity	14436.35	14720.41	14768.75	14912.78	15101.95	14178.73	14208.35	14208.35	14236.71	14250.07
2	Interest on Loan						0.00	0.00	0.00	0.00	0.00
3	Depreciation	3301.11	3631.87	4260.48	5512.68	7805.44	3268.24	3468.02	3468.02	3841.11	4250.15
4	Interest on Working Capital	1951.17	1790.32	1358.66	1698.71	3847.17	1865.25	1761.25	1671.87	1699.74	1727.79
5	Normative O & M Expenses	10537.11	10906.88	11290.8	11686.56	12096.87	10537.11	10906.88	11290.8	11686.56	12096.87
6	Security Expenses	408.560	337.649	329.039	352.774	495.081	408.56	337.65	302.26	317.24	559.37
7	Water Charges										
8	Capital Spare	1076.48	2547.83269	151.28934	181.3727	643.839356					
	Total	31710.78268	34134.7631	32159.016	34344.88	39990.3533	30257.89	30676.95	31138.3	31981.36	32876.23

AFC approved vide order dated 27.01.2022 against Petition No.280/GT/2020						
Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	Return on Equity	257.62	517.06	565.4	686.07	851.88
2	Interest on Loan	0	0	0	0	0
3	Depreciation	32.87	363.85	792.46	1671.57	3555.28
4	Interest on Working Capital	85.92	29.07	-313.21	-1.03	2119.41
5	O & M Expenses	0	0	0	0	0
6	Security Expenses	0.00043	-0.00074	-173.2213	-174.466	-58.289199
7	Water Charges	0	0	0	0	0
8	Capital Spare	1076.478101	2547.83269	151.28934	181.3727	643.839356
	Total	**1452.89**	**3457.81**	**1022.72**	**2363.52**	**7112.12**

ISO 9001:2015
ISO 14001:2015
ISO 27001:2013
ISO 45001:2018
ISO 50001:2018

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कार्पोरेशन लिमिटेड
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
भारत सरकार का उद्यम A Govt. of India Enterprise
मिनीरत्न : श्रेणी-I Miniratna : Category-I
एनटीपीसी लिमिटेड की पूर्ण स्वामित्व वाली सहायक कंपनी A wholly owned subsidiary of NTPC Ltd.
ASSAM GAS BASED POWER STATION
(NOTESHEET / IOM)

फाइल नं./ File No. NEEPCO/AGBPS/HOP/C-39/2024-25/248 दिनांक/ Date: 25/10/2024

इंटर ऑफिस मेमो
Inter Office Memo

से / From: HOP, AGBPS | **सेवा में/To:** ED (Commercial), Shillong

SUB: Submission of data pertains to truing up application for the tariff period 2019-24

REF: NEEPCO/ED/COMML/F-94/2024-25/03 dtd. 03/04/2024

Please find enclosed herewith Cost Accountant Certificate in original along with statement of data / Annexures required for filling up truing up petition for the tariff period 2014-24.

Submitted for your kind perusal and consideration, please.

(Opang Ering)
CGM (T) & HOP, AGBPS
NEEPCO Limited, Bokuloni, Dibrugarh

Encl: As above

Memo No. NEEPCO/AGBPS/HOP/C-39/2024-25/ 249 Dated: 25/10/2024

Copy for kind information to:
1. The ED (O&M), for his kind information, please.

(Opang Ering)
CGM (T) & HOP, AGBPS
NEEPCO Limited, Bokuloni, Dibrugarh

MONUJ GOGOI & CO.
COST ACCOUNTANT

Ph. No. (+91) 88119 14671
e-mail : monujb25@gmail.com

Ref. No. M&C/93 *Date:* 25/10/2024

COST ACCOUNTANT' CERTIFICATE

We have examined the attached Statement of Capitalization and De-Capitalization of Assets for the period 2019-20 to 2023-24 of Assam Gas Based Power Station, at Bokuloni, Dist- Dibrugarh, Assam- 786191, a unit of M/S North Eastern Electric Power Corporation Limited with the relevant records.

Based upon our examination, we report that the above said attached statement for the financial year 2019-20 to 2023-24 are in agreement and so far appears from our examination of the records.

FOR MONUJ GOGOI & CO
COST ACCOUNTANT
Firm Reg. No. 001319

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

CMA MONUJ GOGOI
(Proprietor)
Membership No. 41585

Place: Duliajan,Assam
Date:25/10/2024

MONUJ GOGOI & CO.
COST ACCOUNTANT

Ph. No. (+91) 88119 14671
e-mail : monujb25@gmail.com

Ref. No. MISC/93 *Date:* 25/10/2024

AUDIT REPORT

We have audited the attached statement of Form-9 of Assam Gas Based Power Station pertaining to North Eastern Electric Power Corporation Ltd. for the financial year 2019-20, 2020-21, 2021-22, 2022-23, & 2023-24 with the relevant books and records and on the basis of explanation received from the authority found to be in conformity herewith of additional capitalization (put to use). Year wise break is given below:

1. 2019-20 for Rs.3390.19 Lacs
2. 2020-21 for Rs.674.92 Lacs
3. 2021-22 for Rs.388.89 Lacs
4. 2022-23 for Rs.3754.75 Lacs
5. 2023-24 for Rs.1167.09 Lacs

Total: Rs. 9,375.84 Lacs

Note: The statement consists of form-9 duly filled in the format supplied by NEEPCO Ltd.

FOR MONUJ GOGOI & CO
COST ACCOUNTANT
Firm Reg. No. 001319

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

CMA MONUJ GOGOI
(Proprietor)
Membership No. 41585
Place: Duliajan, Assam

MONUJ GOGOI & CO.
COST ACCOUNTANT

Ph. No: (+91) 88119 14671
e-mail : monujb25@gmail.com

Ref. No. MISC/94 *Date:* 25/10/2024

AUDIT REPORT

We have audited the attached statement of Form-17 of Assam Gas Based Power Station pertaining to North Eastern Electric Power Corporation Ltd. for the financial year 2019-20, 2020-21, 2021-22, 2022-23, & 2023-24 with the relevant books and records and on the basis of explanation received from the authority found to be in conformity herewith of Capital Spares (put to use). Year wise break is given below:

1. 2019-20 for Rs. 1196.09 Lacs
2. 2020-21 for Rs.2830.93 Lacs
3. 2021-22 for Rs.168.10 Lacs
4. 2022-23 for Rs.201.53 Lacs
5. 2023-24 for Rs.715.38 Lacs

Total **Rs. 5,112.03 Lacs**

Note: The statement consists of form-17 duly filled in the format supplied by NEEPCO Ltd.

FOR MONUJ GOGOI & CO
COST ACCOUNTANT
Firm Reg. No. 001319

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

CMA MONUJ GOGOI
(Proprietor)
Membership No. 41585
Place: Duliajan, Assam

MONUJ GOGOI & CO.
COST ACCOUNTANT

Ph. No. (+91) 88119 14671
e-mail : monujb25@gmail.com

Ref. No. MISC/95

Date: 25/10/2024

AUDIT REPORT

This is certify that the Security Expenses of Assam Gas Based Power Station pertaining to North Eastern Electric Power Corporation Ltd. for the financial year 2019-20, 2020-21, 2021-22, 2022-23, & 2023-24 with the relevant books and records and on the basis of explanation received from the authority found to be in conformity herewith. Year wise breakup is given as per Annexure – A enclosed, to an amounting Rs.1923.10 Lacs.

Annexure - A

Security Expenditure, AGBPS	
Year	**Amount (In Lakhs)**
19-20	Rs. 408.56
20-21	Rs. 337.65
21-22	Rs. 329.04
22-23	Rs. 352.77
23-24	Rs. 495.08
TOTAL	**Rs. 1923.10**

FOR MONUJ GOGOI & CO
COST ACCOUNTANT
Firm Reg. No. 001319

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

CMA MONUJ GOGOI
(Proprietor)
Membership No. 41585
Place: Duliajan, Assam

B.O.C. GATE, 1ST FLOOR BELOW LIC OFFICE, NEAR CENTRAL BANK, P.O. & P.S. : DULIAJAN, 786602, DIST. DIBRUGARH, ASSAM

SUMMARY SHEET

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

(Amount in lakhs)

SL	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9
1.1	Depreciation	Rs Lakh	3,039.68	3,301.11	3,563.47	3,827.90	5,026.12	7,071.85
1.2	Interest on Loan	Rs Lakh	89.55	-	-	-	-	-
1.3	Return on Equity [1]	Rs Lakh	14,898.41	14,436.35	14,720.41	14,708.75	14,012.78	15,101.66
1.4	Interest on Working Capital	Rs Lakh	2,603.95	1,951.17	1,786.48	1,352.91	1,692.24	3,838.00
1.5	O & M Expenses-Normative	Rs Lakh	12,658.50	10,537.11	10,906.66	11,280.80	11,686.58	12,098.87
1.6	Special allowance (if applicable)	Rs Lakh						
1.7	Compensation Allowance (if applicable)	Rs Lakh						
	ANNUAL FIXED COST BEFORE SECURITY EXPENSES, CAPITAL SPARES AND WATER CHARGES	**Rs Lakh**	**33,290.09**	**30,225.74**	**30,977.06**	**31,240.36**	**33,317.70**	**38,105.67**
	Security Expenses	Rs Lakh		408.56	337.85	329.04	352.77	495.08
	Water Charges	Rs Lakh		10.00	10.00	10.00	10.00	10.00
	Capital Spares	Rs Lakh		1,196.09	2,830.93	188.10	201.53	715.38
	Less 10% salvage value	Rs Lakh		119.61	283.09	18.81	20.15	71.54
	TOTAL AFC	**Rs Lakh**		**31,710.78**	**33,862.53**	**31,720.68**	**33,851.85**	**39,245.59**
2.1	Landed Fuel Cost Gas as per FSA approved by beneficiaries	(Rs/SCM)	7.26	7.50	7.11	4.17	6.77	20.62
	(%) of Fuel Quantity	%	NA	NA	NA	NA	NA	NA
2.2	Landed Fuel Cost Imported Coal as per FSA approved by beneficiaries	%	NA	NA	NA	NA	NA	NA
	(%) of Fuel Quantity		NA	NA	NA	NA	NA	NA
2.3	Target Generation (at 72% PAF)	MWh	17,84,921.83	17,89,812.03	17,84,921.83	17,84,921.83	17,84,921.83	17,89,812.03
	Gross Station HR (Open Cycle)	kCal/kWh	3,440.00	3,578.00	3,578.00	3,578.00	3,578.00	3,578.00
	Gross Station HR (Combined Cycle)	kCal/kWh	2,500.00	2,600.00	2,600.00	2,600.00	2,600.00	2,600.00
	GCV of fuel gas	kCal/SCM	9,202.94	9,094.08	9,187.35	9,167.97	9,167.76	9,166.13
2.4	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	(Rs/SCM)	NA	NA	NA	NA	NA	NA
	(%) of Fuel Quantity	%	NA	NA	NA	NA	NA	NA
	Energy Charge Rate ex-bus (Paisc/kWh) 2A,2B,2C,2D	Rs/KwH		2.20	2.07	1.22	1.97	6.00

उप महा प्रबन्धक (वि/प)
Dy. General Manager (E/M)
कार्य. प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/प) / संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

(Petitioner)

PART-I

FORM-1(I)

STATEMENT SHOWING CLAIMED CAPITAL COST:		
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Amount in lakhs)

Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.0	Opening Capital Cost	1,54,570.93	1,56,792.07	1,56,856.35	1,58,607.90	1,61,968.78
2.0	Add: Addition during the year/period	3,390.19	674.92	388.89	3,754.75	1,167.09
3.0	Less: De-capitalisation during the year/period	1,169.05	610.64	122.58	293.86	445.61
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period	-	-	1,385.24	-	-
6.0	Closing Capital Cost	1,56,792.07	1,56,856.35	1,58,607.90	1,61,968.78	1,62,690.27
7.0	Average Capital Cost	1,55,681.50	1,56,824.21	1,57,682.12	1,60,238.34	1,62,329.53

Statement showing claimed capital cost eligible for RoE at normal rate (A)						
Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1.0	Opening Capital Cost	1,54,570.93	1,56,666.54	1,56,730.82	1,58,382.37	1,61,843.25
2.0	Add: Addition during the year/period	3,264.66	674.92	388.89	3,754.75	1,126.32
3.0	Less: De-capitalisation during the year/period	1,169.05	610.64	122.58	293.86	445.61
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period	-	-	1,385.24	-	-
6.0	Closing Capital Cost	1,56,666.54	1,56,730.82	1,58,382.37	1,61,843.25	1,62,523.97
7.0	Average Capital Cost	1,56,619.00	1,56,699.00	1,57,557.00	1,60,113.00	1,62,184.00
		1,56,666.54	1,56,730.82	1,58,382.37	1,61,843.25	1,62,523.97

Statement showing claimed capital cost eligible for RoE at weighted average rate of interest on actual loan portfolio (B)						
Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1.0	Opening Capital Cost	-	125.53	125.53	125.53	125.53
2.0	Add: Addition during the year/period	125.53	-	-	-	40.77
3.0	Less: De-capitalisation during the year/period					
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period	-	-	-	-	-
6.0	Closing Capital Cost	125.53	125.53	125.53	125.53	166.30
7.0	Average Capital Cost	62.77	125.53	125.53	125.53	145.92

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/ख)/ मंडल प्रमुख
Chief General Manager (E/M) / HOP
ए.गे.बां.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

(Petitioner)

PART-I
FORM-1(IIA)

STATEMENT SHOWING RETURN ON EQUITY AT NORMAL RATE			
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station :	ASSAM GAS BASED POWER STATION		
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM

(Amount in lakhs)

Sl.	Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7
	Return on Equity						
1	Gross Opening Equity (Normal)	Rs Lakh	75,359.96	75,988.64	76,007.93	76,503.39	77,541.66
2	Less: Adjustment in Opening Equity	Rs Lakh	-	-	-	-	-
3	Adjustment during the year	Rs Lakh	-	-	-	-	-
4	Net Opening Equity (Normal)	Rs Lakh	75,359.96	75,988.64	76,007.93	76,503.39	77,541.66
5	Add: Increase in equity due to addition during the year / period	Rs Lakh	979.40	202.47	116.67	1,126.42	337.90
6	Less: Decrease due to De-capitalisation during the year / period	Rs Lakh	350.71	183.19	36.77	88.16	133.68
7	Less: Decrease due to reversal during the year / period	Rs Lakh	-	-	-	-	-
8	Add: Increase due to discharges during the year / period	Rs Lakh	-	-	415.57	-	-
9	Net closing Equity (Normal)	Rs Lakh	75,988.64	76,007.93	76,503.39	77,541.66	77,745.87
10	Average Equity (Normal)	Rs Lakh	75,674.30	75,998.29	76,255.66	77,022.52	77,643.76
11	Rate of ROE	Rs Lakh	18.78	18.78	18.78	18.78	18.78
12	Total ROE	Rs Lakh	14,213.15	14,274.00	14,322.34	14,466.37	14,583.05

(Petitioner)

Asstt. Manager (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Dibrugarh

Dy. General Manager (E/M)
AGBP, NEEPCO, Bokuloni

Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Bokuloni

PART-I
FORM-1(II)

STATEMENT SHOWING RETURN ON EQUITY AT WAROI			
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station :	ASSAM GAS BASED POWER STATION		
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM		

(Amount in lakhs)

Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)						
1	Gross Opening Equity (Normal)	0.00	37.66	37.66	37.66	37.66
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	0.00	37.66	37.66	37.66	37.66
5	Add: Increase in equity due to addition during the year / period	37.66	0.00	0.00	0.00	12.23
6	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
8	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
9	Net closing Equity (Normal)	37.66	37.66	37.66	37.66	49.89
10	Average Equity (Normal)	18.83	37.66	37.66	37.66	43.77
11	Rate of ROE	11.854	11.854	11.854	11.854	11.854
12	Total ROE	223.20	446.41	446.41	446.41	518.90

There is no actual loan . So interest is taken as 9.783% as per Tariff order dtd 21.12.21 Petition No. 298/GT/2019

(Petitioner)

Assit. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Dibrugarh

Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Rokuloni

Dy. General Manager (E/M)
AGBP, NEEPCO, Rokuloni

PLANT CHARACTERISTICS									
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.								
Name of the Generating Station :	Assam Gas Based Power Plant								
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM								
Unit(s)/Block(s) Parameters	*Unit 1*	*Unit 2*	*Unit 3*	*Unit 4*	*Unit 5*	*Unit 6*	*Unit 7*	*Unit 8*	*Unit 9*
Installed Capacity (MW)	33.5	33.5	33.5	33.5	33.5	33.5	30	30	30
Schedule COD as per Investment Approval									
Actual COD/Date of Taken Over (as applicable)	1.5.1995	1.5.1995	1.7.1995	1.8.1995	1.4.1997	1.4.1997	1.4.1999	1.4.1999	1.4.1999
Pit Head or Non Pit Head									
Name of the HRSG							Waste Heat Recovery Boiler		
Name of the Turbine Generator Manufacture	Mitsubishi Heavy Industry, Japan				BHEL				
Main steams Pressure at Turbine inlet (kg/Cm²)abs¹							43	43	43
Main steams Pressure at Turbine inlet (°C)¹									
LPSteams Pressure at Turbine inlet (kg/Cm²)¹									
LPSteams Temperature at Turbine inlet (°C)¹							473	473	473
Main Steam flow at Turbine inlet under MCR condition (tons/hr)²									
Main Steam flow at Turbine inlet under VWO condition (tons/hr)²									
Unit Gross electrical output under MCR/Rated condition (MW)²									
Unit Gross electrical output under VWO condition (MW)²									
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh)²									
Conditions on which design turbine cycle heat rate guaranteed.	2167	2167	2167	2167	2167	2167	2070	2070	2070
% MCR	100								
% Makeup Water Consumption							7	7	7
Design Capacity of Makeup Water System									
Design Capacity of Inlet Cooling System									
Design Cooling Water Temperature (°C)							27	27	27
Back Pressure							0.083	0.083	0.083
Steam flow at super heater outlet under BMCR condition (tons/hr) - Main/HP Steam									
Steam Pressure at super heater outlet under BMCR condition (kg/Cm²)- Main/HP Steam									

उप. महा प्रबंधक (वि/य)
Dy. General Manager (E/M)
कार्य. संयंत्र प्रमुख, Op ive Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manager(F)
AGBP LTD
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबंधक (वि/य)/संयंत्र प्रमुख
Chief General Manager (E/M)/ HOP
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Unit(s)/Block(s) Parameters	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
Steam Temperature at super heater outlet under BMCR condition (°C)- Main/HP Steam									
Steam flow at LP outlet under BMCR condition (tons/hr) - LP Steam									
Steam Pressure at LP outlet under BMCR condition (°C)- LP Steam									
SteamTemperature at LP outlet at BMCR condition (°C)- LP Steam									
Design/Guaranteed HRSG Efficiency (%)[4]									
Design Fuel with and without Blending of domestic/imported coal									
Type of Cooling Tower							Induced draft		
Type of Cooling System[5]							Closed Circuit		
Type of HRSG Feed Pump[6]							Motor Driven		
Fuel Details[7]	Natural gas								
- Primary Fuel	Natural Gas								
- Secondary Fuel	Nil	Nil	Nil	Nil	Nil	Nil			
- Alternate Fuels	Nil	Nil	Nil	Nil	Nil	Nil			
Types of SOX control system									
Types of NOX control system									
Details of SPM control system									
Special Features/Site Specific Features[8]	Intake and Make-up water system provided								
Special Technological Features[9]									
Environmental Regulation related features[10]	Nox control system provided								
Any other special features	This is a Combined cycle Gas based power plant with Gas booster(Gas engine operated) station.								

1: At turbine MCR condition
2: with 0% (nil) make up and design Cooling water temperature
3: at TMCR output based on gross generation, 0% (nil) makeup and design Cooling water temperature
4: With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR output
5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.
6: Motor driven, Steam turbine driven etc.
7: Coal or natural gas or Naptha or lignite etc.
8: Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake/makeup water systems etc. scrubbers etc. Specify all such features
9: Any Special Technological feature like advanced class FA technology in Gas Turbines, etc.
10: Environmental Regulation related features like FGD, ESP etc.,
Note 1: In case of deviation from specified conditions in Regulation, correction curve of manufacturer may also be submitted
Note 2: Heat Balance Diagram has to be submitted along with above information in case of new stations
Note 3: The Terms - MCR, BMCR, HHV, Performance coal, are as defined in CEA Technical Standards for Construction of Electric Plants and Electric Line

Petitioner

उप, मह प्रबन्धक (वि/य)
Dy. General Manager (E/M)
2 भा. सेवेक प्रयुग, O/o the Head of Plant
ए.जी.बी.पी., बोगाको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist Dibrugarh

मुख्य मह प्रबन्धक (वि/य) / सेवेक मुख्य
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोगाको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

NORMATIVE PARAMETERS CONSIDERED FOR TARIFF COMPUTATIONS	
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

Year ending March

Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
Base Rate of Return on Equity	%	15.50	15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization		15.50	15.50	15.50	15.50	15.50	15.50
Effective Tax Rate[4]	%	17.472	17.472	17.472	17.472	17.472	17.472
Target Availability	%	72	72	72	72	72	72
In High Demand Season	%	72	72	72	72	72	72
Peak Hours	%	72	72	72	72	72	72
Off-Peak Hours	%	72	72	72	72	72	72
In Low Demand Season(Off-Peak)	%	72	72	72	72	72	72
Peak Hours	%	72	72	72	72	72	72
Off-Peak Hours	%	72	72	72	72	72	72
Auxiliary Energy Consumption	%	2.5	2.5	2.5	2.5	2.5	2.5
Gross Station Heat Rate	kCal/kWh	2500	2600	2600	2600	2600	2600
Specific Fuel Oil Consumption	ml/kWh	NA	NA	NA	NA	NA	NA
Cost of Coal/Lignite for Working Capital[1]	in Months	NA					
Cost of Main Secondary Fuel Oil for WC[1]	in Months						
Fuel Cost for Working Capital[2]	in Months	1	1	1	1	1	1
Liquid Fuel Stock for Working Capital[2]	in Months						
O & M expenses considering Regulation 29(1)(c)	lakhs / MW	43.5	36.21	37.48	38.8	40.16	41.57
Maintenance Spares for Working Capital	% of O&M	30	30	30	30	30	30
Receivables for Working Capital	in Months	2	1.5	1.5	1.5	1.5	1.5
Storage capacity of primary fuel	MT						
SBI Base Rate + 350 basis points as on	%	11.65	12.050%	11.250%	10.500%	10.500%	12.000%
Blending ratio of domestic coal/imported coal				NA			
			12.05%	11.25%	10.50%	10.50%	12.00%

1. For Coal based/lignite based generating stations
2. For Gas Turbine/Combined Cycle generating stations duly taking into account the mode on gas fuel and liquid fuel
3. Mention relevant date
4. Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or advance tax)/gross income, where gross income refers the profit before tax.

Dy. General Manager (E/M)
Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

(Petitioner)

PART-I
FORM-5

ABSTRACT OF ADMITTED CAPITAL COST FOR EXISTING PROJECTS		
Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station : ASSAM GAS BASED POWER STATION		
Place (Region/District/State): North Eastern Region District: DIBRUGARH State: ASSAM		

Last date of order of Commision for the project	Date(DD-MM-YYYY)	21.12.2021
Reference of petition no. in which the above order was passed	Petition No.	298/GT/2019
Following details (whether admitted and / or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission :		
Capital cost (Rs . in lakh)		1,54,584.78
Amount of un-discharged liabilities included in above (& forming part of the admitted capital cost)		-
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		13.85
Gross Normative Debt (Rs . in lakh)		79,210.97
Cumulative Repayment (Rs . in lakh)		79,210.97
Net Normative Debt (Rs . in lakh)		-
Normative Equity (Rs . in lakh)		75,359.96
Cumulative Depreciation (Rs . in lakh)		1,23,736.71
Freehold land (Rs . in lakh)		150.17

(Petitioner)

उप. मुख्य प्रबन्धक (वि/प)
Dy. General Manager (E/M)
उप. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीमती, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/प) / संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीमती, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS ABASED POWER STATION
COD:	01-04-1998
For Financial Year	2019-20

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(In lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
ADD CAP EXPENSES ADMITTED BY CERC									
1	Replacement of old Waukesha Gas Engine 12V275 GL of Unit-4 of GBS along with all auxiliaries like Air Cooled Heat Exchanger (ACHE),Fuel filter		0.00	1,991.29		25(2)(d)	JUSTIFICATION The reasons for replacement of old Waukesha Gas Engine with new higher capacity AT 12V 275GL+ Waukesha Gas Engine with its auxiliaries and enhancement of Gas Compressor capacity were as follows: 1. The Old Gas Engine was old and obsolete. 2. There was a design problem for which the engine power was not sufficient to drive the compressor. 3. To increase reliability of the Gas Booster Station (GBS) as well as the plant. 4. The Old Gas Compressors were unable to deliver and 4 units were put into service to run all the 6 numbers of Gas Turbines. There are four numbers of Gas Booster Station to cater service for supply pressurized gas to the Gas Turbines. As per design philosophy, 3 GBS units are in running condition to run 6 numbers of Gas Turbines. REASON FOR CARRYING OUT R&M OF 4TH GBS UNIT AND INCREASES OF COST: A.Replacement of Waukesha gas engine (4th GBS Unit): As per the approval of the CERC, the replacement of 3 (three) out of 4 (Four) numbers of Gas Engines & modification of Gas Compressors were completed within 2015-16. The projected approved figures of Rs. 6153.36 lakhs for additional capitalisation of 4 GBS units, which was allowed by CERC order dated 15.2.2016 in Petition No.41/GT/2015, was calculated based on past experience / budgetary estimates, and therefore, the final execution costs may vary. The actual cost incurred for replacement and modification of Gas Engines of 3 GBS units was Rs.5097.00 Lakhs and was completed during the year 2016-17. But, the projected additional capitalisation claimed and allowed by CERC vide order dated 15.02.2016 in petition no. 41/GT/2015 for 4th unit of GBS for Replacement of Gas Engine was Rs. 1647.60 Lakhs for the FY 2017-18. However, for the following reasons, the modification of 4th unit GBS could not be completed within 2017-18 and successfully completed during the FY 2019-20. The reasons were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. Considering the sufficient inventory levels of old Waukesha Gas	PO no. NEEPCO/AGBP/HOP/2018-19/W-10(A)/939 dtd. 24/01/2019 & WO no. NEEPCO/AGBP/HOP/2018-19/W-10(A)/642 dtd. 24/01/2019 placed to M/S CEPL (Annexure-I)	1,056.36

उप. महा प्रबन्धक (वि./प)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नौपाको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Golaghat

MONU GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

मुख्य महा प्रबन्धक (वि./प) / संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नौपाको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Sl. No	Head of Work/Equipment	AGE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
2	Revamping/modification of the Dresser-Rand Gas Compressor of GBS Unit-4		0.00	884.08		25(2)(d)	Engines and Dresser Rand Gas Compressors, replacing the 4th unit in 2017-18 would have led to underutilized assets and inefficient use of capital. 3. Had all four units been replaced during the 2014-19 block, the capital cost of the 4th GBS unit would have been absorbed within the 2014-19 tariff period. However, by phasing the replacement, the cost impact of the additional capital infusion for the 4th unit shifts to the 2019-24 tariff block. 4. The phased replacement approach allows us to stagger the expenditure, avoiding a significant upfront financial burden and increases of tariff on beneficiaries. This segmented approach distributes the costs over time, reducing the financial strain. The PO & WO placed for modification of the 4th Gas Engine was placed in the year 2019 and job was successfully completed during the period 2019-20. The actual cost incurred for replacement of Waukesha Gas Engine and other auxiliaries for the 4th GBS unit was Rs.1981.21 Lakhs. B.Modification of Dresser Rand Gas Compressor (4th GBS Unit). As per the approval of the CERC, the replacement of 3 (three) out of 4 (Four) numbers of Gas Engines & modification of Gas Compressors were completed within 2015-16. The projected approved figures of Rs. 3272.58 lakhs for additional capitalisation of 4 GBS units, which was allowed by CERC order dated 16.2.2016 in Petition No.41/GT/2015, was calculated based on past experience / budgetary estimates, and therefore, the final execution costs may vary. The actual cost incurred for replacement and modification of Gas Compressors of 3 GBS units was Rs.2735.21 Lakhs and was completed during the year 2016-17. However, the projected additional capitalisation claimed and allowed by CERC vide order dated 16.02.2016 in petition no. 41/GT/2015 for modification of Gas Compressor was Rs. 939.18 Lakhs for the FY 2017-18. However, for the following reasons, the modification of 4th unit GBS could not be completed within 2017-18 and successfully completed during the FY 2019-20. The reasons were as follows: 1. The condition of 4th GBS unit was overhaul in good condition during that	PO NEEPCO/AGBP/HOP/2018-19/W-10(A)/332 dtd. 21/08/2019 & WO NEEPCO/AGBP/HOP/2018-19/W-10(A)/451 dtd. 09/11/2019 placed to M/S Dresser-Rand India Private Limited (Annexure-2)	538.37
3	Up-gradation of 7200- series, BENTELY-NEVADA make Vibration monitoring system of GT-1 and GT-2.	110.00	0.00	103.00		25(2)(d)	VMS rack 7200 of M/S Bently-Nevada is obsolete. Spare support is not available. As such, upgradation of Vibration Monitoring System is essential for safety of the equipment. The OEM has issued obsolete certificate. Installation and commissioning in GTG Unit # 1 on 19/06/2019 and GTG Unit # 2 on 20/05/2019	PO: NEEPCO/AGBP/C&I/T-13(C)/2018-19/WNB/150/419 dtd. 26/02/2019 placed to M/S Wilstrong Solutions Pvt. Limited (Annexure-3)	109.35
4	Replacement of existing UPS with battery Bank for GT controlers and Online monitoring system.	-	0.00	119.78		25(2)(d)	1) Commission has already been admitted for the Year 2016-17 for an amount of Rs. 104.00 Lakhs and the works has already been completed in 2019-20. 2) The UPS system including Battery for GT controller and online monitoring system have commissioned in 1995. 3) As per guidelines of OEM, the life periods of Tubular Type (Microscopic Rubber) battery is 10-14 years and Pasted Type (Microscopic Rubber) is 5-7 years. 4)As per CEA guidelines issued vide no: 20/Misc./TPRM/CEA/2015/565 dtd.27.08.2015 , units above 15 years old qualify for Mic Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension.	PO ref. no. NEEPCO/AGBP/PEM/C&M-07/2018-19/432 dtd. 14/12/2018 placed to M/S Consul Neowatt Power Solution Pvt. Limited (Annexure-4)	104.00
	Total (A)		0.00	3,068.16					1,606.08
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									

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Dy. General Manager (E/M)
Bokuloni, Dist. Dibrugarh

Asstt. Manager (E/M)
AGBP

Cost Accountant Mem.No. 41585 GUWAHATI

Chief General Manager (E/M) / HOP

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
1	Construction of 20 MVAR Line Reactor		0.00	122.72		26(1)(a) & 26(1)(d)	As per MOM between NERPC/NERLDC and NEEPCO for system stability of NER grid.	Deposit Work Agreement between NEEPCO & PGCIL dtd. 26/05/2012 (Annexure-5)	
2	Replacement of Tabular Lead Acid Battery 48 V TBS (OPZS) 500AH of PLCC system		0.00	30.21		26(2)(c)	1)The 48 V DC Battery bank and Caldyna make battery Charger for PLCC had installed initially by PGCIL which was in service since commissioning of the plant (1998). Due to deteriorated condition of the 48 Volts Battery bank, it was advise in the 134th OCC meeting for replacement of the 48 Volts Battery bank. Moreover, the OEM suggested for replacement / upgradation of the same. 2) As per CEA guidelines issued vide no: 2/6/Misc./TPRM/CEA/2016/985 dtd 27.06.2015, units above 15 years old qualify for Mid Life R&M works for Life Extension. Accordingly, it is necessary for replacement old battery bank for reliable operation of the system.	PO ref. no. NEEPCO/AGBP/PBM/O&M-07/2017-18/36/NBH122/580/A1 dtd. 03/03/2018 placed to M/S Namrup Sales Corporation (Annexure-6)	
3	Upgradation of protection system by replacing existing electro-magnetic relays with numerical relays for 6.6 kV OCB & OCC Bus and fire fighting pump house control panel.		0.00	18.79		26(2)(c)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/9/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	PO ref. No. NEEPCO/AGBP/PBM/O&M-12/18-19/187 dtd. 13/03/2019 placed to M/S Everite Engineering Industries, Tinsukia (Annexure-7)	
4	Installation of External GPS system for time synchronization of RTU		0.00	2.81		26(1)(d)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/9/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 2) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 3) It is necessity for time synchronization for the safety and security of grid. 4) DPR/documentry evidence for life extension has already submitted.	PO ref. no. NEEPCO/AGBP/PBM/O&M-02/39/NBH147/15-19/923 dtd. 28/03/2019 placed to M/S SCOPE T&M Private Limited, Mumbai (Annexure-8)	
5	Replacement of Digital Voltage Regulator(DAVR) FOR STG II		0.00	18.95		26(3)(c)	The existing Unitrol-M AVR system of ABB was obsolete. The Spare support of the old system was not available. As such, to make the system reliable and avoid outages due to non- availability of the spares, the system is replaced with new DAVR. The CEM has issued obsolete certificate	PO ref. no. NEEPCO/AGBP/C&I/T-52/2016-19/90/NBH113/093 dtd. 23/11/2018 order placed to M/S ABB India Limited. (Annexure-9)	

Dy. General Manager (E/M)
Addl. Chief Engineer (E/M)
Addl. Chief Engineer (E/M)
Dy. General Manager

Sl. No	Head of Work/equipment	ACE Claimed (Actual/Projected)			IDC Included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
9	Vibration Monitoring System STG-I and STG#3		0.00	129.17		29(2)(c)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	PO ref. no. NEEPCO/AGBP/C&I/T-52/2018-19/90NB/129/265 dtd. 22/11/2018 & WO ref. no. NEEPCO/AGBP/C&I/T-52/2018-19/934 dtd. 27/12/2018. Order placed to M/S GE Oil & Gas India Pvt. Limited. (Annexure-10)	
		Total(B)	-	922.04					
		Total (A)		3,390.19					
		Adjustments							
		Net Additional Capitalisation		3,390.19					
		Add Cap for WWRD		129.69					
	MAJOR CAPITALISED SPARES								
1	MAJOR CAPITALISED SPARES			1,199.09					
	Total (C)			1,199.09					-
	Grand Total (A+B)			4,588.28					1,808.06

In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past, fill column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority)(Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of tariff period 2019-24.

In case of de- capitalisation of assets separate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of such assets to be furnished at column 5.Where de-caps are on estimated basis thesame to be shown separately.

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original value of such asset to be shown at col. 3. And imputed value if any , year of its capitalisation to be mentioned at column 8.

Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalisation of that particular asset.

Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and thebenefits accruing to the beneficiaries.

In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated separately e.g. Rotor- 50 Crs. Initial spares -5Crs.

As per form 9 (B)	4,588.28
Exclusion as per form 6 ©	714.99
Decapitalisation (D)	1,675.17
Reversal (E)	-
Total as per 9 (B)	4,126.01

Capital spares capitalised in Books but not consumed	1,799.08
Total as per 9 (B)	6,911.10
Change in Gross block in Books	6,911.49

Dy. General Manager (E/M)
Dy. General Manager (E/M) & Dy. Head of Plant
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

MONOJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

मुख्य महा प्रबंधक (वि/च)/मेंदीप्रयोग
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोंगको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

(Petitioner)

PART-I
FORM-9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS ABASED POWER STATION
COD:	01-04-1999
For Financial Year	2020-21

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(3-3-4)	6	7	8		9
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									
1	Replacement of old existing hydraulic operated Circuit Breaker with new ABB make spring operated SF6 of Circuit Breaker (for 8 nos. of CB)		0.00	182.78		25(2)(c)	1) As per CEA guidelines issued vide no: 2/3/Misc/TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1985 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind refernce. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	PO ref. no. NEEPCO/AGBP/PEM/O&M-01/19-20/365 dtd. 12/03/2019 placed to M/S ABB India Limited (Annexure-12)	
2	Replacement of Fill Packs of Cooling Tower		0.00	91.54		25(2)(a)	Fouled fill packs of cooling tower was replaced to improve water distribution as well as to improve cooling tower efficiency. Improvement of cooling tower efficiency improves condenser performance and thereby efficiency of steam turbine improves.	WO ref. no. NEEPCO/AGBP/ST&Aux/W-33(A)-09/2020-21/240 dtd. 03/08/2020 placed to M/S Coldeckindustries Pvt. Limited (Annexure-13)	
3	HMI upgradation & Reinstallation including Custom duty		0.00	114.54		25(2)(c)	Server cum HMI of GT#5 was based on windows-XP and of GT#6 was windows-2007. Service	PO ref. no. NEEPCO/AGBP/HOP/2020-21/W-11(8)/204 dtd. 29/09/2020 & WO ref. no.	

उप. महा प्रबन्धक (वि/य)
Dy. General Manager (E/M)
का. केंद्रीय प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
LTD AGBP
Bokuloni, Dist. Nbrugarh

MOHUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

मुख्य महा प्रबन्धक (वि/य) / केंद्रीय प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
4	Upgradation of HMI Mark-VIe Control system		0.00	9.44		25(2)(c)	support and Anti-virus update for Windows-XP & 2007 was not available. HMI of GT#5 is replaced with windows-10 and GT#6 is upgraded to windows-10.	NEEPCO /AGBP/HOP/2020-21/W-11(B)/213 dtd. 29/08/2020 placed to M/S BHEL-GE Gas Turbine Services Pvt. Limited (Annexure-14)	
5	Vibration Monitering & Temoparature Monitering System STG#2 (Spares)		0.00	69.72		25(2)(c)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	PO ref. no. NEEPCO/AGBP/C&I/T-52/2019-20/60NB/115/293 dtd. 13/03/2020 placed tp M/S GE Oil & Gas Pvt. India Limited (Annexure-15)	
6	Vibration Monitering & Temoparature Monitering System STS#2 (Service)		0.00	5.59		25(2)(c)		WO ref. no. NEEPCO/AGBP/C&I/T-52/2020-21/117 dtd. 13/10/2020 placed tp M/S GE Oil & Gas Pvt. India Limited (Annexure-16)	
7	Technical Advisory Services for MI with LGB and AGB inspection of BHEL supplied GT U # 5		0.00	82.41			Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	WO ref. no. NEEPCO/AGBP/HOP/19-20/W-6(B)/397 dtd. 23/10/2019 placed to M/S BGGTS (Annexure-17)	
8	Technical Advisory Services for MI with LGB, AGB inspection exhaust plenum repair of BHEL supplied GT U # 6		0.00	148.49			Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	WO ref. no. NEEPCO/AGBP/HOP/20-21/W-6(B)/197 dtd. 24/08/2020 placed to M/S BGGTS (Annexure-18)	
	Total(A)		0.00	674.92					
	Add Cap for WAROI			-					

Dy. General Manager (E/M)
Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Tarugarth

MONU GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)					
MAJOR CAPITALISED SPARES									
1	MAJOR CAPITALISED SPARES		0.00	2830.93					
Total (B)			-	2,830.93					
Grand Total (A+B)			-	3,505.84					

In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past,fill column 5 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority)(Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of tariff period 2019-24.

In case of de- capitalisation of assets separate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of such assets to be furnished at column 5.Where de-caps are on estimated basis thesame to be shown separately.

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original valueof such asset to be shown at col. 3. And imparied value if any , year of its capitalisation to be mentioned at column 5.

Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalisation of that particular asset.

Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and thebenefits accruing to the beneficiaries.

In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated seperately.e.g. Rotor- 50 Crs, Initial spares -5Crs.

(Petitioner)

As per form 9 (B)	3,505.84
Exclusion as per form K©	1,477.64
Decapitalisation (D)	814.80
Reversal (E)	-
Total as per books'	4,368.68

Capital spares capitalised in Books but not consumed	- 1,785.08
Total as per 9 (B)	2,583.60
Change in Gross block in Books	2,583.60

This is negative as this was capitalised in Books in FY-2019-20 but used in FY-2020-21

उप, मह प्रबन्धक (वि./प)
Dy. General Manager (E/M)
भा. पॉवर ग्रुप्को, Dlo the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist Sibsagar

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

मुख्य मह प्रबन्धक (वि./प) / कॉपॉ ग्रुप्को
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati	ASSAM GAS ABASED POWER STATION
COD:	01-04-1999
For Financial Year	2021-22

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
ADD CAP EXPENSES ADMITTED BY CERC									
	No Job								
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									
1	Procurement of Transformer Oil filtration plant of capacity 6000LPH		0.00	17.94		25(2)(a)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.	PO ref. no. NEEPCO/AGBP/PEM/C&M-01/2020-21/136 dtd. 03/08/2021 placed to M/S Minimac System Pvt. Limited (Annexure-20)	
2	Transformer filtration plant of capacity 1200LPH		0.00	4.25		25(2)(a)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.		
3	Single chamber skid mounted type Transformer Oil Storage tank		0.00	7.46		25(2)(a)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. This is a part of Filtration Plant and necessity for 2MVA Aux. Transformer and same has already been procured for filtration of Transformer oil.		

Dy. General Manager (E/M)
Asstt. Manager(F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh
Cost Accountant Mem. No. 41585
मुख्य महा प्रबन्धक (वि/यं) / अध्यक्ष प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
4	Replacement of old existing hydraulic operated CB with new ABB make spring operated SF6 of Circuit Breaker (for 4 nos. of CB)		0.00	82.95		25(2)(c)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1996 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	PO ref. no. NEEPCO/AGBP/PEM/O&M-01/2020-21/373 dtd. 30/12/2020 placed to M/S ABB Power Product & System India Limited (Annexure-21)	
5	Replacement of old existing hydraulic operated CB with new ABB make spring operated SF6 of Circuit Breaker (for 3 nos. of CB)		0.00	49.71		25(2)(c)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	PO ref. no. NEEPCO/AGBP/PEM/O&M-01/2021-22/125 dtd. 03/07/2021 placed to M/S ABB Power Product & System India Limited (Annexure-22)	
6	DIGITAL VOLTAGE REGULATOR DAVR (GT unit # 5 & 6)		0.00	19.41		25(2)(c)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 5	PO ref. no. NEEPCO/AGBP/C&I/T-56/2020-21/90/NBC110/151 dtd. 19/11/2020 placed to M/S ABB India Limited (Annexure-24)	
			0.00	1.18		25(2)(c)	Service for the above		
7			0.00	20.59		25(2)(c)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 6		
			0.00	1.89		25(2)(c)	Service for the above		

उप. महा प्रबन्धक (वि./प)
Dy. General Manager (E/M)
का. दीपक प्रभारी, O/o the Head of Plant
ए.जी.बी.पी., नीरजोनी, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

MOHAN GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

मुख्य महा प्रबन्धक (वि./प)/ कार्यालय प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीरजोनी, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
8	REPLACEMENT & INSTALLATION OF CUMMINS ENGINES FOR GT UNIT# 5 (INSTALLATION)		0.00	65.91		25(2)(e)	Due to dilution of Crank Case Lube Oil with Diesel, the major components like crankshaft, piston etc. of the Starting Diesel Engine got seized. The engine was 25 years old and the repair cost of the old engine is high. As such, it was decided to procure 1 (one) new Starting Diesel Engine.	WO ref. no. NEEPCO/AGBP/GT&Aux/ 21-22/W-36/280 dtd. 17/02/2022 placed to M/S Garuda Power Pvt. Ltd, WO ref. no. NEEPCO/AGBP/GT&Aux/ 2021-22/W-32/77 dtd. 2/08/2021, PO ref. no. NEEPCO/AGBP/GT&Aux. /2021-22/W-36/95 dtd.	
9	Upgradation of Centralised AC system by replacing 3 numbers of 70TR water cooled reciprocating chiller Units by high efficiency 80TR water cooled screw chiller along with Cooling Towers		0.00	88.19		25(2)(a)	The reciprocating type chillers were already crossed 25 years of operation. Due to ageing problem, the performance & efficiency was decreasing day-by-day and hence encountering various type of technical problem. Moreover, the OEM was unable to supply various spares for maintenance due to obsolance of the chillers. Hence, the Central AC plant was upgraded with higher capacity Screw type Chillers, which are more efficient and reliable.	PO ref. no. NEEPCO/AGBP/SFC/O&M-13/2021-22/197 dtd. 26/08/2021 & NEEPCO/AGBP/SFC/O&M-13/2021-22/626 dtd. 21/12/2021 placed to M/S Blue Star Limited (Annexure-26)	
10	Medium Volt Covered Conductor(MVCC) IN 11 KV Line for intake pump house		0.00	15.40		25(2)(d)	The work was replacement work of the old asset. The part of the 11 KV intake line was replaced for protection and reliability of the line.	W/O ref. no. NEEPCO/AGBP/U&W/CIT-09/2020-21/277 dtd. 04/01/2021 placed to M/S Glocon, Tinsukia (Annexure-27)	
	Total(A)		-	388.69					
	Add Cap for WAROI			-					
MAJOR CAPITALISED SPARES									
1	MAJOR CAPITALISED SPARES		0.00	168.10					
	Total (B)		-	168.10					
	Grand Total (A+B)			556.99				-	

In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past,fill column 5 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority)(Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of tariff period 2019-24

उप. महा प्रबन्धक (वि/प)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, C/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger(F)
NEEPCO LTD AGBP
Bokuloni, Dist. Golaghat

Accountant
Mem. No. 41585

मुख्य महा प्रबन्धक (वि/प) / मंडल प्रमु
Chief General Manager (E/M) / HC
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.3	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)				
1	2	3	4	(5=3-4)	6	7	8	9
In case of de- capitalisation of assets separate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of such assets to be furnished at column 8.Where de-caps are on estimated basis thesame to be shown separately.								
Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original valuecf such asset to be shown at col. 3. And impaired value if any , year of its capitalisation to be mentioned at column 8.								
Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalisation of that particular asset.								
Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and thebenefits accruing to the beneficiaries.								
In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated seperately,e.g. Rate= 50 Crs, initial spares -5Crs.								

As per form 9 (B)	556.99
Exclusion as per form K (C	526.89
Decapitalization (D)	123.37
Reversal (E)	-
Total as per books'	992.51

Capital spares capitalised	0
Total as per 9 (B)	992.51
Change in Gross block in	992.50625

मुख्य महा प्रबन्धक (वि/य)
Dy. General Manager (E/M)
कृते. मैसर्स प्राउड, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
AGBP LTD AGBF
Bokuloni, Dist. Dibrugarh

MONU GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

मुख्य महा प्रबन्धक (वि/य)/ मंपोव परियोजना
Chief General Manager (E/M) / HOP
(Petitioner) ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS AGASED POWER STATION
COD:	01-04-1995
For Financial Year	2022-23

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
ADD CAP EXPENSES ADMITTED BY CERC									
1	Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) of MHI Gas Turbine Unit-1	0				35(3)(d)	Due to delay for covid situation, the job could not be able to completed within this financial year. The job is completed in the month of July-Aug. 2024 i.e. FY 2024-25. So, the CRR /CRI of GT rotor of UNIT # 2, which is installed at GT Unit # 1, shall be submitted for the period 2024-25.	PO & WO ref. no. NEEPCO/AGBP/HOP/2013-14/W-8(A)/205 dtd. 28/05/2013 placed to M/S MC, Japan (Annexure-26)	1,591.90
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									
1	CRR & CRI OF MHI GAS TURBINE(COMPRESSOR ROTOR/REFURBISHMENT) original rotor of unit # 3 and installed at GT unit # 2		0.00	2,491.93		25(2)(d)	Details of CRR & CRI As per recommendation of OEM, M/s Mitsubishi Corporation, Japan, either CRR-CRI (compressor rotor refurbishment and comprehensive Rotor inspection) or replacement of turbine rotor of Gas Turbine is necessary to obtain the desired output of the turbine after 1 lakh fired hours. This will enhance the life of the GT. Accordingly, NEEPCO had placed an Order No. NEEPCO/AGBP/HOP/13-14/W-8(A)/205 dated 28.05.13 for CRR & CRI of three MHI supplied Gas Turbine Rotors along with procurement of one new Gas Turbine Rotor in 2013. The new Gas Turbine Rotor was installed in Gas Turbine # 4 in July' 2015 and the original Rotor removed from Gas Turbine Unit # 4 was sent to Japan for CRR and CRI in Aug' 2015 and it was received in Japan in October' 2015. After CRR and CRI this Rotor was installed in Gas Turbine # 3 in June – July 2017. The Rotor removed from Gas Turbine Unit # 3 was sent to Japan for CRR & CRI in Dec' 2017 and the Rotor was received in Japan in Feb' 2018. After CRR & CRI in Japan the refurbished Rotor was received in May' 2020 and it was installed in Gas Turbine Unit # 2 in March – April' 2022. The original Rotor from the Unit # 2 was sent to Japan for CRR & CRI in July' 2022. After CRR & CRI, the refurbished Rotor was received at AGBPS in May' 2024 and it was installed in Gas Turbine Unit # 1 in July – August' 2024. The Rotor coming out from the Unit # 1 has been preserved in container. As such, the contract is closed in July – August' 2024.	PO & WO ref. no. NEEPCO/AGBP/HOP/2013-14/W-8(A)/205 dtd. 28/05/2013 placed to M/S MC, Japan (Annexure-28)	

उप. महा प्रबंधक (वि/य)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, C/o the Head of Plant
ए.जी.बी.पी., नंगलमुरी, बोकुलोनी

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Tinsukia

मुख्य महा प्रबंधक (वि/य) / संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नंगलमुरी, बोकुलोनी
AGBP, NEEPCO, Bokuloni

MOHIT GOEL & CO. Cost Accountant Mem. No. 41585 DELHI

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
2	Generator Overhauling of MHI GTG Unit # 2 alongwith CRR /CRI works		0.03	114.83		25(2)(d)	Gas Turbine generator and its spares have definite life. For sustained performance of the Gas Turbine Generator, it is necessary to carry out Major Overhauling of the Generator under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine Generator of MHI Gas Turbine is extended.	PO to M/S [illegible] Corporation vide ref. no. NEEPCO/AGBP/PEM/2020-21/O&M-05/283 dtd. 17/10/2020 & ammendment order no. NEEPCO/AGBP/PEM/2020-21/O&M-05/283 dtd.	
3	Upgradation of Electro-magnetic relay to Numerical Relay of Gas Turbine Generators		0.00	34.95		25(2)(c) & 29(1)(a)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MPR/01/2010 dtd. 26/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	PO ref. no. NEEPCO/AGBP/FEM/O&M-12/2021-22/150 dtd. 21/06/2021 placed to M/S Everite Engineering Industries (Annexure-30)	
4	Upgradation of EMS (ABT) Energy Management system software with high -end server		0.00	29.74		25(2)(c)	Server cum HMI of the system was windows server-2012 & ABT software was PME-2008 of Schneider. Server system is upgraded to windows-2019 & ABT software is PME-2020 of Schneider.	PO ref. no. NEEPCO/AGBP/C&I/IT-09/20222-22/593 dtd. 29/03/2022 placed to M/S Energis System Pvt. Limited (Annexure-31)	
5	Upgradation of DCS system of Module 1 & Governor of STG 1		0.00	999.21		25(2)(c)	P-13 ABB DCS completed 26-yr operation & spare support was not available. Trouble shooting was more difficult due to communication issue.	PO ref. no. NEEPCO/AGBP/HOP/2021-22/W-11(B)/133 dtd. 23/07/2021 placed to M/S ABB India Limited. (Annexure-32)	
6	Upgradation of PLC Based Automation system of DM Plant		0.00	26.59		25(2)(c)	Allen-bradly (Rockwell) PLC, SLC-500 completed 25 yr operation. Spare support was not available.	PO ref. no. NEEPCO/AGBP/C&I/IT-13/2021-22/366 dtd. 28/06/2021 placed to M/S Sonepar India Pvt. Limited (Annexure-33)	

Dy. General Manager (E/M)
उप. संयंत्र प्रमुख, O/o the Head of Plant Rokulonl, Dist. Tirugarh

Asstt. Manager (F)
NEEPCO LTD AGBP

MOHINI GOGOI & CO
Cost Accountant
Mem.No. 41585
GUWAHATI

Chief General Manager (E/M) / HOP
ए.जी.एम., सेपको, संकुरोनी
AGBP, NEEPCO, Rokulonl

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
7	Technical Advisory Service by MHI for GT#2		0.00	291.21			Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	IWO ref. no. NEEPCO/AGBP/HOP/2019-20/W-6(A)/837 dtd. 12/02/2020 placed to M/S MC, Japan (Annexure-34)	
8	Renovation of existing CO2 flooding system of GT#3 & 4		0.00	65.46		25(2)(a)	The Power Station has already crossed 25 years of operation. The CO2 system is one of the vital integral component for safety of the equipment as well as Plant. CO2 Flooding system of MHI Gas Turbines Unit# 1,2,3 & 4 were orginally installed by M/S CHUBB FIRE Company, UK during commissioning of NHI make Gas Turbine units under packakage of MHI, Japan and since then no major modification / repairing was taken place. The systems were experiencing malfunctions, and spare parts were no longer available in the market. Despite correspondence, CHUBB FIRE Company did not responded regarding spares and health check-ups. Furthermore, MHI had expressed their inability to provide spares and services (document enclosed).To address these issues, M/S Pranjana & Associates has been awarded the contract for: - Renewal of the CO2 Flooding System - Automation of the system - Maximum utilization of existing system components	PO placed to M/S Pranjana & Associates. Order ref. no. NEEPCO/AGBP/HO&AWC/T 11(Vol-IV)/2021-22/739 dtd. 31/03/2022 (Annexure-35)	
9	SITC of 630 KVA, 11/0.433 KV 3 phase distribution transomer for intake pump house		0.00	11.64		25(2)(a)	The life of the transformerr has already completed.	GeM Contract no. GEMC-511687758935688 dtd. 04/11/2022 placed to M/S NGC Power (Annexure-36)	
Total(A)			-	3,754.75					1,591.85
Add Cap for WARDI				-					
MAJOR CAPITALISED SPARES									
1	MAJOR CAPITALISED SPARES		0.00	201.53					
Total (B)			-	201.53					-
Grand Total (A+B)				3,956.27					1,591.85

In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past,fill column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority)(Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of tariff period 2019-24.

In case of de- capitalisation of assets separate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of each asset to be furnished at column 5.Where de-caps are on estimated basis thesame to be shown separately.

Dy. General Manager (E/M)
मा. सीएम प्रमुख, On the Head of Plant
एन.ई.ई.पी.सी., बोकुलोनी

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

Cost Accountant Mem. No. 41585

मुख्य महा प्रबंधक (वि/ख) / मुख्य प्रमुख
Chief General Manager (E/M) / HOP
एन.ई.ई.पी.सी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.3	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)				
1	2	3	4	(3=3-4)	6	7	8	9

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original valued such asset to be shown in col. 3. And impaired value if any , year of its capitalisation to be mentioned in column 6.

Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalisation of that particular asset.

Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and thebenefits accruing to the beneficiaries.

In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated seperately.e.g. Rotor- 50 Crs. Initial spares -5Crs.

As per form 9 (B)	3,998.27
Exclusion as per form 6 B	1,969.77
Decapitalization (D)	380.15
Reversal (E)	-
Total as per books	5,236.69

Change in Gross block in Books	5,236.68

उप. मह प्रबन्धक (वि/ले)
Dy. General Manager (E/M)
उप. मुख्य प्रभारी, O/o the Head of Plant
ए.ई.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Assit. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Nbrajgarh

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

(Petitioner)
मुख्य मह प्रबन्धक (वि/ले)/ संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.ई.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS ABASED POWER STATION
COD:	01-04-1999
For Financial Year	2023-24

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)					
1	2	3	4	(5=3-4)	6	7	8	9	
ADD CAP EXPENSES ADMITTED BY CERC									
	No Job								
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									
1	REPLACEMENT OF OLD EXISTING 245 KV CURRENT TTRANFORMER OF 220 KV SWITCHYARD		0.00	122.95		25(1)(a)	1) As per 'Central Electricity Authority (Installation and operation of Meters) Regulations, 2006' and subsequent ammendment, the accuracy class for tariff metering core shall be equal to 0.2S or better. PS for differential protection and 5P20 for other protection. The notifications of CEA issued vide no: CEA-GO-13-16/3/2018-OPR Division dtd. 23/12/2019 may kindly be referred. 2) The accuracy class of our existing old BHEL make CTs for metering core is 1.5 and already crossed more than 25 years. 3) Moreover, as per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. The copy of CEA Regulations 2006 and guidelines are enclosed for references.	PO ref. no. NEEPCO/AGBP/PEM/O&M-01/2022-23/495 dtd. 31/03/2022 placed to M/S Everite Engineering Industries Limited, Tinsukia and PO ref. no. NEEPCO/AGBP/PEM/O&M-01/2022-23/500 dtd. 31/03/2022 placed to M/S Hivoltions Electrical Pvt. Limited (Annexure-37)	

उप. मुख्य प्रबन्धक (वि/य)
Dy. General Manager (E/M)
कार्यालय प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोगाईगाँव
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Kokrajhar

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

मुख्य महा प्रबन्धक (वि/य) / कार्यालय प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोगाईगाँव
AGBP, NEEPCO, Bokuloni

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)					
1	2	3	4	(5=3-4)	6	7	8	9	
2	Supply Installation Testing &Commissioning of Standalone Disturbance Recorder & Event Logger		0.00	59.79		25(1)(a)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MPR/01/2010 dtd. 20/8/2010 under clause No. 43/16, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850relevant standards. "All operational data, including disturbance recorder, event logger reports, for analysing the grid incidents and grid disturbance, any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 2) Moreover, as per CERC regulations "Recording Instruments such as Data Acquisition System/ Disturbance Recorder/Event Logging Facilities/Fault Locator shall be provided and shall always be kept in working condition in the ISTS for recording of dynamic performance of the system. All users, STUs and CTU shall provide all the requisite recording instruments and shall always keep them in working condition." As such to comply with the CERC regulations, order has already been placed.	PO ref. to. NEEPCO/AGBP/PEM/O&M-12/2020-21/01 dtd. 02/04/2020 & NEEPCO/AGBP/PEM/O&M-12/2022-23/61 dtd. 20/08/2022 placed to M/S Everlite Engineering Industries, Tinsukia (Annexure-38)	
3	Upgradation of SWAS System of Module1_STG#1		0.00	201.74		25(2)(a)	System has completed 25-yr and not in operation due to obsolete analyzer and other components.	PO NEEPCO/AGBP/C&I/T-48/2022-23/86 dtd. 05/07/2022 placed to M/S TJA Engineering & Trading Co. (Annexure-40)	
4	CIBI of GT#1		0.00	351.46		35(1)(f)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended	PO ref. no. NEEPCO/AGBP/HOP/2022-23/W-8(B)/313 dtd. 30/11/2022 placed to M/S RGGTSI (Annexure-41)	

अ. महा प्रबंधक (वि/य)
Dy. General Manager (E/M)
का. जेपप्र, पो/प्र, O/o the Head of Plant
ए.ज.पा.वि., बोपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni Dist. Golaghat

MONOJIT GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

मुख्य महा प्रबंधक (वि/य) / संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.ज.पा.वि., बोपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

SL No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(In lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)					
1	3	3	4	(5=3)-4)	6	7	8	9	
5	Renovation of existing CO2 flooding system of GT#1 & 2		0.00	56.40		25(2)(b)	The Power Station has alreadycrossed 25 years of operation. The CO2 system is one of the vital integral componenet for safety of the equipment as well as Plant. CO2 Flooding system ofMHI Gas Turbines Unit # 1,2,3 & 4 were originally installed byM/S CHUBB FIRE Company, UK during commissioning of MHI make Gas Turbine units under packakage of MHI, Japan and since then no major modification / repairing was taken place. The systems were experiencing malfunctions, and spare parts were no longer available in the market. Despite correspondence, CHUBB FIRE Company did not responded regarding spares and health check-ups. Furthermore, MHI had expressed their inability to provide spares and services (document enclosed).To address these issues, M/S Pranjane & Associates has been awarded the contract for: - Renewal of the CO2 Flooding System - Automation of the system - Maximum utilization of existing system components	PO placed to M/S Pranjane & Associates. Order ref. no. NEEPCO/AGBP/O&A/WD/T 11/Vol-IV/2021-22/736 dtd. 31/03/2022 (Annexure-42)	
6	Supply, installation, testing & commissioning of 75 KLD STP		0.00	40.77		28(1)(f)	Installation of STP in a power house is as per statutory requirement.	The PO was placed to M/S Eco Clean vide Gail contract no SEMC-5119877469634350 dtd. 05/08/2020 (Annexure-43)	
7	CIBI of GT# 5		0.00	148.00		35(1)(6)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	PO ref. no. NEEPCO/AGBP/HOP/2022-23/W-8(B)/320 dtd. 29/11/2022 placed to M/S BGGTS (Annexure-44)	
8	M I & OH of Generator & Exciter of GTG U # 5		0.00	77.00			The overhauling of Generator & Exciter was carried out as per the guideines of OEM for life extension of the equipment. Moreover, the stator winding temperature was observed in higher side.	WO ref. no. NEEPCO/AGBPS/PEM/O&M-05/2021-22/453 dtd.25/03/2022 placed to M/S BHEL (Annexure-45)	

Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोंगाईगांव, बोकुलोनी

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Nalbagarh

Cost Accountant Mem. No. 41585 GUWAHATI

मुख्य महा प्रबन्धक (वि.व.) / मुख्य संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोंगाईगांव, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)					
1	2	3	4	(5=3-4)	6	7	8	9	-
Total (A)			-	1,167.09				-	-
	Add Cap for WAROI			46.77					296.00
MAJOR CAPITALISED SPARES									
1	MAJOR CAPITALISED SPARES		9.00	715.38					
Total (B)			-	715.38				-	
Grand Total (A+B)				1,882.47				-	

In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past,fill column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority)(Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of tariff period 2019-24.

In case of de- capitalisation of assets separate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of such assets to be furnished at column 8.Where de-caps are on estimated basis theseare to be shown separately.

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original value of such asset to be shown at col. 3. And imposed value if any , year of its capitalisation to be mentioned at column 8.

Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalsation of that particular asset.

Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and thebenefits accruing to the beneficiaries.

In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated seperately e.g. Rotor- 50 Crs. Initial spares -5Crs.

As per form 9 (B)	1,882.47
Exclusion as per form 5 (I)	193.56
Decapitalization (D)	445.81
Reversal (E)	-
Total as per 9B	1,693.42

Capital spares capitalised in Books but	-670.55
Total as per 9 (B)	1,069.87
Change in Gross block in Books	1,071.33

-11.49

This is negative as this was capitalised in Books in FY-2022-23 but used in FY-2023-24

(Petitioner)

उप. मुख्य प्रबन्धक (वि/प)
Dy. General Manager (E/M)
का. सं. प्रभारी, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Assit. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist Sibsagar

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

मुख्य महा प्रबन्धक (वि/प)/नेपीसी बोकुलोनी
Chief General Manager (E/M) / NCP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-10

Financing of Additional Capitalisation	
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM
Date of Commercial Operation :	01-04-1999

(Amount in Rs Lakh)

	Actual					Admmited				
Financial Year (Starting from COD)^1	Year 1	Year 2	Year 3	Year 4	Year 5 & so on	Year 1	Year 2	Year 3	Year 4	Year 5 & so on
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipment	NOT APPLICABLE									
Financing Details										
Loan 1										
Loan 2										
Total Loan										
Equity										
Internal Resources										
Others (pl. specify)										
Total										

Note :

1. Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent Financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per Form 7 or 8 whichever is relevant.

उप. महा प्रबन्धक (वि/य)
Dy. General Manager (E/M)
का. मंडल प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीमघाट, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/य) / मंडल प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीमघाट, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Petitioner

PART-I
FORM-12

STATEMENT OF DEPRECIATION

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

(Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Remarks
Opening Capital Cost	1,54,867.66	1,54,570.93	1,56,792.07	1,56,856.35	1,58,507.90	1,61,968.78	
Closing Capital Cost	1,54,570.93	1,56,792.07	1,56,856.35	1,58,507.90	1,61,968.78	1,62,690.27	
Average Capital Cost	1,54,719.30	1,55,681.50	1,56,824.21	1,57,682.12	1,60,238.34	1,62,329.53	
Land Value	150.17	150.17	150.17	150.17	150.17	150.17	
Rate of Depreciation%							
Gross Block excluding land	**1,54,569.13**	**1,56,641.33**	**1,56,674.04**	**1,57,531.95**	**1,60,088.17**	**1,62,179.36**	
Depreciable Value	1,39,112.21	1,39,976.20	1,41,006.64	1,41,778.76	1,44,079.35	1,45,961.42	
Balance useful life at the beginning of the period	5.92	4.92	3.92	2.92	1.92	0.92	
Cumulative Depreciation upto previous year	1,21,117.33	1,23,736.72	1,27,037.63	1,30,601.30	1,34,429.20	1,39,455.32	
Remaining Depreciable Value	17,994.88	16,241.48	13,968.80	11,177.46	9,650.16	6,506.10	
Depreciation (for the period)	**3,039.68**	**3,301.11**	**3,563.47**	**3,827.90**	**5,026.12**	**7,071.85**	
Depreciation (Annualized)	**3,039.68**	**3,301.11**	**3,563.47**	**3,827.90**	**5,026.12**	**7,071.85**	
Cumulative Depreciation at the end of the period	1,24,157.01	1,27,037.63	1,30,601.30	1,34,429.20	1,39,455.32	1,46,527.17	
Less: Cumulative depreciation adjustment on account of undischarged liabilities deducted as on 01.04.2009/Station COD	-	-	-	-	-	-	
Less: Cumulative depreciation adjustment on account of decapitalization	420.29						
Net Cumulative Depreciation at the end of the period	**1,23,736.72**	**1,27,037.63**	**1,30,601.30**	**1,34,429.20**	**1,39,455.32**	**1,46,527.17**	

1. In case of details of FERV , give information for the applicable period

(Petitioner)

उप. महा प्रबन्धक (सि/प)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोक्खो, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger(F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (सि/प)/कार्यपालक निदेशक
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोक्खो, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges1

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : ASSAM GAS BASED POWER PLANT

Sl	Month	Unit	2018-2019					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	42620.24		42013.17		43358.02	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	42620.24		42013.17		43358.02	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	42620.24		42013.17		43358.02	
6	Amount charged by the Gas Company (Transportation Charge Included)	(Rs.)	310130180		323545857		325786652	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	310130180		323545857		325786652	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	**(Rs.)**	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+13)**	**(Rs.)**	**310130180**		**323545857**		**325786652**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	7276.59		7701.06		7513.87	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	8906.000		9191.000		9185.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	**7496.304**					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9094.064477					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

उप. महा प्रबन्धक (वि./प)
Dy. General Manager (E/M)
का. केन्द्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकाखो, बोकुलोनी

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Kamrup

मुख्य महा प्रबन्धक (वि./प)/ केन्द्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोकाखो, बोकुलोनी
AGBP, NEEPCO, Bokuloni

(Petitioner)

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges1								
Name of the Petitioner :		NORTH EASTERN ELECTRIC POWER CORPORATION LTD.						
Name of the Generating Station :		ASSAM GAS BASED POWER STATION						
Place (Region/District/State):		North Eastern Region District: DIBRUGARH State: ASSAM						
Sl	Month	Unit	2019-2020					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	35920.95		45810.33		36954.16	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	35920.95		45810.33		36954.16	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	35920.95		45810.33		36954.16	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	238254768		337254615		268770187	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	238254768		337254615		268770187	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	**(Rs.)**	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+13)**	**(Rs.)**	**238254768**		**337254615**		**268770187**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	6633.03		7361.98		7273.07	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9195.000		9151.000		9224.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	7113.674					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9187.348995					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal and price should be submitted as certified by statutory auditor.

(Petitioner)

उप. मुख्य प्रबन्धक (वि/ख)
Dy. General Manager (E/M)
कार्यालय मुख्याधिकारी, O/o the Head of Plant
ए.जी.बी.पी., नीमाटी, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/ख) / संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीमाटी, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges1								
Name of the Petitioner :		NORTH EASTERN ELECTRIC POWER CORPORATION LTD.						
Name of the Generating Station :		ASSAM GAS BASED POWER STATION						
Place (Region/District/State):		North Eastern Region District: DIBRUGARH State: ASSAM						
Sl	Month	Unit	2020-2021					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	41808.61		38070.40		42087.62	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	41808.61		38070.40		42087.62	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	41808.61		38070.40		42087.62	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	174784232		155635303		178440918	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	174784232		155635303		178440918	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	**(Rs.)**	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+13)**	**(Rs.)**	**174784232**		**155635303**		**178440918**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	4180.58		4088.09		4239.75	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9189.000		9157.000		9157.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	**4172.129**					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9167.969192					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

Dy. General Manager (E/M)
उप. मंडल प्रबंधक (वि.प)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकाखोनी, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि.प्र.) / मेसर्स इनपुट (Petitioner)
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोकाखोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges1								
Name of the Petitioner :		NORTH EASTERN ELECTRIC POWER CORPORATION LTD.						
Name of the Generating Station :		ASSAM GAS BASED POWER STATION						
Place (Region/District/State):		North Eastern Region District: DIBRUGARH State: ASSAM						
Sl	Month	Unit	2022-2023					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	37661.75		38451.99		40283.31	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	37661.75		38451.99		40283.31	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	37661.75		38451.99		40283.31	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	751499825		817463656		830833143	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	751499825		817463656		830833143	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	**(Rs.)**	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+13)**	**(Rs.)**	**751499825**		**817463656**		**830833143**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000	19953.93		21259.33		20624.75	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9191.000		9256.000		9112.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	20617.331					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9185.132139					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal and price should be submitted as certified by statutory auditor.

Dy. General Manager (E/M) / HOP
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
AGBPP LO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/य)/ मोहरे प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

(Petitioner)

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges1								
Name of the Petitioner :		NORTH EASTERN ELECTRIC POWER CORPORATION LTD.						
Name of the Generating Station :		ASSAM GAS BASED POWER STATION						
Place (Region/District/State):		North Eastern Region District: DIBRUGARH State: ASSAM						
Sl	Month	Unit	2021-2022					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	41935.74		42437.94		45472.10	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	41935.74		42437.94		45472.10	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	41935.74		42437.94		45472.10	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	275862808		288497849		314090067	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	275862808		288497849		314090067	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	**(Rs.)**	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+12)**	**(Rs.)**	**275862808**		**288497849**		**314090067**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	6578.23		6798.11		6907.31	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9153.000		9136.000		9211.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	6765.339					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9167.755478					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Dy. General Manager (E/M)
उप. सेवेंद्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

~ 202 ~

PART-I
FORM-17

DETAILS OF CAPITAL SPARES	
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM
Date of Commercial Operation :	01-04-1999

FY19-20

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (If Applicable)	Claimed as a part of stores and spares
	Name of spare	Amount (in Rs.)				
1	Actuator ASM Gas Regulating	8.28	-			
2	NBL Piston - 275 Diameter	8.37	8.37			
3	NBL HEAD CYNLINDER ASSM	13.29	13.29			
4	Seal Assy. With Seal Support Bars	16.19	-			
5	Gear Box: GS315/GZ30	15.92	-			
6	Gas Leakage Detection System	11.24	11.24			
7	Capacity Control VLV Actuator	15.59	-			
8	Nozzle Ring	9.46	-			
9	Piston Rod	21.16	21.16			
10	Blade Kit- Turbine Rotor Stage-I	590.00	590.00			
11	Nozzle Assembly Turbine Stage-III	458.15	458.15			
12	Shroud Set Turbine Stage # 3	40.12	40.12			
13	245 KV HV Bushing +15MVA Stationery Transformer	8.85	-			
14	HV Bushing+50MVA Generator Transformer	8.85	-			
15	Bearing Thrust/ Bearing Thrust Tilting Pad	6.20	-			
16	P-N: 43969-0000/Flame Detector Ignition System	31.11	-			
17	Chamatograph Natural Gas With Accessories	65.86	-			
18	Complete Set of control VLV, CV-20/21	10.79	-			
19	Complete Cycle Gear Model ZS6-616	7.29	-			
20	Thrust Bearing Assy/Thrust BRG (Complete Set)	56.20	-			
21	Instrument Air Compressor/Instrument Air Drier Exhaust Valve, Cyl Model	5.11	-			
22	Nozzle Arrgt Turbine Stage I, Nozzle Arrgmt Stage 1 (PGMA-35118)	367.61	-			
23	Nozzle Arrgt Turbine Stage 2, 2nd stage nozz, Assy FR68	563.66	-			
24	Nozzle Arrgt Turbine Stage 3, NIL	458.15	-			
25	Blade Kit Turbine Rotor Stage 3, NIL	383.10	-			
26	Shroud Set Turbine Stage #3	40.12	40.12			
27	Quill Shaft for MOP	6.66	6.66			
28	16.25 Inch Cylinder Assy	137.11	-			
29	90AF 30A, Complete Actuator, GTG814, Rotork Make (WD-2220-00-02)	13.94	6.97			
	Grand Total	3,377.68	1,196.09			

Total Spares Capitalized in FY19-20	3,377.68	
Spares consumed and claimed in FY20-21	**1,785.08**	**To be claimed as Capital Spares in FY20-21**
Spares consumed and claimed in FY19-20	**1,196.09**	**To be claimed as Capital Spares in FY19-20**
Spares not utilized	396.51	Part of Exclusion

Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Bokuloni

Dy. General Manager (E/M)
O/o the Head
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

MORUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

(Petitioner)

PART-I
FORM-17

Details of Capital Spares					
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.				
Name of the Generating Station :	ASSAM GAS BASED POWER STATION				
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM				
Date of Commercial Operation :	01-04-1999				

FY20-21 — In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional	Funded through compensat	Funded through Special	Claimed as a part of stores and
	Name of spare	Amount (in Rs.)				
1	Bearing Set for LGB	97.65	97.65			
2	Set of Bearing for MOP (1SET=4NOS)	16.26	16.26			
3	Blade Kit Turbine Rotor Stage-I Blade Kit Turbine Rotors	590.00	590.00			
4	CMR 925 Rexnord Make Thomash Coupling	6.06	-			
5	CMR 925 Rexnord Make Thomash Coupling	12.91	-			
6	Diphargm Row-16	55.24	-			
7	Combustor Basket Assy ,Combustor Basket Unit 1-2-5-6	95.63	-			
8	Combustor Basket Assy ,Combustor Basket Unit 3-4	47.81	-			
9	Combustor Basket Assy ,Combustor Basket Unit 7-8	47.81	-			
10	Combustor Basket Assy ,Transition Piece	206.13				
11	Turbine Blade Ring & Static Row unit 1-2-3	267.58				
12	Turbine Blade Ring & Blade Static Row unit 1-2-3	24.15				
13	Turbine Blade Ring & Blade Static Row unit 1-2-3	256.94				
14	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RU)	12.85				
15	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (BS)	12.85				
16	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (LU)	12.85				
17	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RL)	12.85				
18	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,supporter #1(Horizontal)	60.72				
19	Bypass Valve Actuator	6.17				
20	Discharge Valve Actuator	7.58				
21	Bearing Insulation	7.63				
22	Cap & Liner Arrgt-Combustion ,Comb Linear Assy(G-24)	42.25	42.25			
23	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgma-35111)(G-25)	21.13	21.13			
24	Case & Shroud Arrgt ,Turbine ,Kit of 36 Shrouds Stage 1	88.96	88.96			
25	Compressor wheel	22.35	22.35			
26	Ratchet Mechanism/ Com. Freewheel Assy.	11.50	11.50			
27	Module-DIAG , IGN PWR (IPM-D)	5.11	-			
28	Housing Assy Wastegate, 3 IN R.B	9.43	9.43			
29	Housing Assy Wastegate, 3 IN R.B	9.43	9.43			

Chief General Manager (EM&M / HQ)
AGBP, NEEPCO, Bokuloni

General Manager (EM)
O/o the Head
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

30	LGB Coupling Hardware (Nut, Bolt washer) between GEN and Gear Box	16.09	-			
31	Diverter Damper, Air barrier Fan & Motor assy	7.38	7.38			
32	Bearing, Thrust/Bearing Thrust Tilting Pad	6.20	-			
33	Flame Detector (28FD) Miscellenous	16.04	16.04			
34	Pressure Indicator Controller (PIC) GBS MHI Make	9.72	-			
35	Load Coupling & Hardware	22.77	-			
36	Actuator, Heinzmann	22.62	22.62			
37	Air Starter Motor TDI	6.90	6.90			
38	Bulk Acid Storage Tank, MOC; MSRL	8.05	8.05			
39	Housing Assy Wastegate, 3 III R.B	20.19	20.19			
40	Housing Assy Wastegate, 3 III R.B	20.19	-			
41	Housing Assy Wastegate, 3 III R.B	10.33	-			
42	Housing Assy Wastegate, 3 IN R.B	10.33	-			
43	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgma-35111)(G-26)	31.69	31.69			
44	Cross Head	16.15	-			
45	Piston Rod	24.02	24.02			
46	Piston and rod assembly 23 Inch HOS	33.14	-			
47	Water Pump Kit	5.13	-			
48	Overhaul Kit, JWPump	5.58	-			
49	Mandatory Spares for VMS, Metrix Setpoint	52.22	-			
50	Suction Control Valve with Actuator, Full Set	36.95	-			
51	NBL Piston,9:1 275 Diameter	9.34	-			
52	EXT N/WORK PROT SYSTY OF ABT MONIT SYS FOR INTEGRATION OF OTHER SYSTEM	8.97	-			
53	SILICA ANALYZER WITH PANEL	7.26	-			
54	Bearing Thrust/ Bearing Thrust Tilting Pad	6.20	6.20			
55	Nozzle Arrgt Turbine Stage I, Nozzle Arrgmt Stage 1 (PGMA-35118)	367.61	367.61			
56	Nozzle Arrgt Turbine Stage 2, 2nd stage nozz, Assy FR6B	563.06	563.06			
57	Nozzle Arrgt Turbine Stage 3, NIL	458.15	458.15			
58	Blade Kit Turbine Rotor Stage 3, NIL	383.10	383.10			
59	90AF 30A, Complete Actuator, GTG#1'4, Rotork Make (WD-2220-00-02)	6.97	6.97			
	Grand Total	4,263.16	2,830.93			

Total Spares Capitalized in FY20-21	4,263.16	
Spares consumed during FY20-21	**2,830.93**	**To be claimed as Capital Spares**
Spares not utilized	1,432.23	Part of Exclusion

(Petitioner)

MORU GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

PART-I
FORM-17

Details of Capital Spares	
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM
Date of Commercial Operation :	01-04-1999

FY21-22 — In Lakhs

1	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	47.43	47.43			
2	MODULE-DIAG,IGN PWR(IPM-D):GAS ENGINE	5.66	5.66			
3	1ST STG NOZZLE BODY&DIFUS-MAIN EJEC (Spares for Steam Air Jet Ejector : Condenser air	19.73	-			
4	2ND STG NOZZLE BODY&DIFUS-MAIN EJECTOR (Spares for Steam Air Jet Ejector : Condenser air)	15.48	-			
5	BASIC TURBO CHARGER WAUKESHA 12V 275GL+	82.56	-			
6	Cylinder Head Assembly	17.36	-			
7	Assembly NCM	5.17	-			
8	MODULE-DIAG,IGN PWR(IPM-D):GAS ENGINE	5.88	-			
9	Actuator,HEINZMANN:GAS ENGINE-WAUKESHA:1	10.33	10.33			
10	Nozzle Ring	9.64	-			
11	Compressor Wheel	24.09	-			
12	Spares for Cooling tower	22.37	-			
13	Circuit Breaker	18.46	18.46			
14	Compressor Casing Complete-72	6.93	-			
15	Wall Insert-77000	5.45	-			
16	Turbine Casing-51000	10.40	-			
17	Nozzle Ring(Spares)	9.64	-			
18	Spares for GBS Wawksa	22.08	-			
19	Gas Compressor Piston Rod Assembly for Gas Boster	35.12	35.12			
20	Spares of Steam Turbines Model HNK-71/2.8/32-4, 30 MW	18.55	18.55			
21	Mandatory Spares for Circuit Breaker	7.82	-			
22	VT PUMP Pump model: 400TE3C4 with accessories	8.79	8.79			
23	VT PUMP Pump model: 400TE3C4 with accessories	8.79	8.79			
24	Bulk acid tank	14.96	14.96			
	Grand Total	**432.70**	**168.10**			

Total Spares Capitalized in FY21-22	432.70	
Spares consumed	**168.10**	**To be claimed as Capital Spares**
Spares not utilized	264.60	Part of Exclusion

(Petitioner)

Chief General Manager (F&A) / HQP
O/o the Chief General Manager (F&A), HQP
N.E.E.P.C.O., Shillong
A.G.B.P., NEEPCO, Bokuloni

Sr. Manager (F)
O/o - General Manager (O/M)
O/o the Head of PP
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
AGBP LTD
Bokuloni, Dist. Dibrugarh

MONU GOGOI & CO.
Cost Accountant
Mem. No. 41585

PART-I
FORM-17

Details of Capital Spares	
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM
Date of Commercial Operation :	01-04-1999

FY22-23 — In Lakhs

Sl. No.	Details of Capital Spares and Expenses: Name of spare	Amount (in Rs.)	Claimed as a part of additional	Funded through compensat	Funded through Special	Claimed as a part of stores and
1	Head Cylinder - WAUKESHA 12 V275GL+	21.09	0.00			
2	NBL PISTON 9:1 275 ENGINE/12V 275 GL+	23.62	0.00			
3	NBL LINER CYL ENGINE ENGINE-12V 275GL+	10.75	0.00			
4	Module, Ignition Control(NCM), Gas Engin	10.35	0.00			
5	ACTUATOR ASM, GAS REGULATING:GAS ENGINE	5.55	5.55			
6	Gas Compressor, 23 inch Piston & Rod ass	35.13	35.13			
7	CYLINDER 23 INCH FOR GBS	205.62	0.00			
8	PISTON & ROD:GBS:GAS COMP:16.25" CYL	25.48	0.00			
9	ACTUATOR	11.22	11.22			
10	AIR STARTER MOTOR 293435L 12V 275GL+	8.32	0.00			
11	UPPER PART OF BEARING SHELL:STG 30MW	9.21	0.00			
12	3Ph-MOTOR IS:325 4POLE-1500RPM 75kW-280S	5.60	0.00			
13	STEAM TURBINE ROTOR	478.26	0.00			
14	6.6 KV, 550 KW Vertical CW Pump Motor	77.40	77.40			
15	COMP. CG MODEL ZS6-25:HUMBOLDT WEDAG	7.61	0.00			
16	SCROLL CONVEYOR ASSEMBLY: CETRIFUGE	12.26	12.26			
17	KORLOSKER PUMP	8.21	0.00			
18	PROPELLER SHAFT TRANSVERSE DRIVE	21.93	0.00			
19	FLAME DETECTOR 315A2708P001 (26FD)	18.76	0.00			
20	ROTORK GEAR BOX RH SIDE	42.95	0.00			
21	ROTORK GEAR BOX LH SIDE	42.95	0.00			
22	ACTUATOR,HEINZMANN,GAS ENGINE-WAUKESHA 1	59.96	59.96			
23	TORQUE CONVERTER TWINDISC 4-SGE-2015-1	130.50	0			
24	50 MVA GT (BHEL)	525.1	0			
	Total	1797.83	201.53			

Total Spares Capitalized in FY22-23	1,797.83	
Spares consumed during FY22-23	201.53	To be claimed as Capital Spares
Spares consumed during FY23-24	570.55	To be claimed as Capital Spares
Spares not utilized	1,025.76	Part of Exclusion

(Petitioner)

Chief General Manager (E/M) / HOD
O/o the Head of PP
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
AGBP
Bokuloni, Dist. Dibrugarh

MOKU GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

PART-I
FORM-17

Details of Capital Spares	
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM
Date of Commercial Operation :	01-04-1999

FY23-24

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional	Funded through compensat	Funded through Special	Claimed as a part of stores and
	Name of spare	Amount (in Rs.)				
1	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	59.96	0.00			
2	REDUCTION GEAR UNIT(SR 36 GRDR)	22.90	22.90			
3	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	12.48	0.00			
4	Module, Ignition Control (NCM), Gas Engine	6.70	0.00			
5	Housing Assy Wastegate 3 in LB WAUKESHA	25.95	25.95			
6	Housing Assy Wastegate 3 in RB WAUKESHA	26.00	0.00			
7	CHROMATOGRAPH-GAS:ROSEMOUNT SPS:PCBA CPU	6.00	0.00			
8	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	26.20	0.00			
9	Gas Compressor, 23 inch Piston & Rod ass	36.70	36.70			
10	Gas Compressor, 23 inch Piston & Rod ass	0.43	0.00			
11	50 MVA GT	44.53	44.53			
12	VERTICAL TURBINE PUMP (INTAKE)	14.75	14.75			
13	CapitalSparesforFY2023-24_GT	23.51	0.00			
14	Head Cylinder - WAUKESHA 12 V275GL+	21.09	21.09			
15	3Ph-MOTOR IS:325 4POLE-1500RPM 75kW-280S	5.60	5.60			
16	FLAME DETECTOR 315A2705P001 (28FD)	18.76	18.76			
17	50 MVA GT (BHEL)	525.1	525.1			
	Total	876.65	715.38			

Total Spares Capitalized in FY23-24 876.65
Spares consumed during FY23-24 715.38 To be claimed as Capital Spares
Spares not utilized 161.27 Part of Exclusion

(Petitioner)

Dy. General Manager (E/M) & Head of Plant
उप महाप्रबंधक (यां/प्र) एवं संयंत्र प्रमुख
ए.जी.बी.पी., नीपको, बोकुलगांव
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokafool, Dist. Dibrugarh

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलगांव
AGBP, NEEPCO, Bokuloni

PART 1
FORM- 18

Non-Tariff Income	
Name of the Petitioner	North Eastern Electric Power Corporation Ltd
Name of the Power Station	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

In Lakhs

Sl. No	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Interest from Employees on Loan	0.59	1.11	1.47	1.82	0.82	
2	Sale of Tender forms	1.28	1.02	0.35	0.24	0.00	0.04
3	Liquidated Damages	0.48	5.21	2.13	1184.13		1.16
4	Sale of Scraps	0.41	7.60	7.79	6.40	12.32	99.35
5	Transit Hostel Recovery	1.85	4.16	4.65	1.45	2.62	1.09
6	Other Misc. reciepts	0.35	0.02	1.36	0.47	0.02	
7	Grant in Aid	11.11	9.26	26.72	13.96	8.91	2.70
8	Recovery of Rent from employees	2.82	3.23	2.89	2.38	2.54	2.40
9	Recovery of Rent from other	1.67	2.17	1.34	1.63	1.44	4.32
10	Interest Income- Comp. advance	0.40	0.43	0.32			
11	Interest Income- Furniture. advance	0.10	0.14	0.12			
12	Contra for Lease Expenditure		36.49	53.61	71.83	66.56	61.77
13	Liability Written back	37.49	210.25		0.74	0.20	43.73
14	Other Recoveries from Contractor			0.10			
15	EMD Forfeited			0.21			
16	Profit on sale of Fixed asset	0.07		0.15		0.00	1.85
17	Sale of Energy Seving Certificate					25.96	69.09
	TOTAL	58.60	283.11	103.22	1285.07	121.40	287.51

(Petitioner)

उप. महा प्रबन्धक (वि.प)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

MONUI GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

मुख्य महा प्रबन्धक (वि/प)/ मुख्य संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART 1
FORM- 13

Details of Water Charges							
Name of the Petitioner	North Eastern Electric Power Corporation Ltd						
Name of the Power Station	ASSAM GAS BASED POWER STATION						
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM						Amt in INR
Sl. No	Details of Water charges (excluding water cess)		Quantity allocated	Normative consumption at 85% PLF	Rate specified (as per govt. notification or agreement)	Spillage of water (in percentage)	Amount Claimed
	Name of source and quantity	Amount	Unit..				
1	River Buridihing, 2000000 CuM	10,00100.00 per year		1.2 CuM per MWH	same	10	50,00,500.00

(Petitioner)

Dy. General Manager (E/M)
उप. महाप्रबंधक (ई/म)
ए.जी.बी.पी., बोकाखोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Tinsukia

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

मुख्य महा प्रबन्धक (वि/ख)/ सेवेंद्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोकाखोनी
AGBP, NEEPCO, Bokuloni

PART 1
FORM- 20

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY19-20		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.67	42960569	445.84
2	Water Cess**			-

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY20-21		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.57	40449430	80.90
2	Water Cess**			-

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY21-22		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.38	38875181	77.75
2	Water Cess**			-

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY22-23		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.90	41013276	416.49
2	Water Cess**			-

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY23-24		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.9	72342208	197.04
2	Water Cess**			1.46

(Petitioner)

उप. महा प्रबंधक (वि/ख)
Dy. General Manager (E/M)
कार्यालय प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/ख) / HOP
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-D

Break-up of Construction/Supply/Service packages						
Name of the Petitioner :		NORTH EASTERN ELECTRIC POWER CORPORATION LTD.				
Name of the Generating Station :		ASSAM GAS BASED POWER STATION				
Place (Region/District/State):		North Eastern Region District: DIBRUGARH State: ASSAM				
1	Name/No. of Construction/Supply/Service Packages	Package A	Package B	Package C	....	Total Cost of all packages
2	Scope of works' (in line with head of cost break-ups as applicable)	"Not Applicable in case of AGBPS"				
3	Whether awarded through ICB/DCB/Departmentally/Deposit Work					
4	No. of bids received					
5	Date of Award					
6	Date of Start of work					
7	Date of Completion of Work/Expected date of completion of work					
8	Value of Award' in (Rs. Lakh)					
9	Firm or With Escalation in prices					
10	Actual capital expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)					
11	Taxes & Duties and IEDC (Rs. Lakh)					
12	IDC, FC, FERV & Hedging cost (Rs. Lakh)					
13	Sub-total (10 + 11 + 12) (Rs. Lakh)					

Note:

1. The scope of work in any packages should be indicated in conformity of Capital cost break-up for the coal/lignite based plants in the FORM B to the extent possible. In case of Gas/Liquid Fuel based projects, break down in the similar manner in the relevant heads as per FORM C.

2. If there is package, which need to be shown in Indian Rupee and foreign currency (ies), the same should be shown separately along with the currency, the exchange rate and the date e.g. Rs 80 Cr + US$ 50m = Rs 390 Cr at US$=Rs 62 as on say 01.04.14.

(Petitioner)

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

Chief General Manager (EM) / HOP
AGBP, NEEPCO, Bokuloni

PART-I
FORM-H

Statement of Additional Capitalisation during five year before the end of useful life of the Project

Name of the Company :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
COD	01.04.1999

(in Lakh)

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
1	FY19-24	Replacement of old Waukesha Gas Engine 12V275 GL of Unit-4 of GBS along with all auxiliaries like Air Cooled Heat Exchanger (ACHE),Fuel filter	1,961.29	0	1,961.29	0	25(2)(d)	The reasons for replacement of old Waukesha Gas Engine with new higher capacity AT 12V275GL+ Waukesha Gas Engine with its auxiliaries and enhancement of Gas Compressor capacity were as follows: 1. The Old Gas Engine was old and obsolete. 2. There was a design problem for which the engine power was not sufficient to drive the compressor. 3. To increase reliability of the Gas Booster Station (GBS) as well as the plant. 4. The Old Gas Compressors were unable to deliver and 4 units were put into service to run all the 6 numbers of Gas Turbines. There are four numbers of Gas Booster Station to cater service for supply pressurized gas to the Gas Turbines. As per design philosophy, 3 GBS units are in running condition to run 6 numbers of Gas Turbines. As per the approval of the CERC the replacement of 3 (three) out of 4 (Four) numbers of Gas Gas Engines were completed within 2016-19. The reason for not considering the 4th unit during 1st phase were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. There was good numbers of inventories for old Waukesha Gas Engines as well as Gas Compressors. If the replacement of the 4th Gas Engine would completed during 2016-19 to 2019-17, a hugh amount of capital would have been kept in unutilised condition. 3. If all the 4 units were considered for replacement during the period 2014-19 block, the capital cost infused for replacement of 4th GBS unit would have been loaded in the tariff during the period 2014-19 block. However, in this case, the cost impact on the tariff due to Add Cap infused would be for the period 2019-24 block. 4. So, replacement of Gas Engines in phase manner does not have any financial impact on the beneficiaries, rather distributed the expenditure of additional capital cost for replacement of Gas Engines in a segregated manner. In view of the above, hon'ble Commission is requested to allow the cost of	16 YEARS
2	FY19-24	Revamping/modification of the DresserRand Gas Compressor of GBS Unit-4	884.08	0	884.08	0	25(2)(d)		15 YEARS

Dy. General Manager (Cntl)
उप. सहायक प्रबंधक, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
LTD AGBF
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/प) / कार्यालय
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

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Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
3	FY19-20	Up-gradation of 2700- series, BENTELY-NEVADA make Vibration monitoring system of GT-1 and GT-2.	103.00		103.00		25(2)(c)	VMS rack 2700 of M/S Bently-Nevada is obsolete. Spare support is not available. As such, upgradation of Vibration Monitoring Sysytem is essential for safety of the equipment. The OEM has issued obsolete certificate. Installation and commissioning in GTG Unit # 1 on 19/06/2019 and GTG Unit # 2 on 20/06/2019	15 YEARS
4	FY19-20	Replacement of existing UPS with battery Bank for GT controllers and Online monitoring system.	119.78		119.78		25(2)(c)	1) Commission has already been admitted for the Year 2016-17 for an amount of Rs. 104.00 Lakhs and the works has already been completed in 2019-20. 2) The UPS system including Battery for GT controller and online monitoring system have commissioned in 1995. 3) As per guidelines of OEM, the life periods of Tubular Type (Microscopic Rubber) battery is 10-14 years and Pasted Type (Microscopic Rubber) is 5-7 years. 4)As per CEA guidelines issued vide no: 2/0/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension.	15 YEARS
5	FY 19-20	Construction of 20 MVAR Line Reactor	122.72	0	122.72	0	25(2)(C)	As per MOM between NERPC/NERLDC and NEEPCO for system stability of NER grid	15 YEARS
6	FY19-20	Replacement of Tabular Lead Acid Battery 48 V TBS (OPZS) 500AH of PLCC system	30.21	0	30.21	0	25(2)(C)	1)The 48 V DC Battery bank and Calgyre make battery Charger for PLCC has installed initially by PGCIL which was in service since commissioning of the plant (1995). Due to deteriorated condition of the 48 Volts Battery bank, it was advise in the 134th OCC meeting for replacement of the 48 Volts Battery bank. Moreover, the OEM suggested for replacement / upgradation of the same. 2) As per CEA guidelines issued vide no: 2/0/Misc./TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life R&M works for Life Extension. Accordingly, it is necessary for replacement old battery bank for reliable operation of the system	15 YEARS

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			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
7	FY19-24	Upgradation of protection system by replacing existing electro-megnetic relays with numerical relays	18.79	0	18.79	0	25(2)(C)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MPR/01/2010 dtd. 20/9/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incidant or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	15 YEARS
8	FY19-24	Time Syncronization of RTU	2.81	0	2.81	0	25(2)(C)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MPR/01/2010 dtd. 20/9/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 2) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incidant or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 3) It is necessity for time synchronization for the safety and security of grid. 4) DPR/documentry evidence	15 YEARS
9	FY19-24	Gas Leakge System (Major Spares), New System	11.24	0	11.24	0	25(2)(C)	The system was old and obsolete. So, upgraded with new system.	15 YEARS
10	FY19-24	Replacement of Digital Voltage Regulator(DAVR) FOR STG II	18.35	0	18.35	0	25(2)(C)	The existing Unitrol-M AVR system of ABB was obsolete. The Spare support of the old system was not available. As such, to make the system reliable and avoid outages due to non- availability of the spares, the system is replaced with new DAVR. The OEM has issued obsolete certificate	15 YEARS
11	FY19-24	Vibration Monetoring System STG-I and STG#3	129.17	0	129.17	0	25(2)(C)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	15 YEARS

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			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
12	FY19-24	Technical Advisory Services for Turbine Inspection of GT-4	74.38	0	74.38	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
13	FY19-24	MAJOR CAPITALISED SPARES FY19-20	3,378.00	0	3,378.00	0	35(1)(5)	Capital spares for enhance life of the plant	15 YEARS
14	FY19-24	Replacement of old existing hydraulic operated CB with new ABB make spring operated SF6 of Circuit Breaker	162.78	0	162.78	0	25(2)(C)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/955 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	15 YEARS
15	FY19-24	Replacement of Fill Packs of Cooling Tower	91.64	0	91.64	0	25(2)(C)	Fouled fill packs of cooling tower was replaced to improve water distribution as well as to improve cooling tower efficiency. Improvement of cooling tower efficiency improves condenser performance and thereby efficiency of steam turbine improves.	15 YEARS
16	FY19-24	HMI REPACEMENT & Reinstallation including Custom duty	114.94	0	114.94	0	25(2)(C)	Server cum HMI of GT#5 was based on windows-XP and of GT#6 was windows-2007. Service support and Anti-virus update for Windows-XP & 2007 was not available. HMI of GT#5 is replaced with windows-10 and GT#6 is upgraded to windows-10.	15 YEARS
17	FY19-24	Upgradation of HMI Mark Control system	9.44	0	9.44	0	25(2)(C)		15 YEARS
18	FY19-24	Vibration Monitoring & Temperature Monitoring	59.72	0	59.72	0	25(2)(C)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	15 YEARS
19	FY19-24	Vibration Monitoring & Temperature Monitoring	5.59	0	5.59	0	25(2)(C)		15 YEARS
20	FY19-24	Technical Advisory Services for MI with LGB and AGB inspection of BHEL supplied GT U # 5	82.47	0	82.47	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS

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			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
21	FY19-24	Technical Advisory Services for WI with LGB and AGB inspection of BHEL supplied GT U # 6	148.49	0	148.49	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
22	FY19-24	5 Nos Haier Air Condition Outdoor	12.27	0	12.27	0	25(2)(C)	The cooling of the various control cards in DDC panels are essential to avoid any fault in the DDC panel due to heating and consequently to avoid any forced outages of the Gas Turbines. So, considering the urgency and as per Safety committee report, 5 (five) numbers of floor standing AC are installed in addition to the Centralised AC system. Installation of 5 numbers of vertical AC system makes the control system reliable and effective.	15 YEARS
23	FY19-24	MAJOR CAPITALISED SPARES FY20-21	2,476.00	0	2,476.00	0	35(1)(6)	Capital spares for enhance life of the plant	15 YEARS
24	FY19-24	Procurement of Transformer Oil filtration plant of capacity 5000LPH	17.94	0	17.94	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/2/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.	15 YEARS
25	FY19-24	Transformer filtration plant of capacity 1200LPH	4.25	0	4.25	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/2/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.	15 YEARS
26	FY19-24	Single chamber skid mounted type Transformer Oil Storage tank	7.46	0	7.46	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. This is a part of Filtration Plant and necessity for 2MVA Aux. Transformer and same has already been procured for filtration of Transformer oil.	15 YEARS

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			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
27	FY18-24	245 KV 2000AMPS Cirkit Breaker for 220 KV Switch yard	82.95	0	82.95	0	25(2)(C)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/955 dtd.27.09.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1985 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind refernce. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidance for life extension has already submitted.	15 YEARS
28	FY18-24	245 KV 2000AMPS Cirkit Breaker for 220 KV Switchyard	43.71	0	43.71	0	25(2)(C)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/955 dtd.27.09.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1985 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind refernce. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidance for life extension has already submitted.	15 YEARS
29	FY18-24	VT PUMP Pump model: 400TE3C4 with accessories	8.79	0	8.79	0	25(2)(C)	Raw water is collected from the River Bumidhing by pumping water through vertical turbine pump having overall shaft length of 13.5 mtr. Due to lonf shaft as well river silt, life span of intake pump is very less and frequent breakdown take place after two years of operation. Replacement with new pump leads reliable operation as well as minimize O&M expenditure. Installation of new pump is much cost benificial than replacement of wornt out parts.	15 YEARS
30	FY18-24	VT PUMP Pump model: 400TE3C4 with accessories	8.79	0	8.79	0	25(2)(C)	Do.	15 YEARS
31	FY18-24	Bulk acid tank	14.96	0	14.96	0	25(2)(C)	Bulk acid storage tank is required to store HCL as required for regeneration of SAC resin. The existing old acid storage tank were replaced with new tanks for life extension.	15 YEARS
32	FY18-24	Fume Absorbed Acid tank	0.48	0	0.48	0	25(2)(C)	Part of bulk acid storage tank as stated above.	15 YEARS

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1	2	3	4.00	5	6 = (4-5)	7	8	9	10
33	FY19-24	DIGITAL VOLTAGE REGULATOR DAVR	19.41	0	19.41	0	25(2)(C)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 5	15 YEARS
34	FY19-24	DIGITAL VOLTAGE REGULATOR DAVR	1.18	0	1.18	0	25(2)(C)	Service for the above	15 YEARS
35	FY19-24	DIGITAL VOLTAGE REGULATOR DAVR	20.59	0	20.59	0	25(2)(C)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 6	15 YEARS
36	FY19-24	DIGITAL VOLTAGE REGULATOR DAVR	1.89	0	1.89	0	25(2)(C)	Service for the above	15 YEARS
37	FY19-24	CUMMINS ENGINES FOR GT UNITS # 5 (INSTALLATION)	85.91	0	85.91	0	25(2)(C)	Due to dilution of Crank Case Lube Oil with Diesel, the major components like crankshaft, piston etc. of the Starting Diesel Engine got seized. The engine was 25 years old and the repair cost of the old engine is high. As such, it was decided to procure 1 (one) new Starting Diesel Engine.	15 YEARS
38	FY19-24	Upgradation of Centralised AC system by replacing 3 numbers of 70TR water cooled reciprocating chiller Units by high efficiency 85TR water cooled screw chiler along with Cooling Towers	88.19	0	88.19	0	25(2)(C)	The reciprocating type chillers were already crossed 15 years of operation. Due to ageing problem, the performance & efficiency was decreasing day-by-day and hence encountering various type of technical problem. Moreover, the OEM was unable to supply various spares for maintenance due to obsolance of the chillers. Hence, the Central AC plant was upgraded with higher capacity Screw type Chillers, which are more efficient and reliable.	15 YEARS
39	FY19-24	Medium Volt Covered Conductor(MVCC) fit 11 KV Line for intake pump house	15.40	0	15.40	0	25(2)(C)	The part of the 11 KV intake line was converter to MVCC for protection and reliability of the line.	15 YEARS
40	FY19-24	MAJOR CAPITALISED SPARES FY21-22	400.00	0	400.00	0	35(1)(i)	Capital spares for enhance life of the plant	15 YEARS
41	FY19-24	CRR & CRI OF MHI GAS TURBINECOMPRESSOR ROTOR(REFURBISHMENT) original rotor of unit # 3 and installed at GT unit # 2	2,606.76	0	2,606.76	0	25(2)(d)	As per recommendation of OEM, M/s Mitsubishi Corporation, Japan, either CRR-CRI (compressor rotor refurbishment and comprehensive Rotor Inspection) or replacement of turbine rotor of Gas Turbine is necessary to obtain the desired output of the turbine after 1 lakh fired hours. This will enhance the life of the GT.	15 YEARS

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1	2	3	4.00	5	6 = (4-5)	7	8	9	10
42	FY19-24	Upgradation of Electro-magnetic relay to Numerical Relay of Gas Turbine Generators	34.95	0	34.95	0	25(2)(C)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/16, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	15 YEARS
43	FY19-24	Upgradation of EMS (ABT) Energy Management system.	29.74	0	29.74	0	25(2)(C)	Server cum HMI of the system was windows server-2012 & ABT software was PM	15 YEARS
44	FY19-24	DCS CONTROLLER SYSTEM	668.21	0	668.21	0	25(2)(C)	P-13 ABB DCS completed 25-yr operation & spare support was not available. Tro	15 YEARS
45	FY19-24	PLC	26.55	0	26.55	0	25(2)(C)	Allen-bredly (Rockwell) PLC, SLC-500 completed 25 yr operation. Spare suppor	15 YEARS
46	FY19-24	Technical Advisory Service by MHI for GT#2	291.21	0	291.21	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the G	15 YEARS
47	FY19-24	Renovation of existing CO2 flooding system of GT#3 & 4	55.40	0	55.40	0	25(2)(C)	The Power Station has already crossed 25 years of operation. The CO2 system h	15 YEARS
48	FY19-24	SITC of 630 KVA, 11/0.433 KV 3 phase distribution transformer for intake pump house	11.94	0	11.94	0	25(2)(C)	The life of the transformer has already completed.	15 YEARS
49	FY19-24	MAJOR CAPITALISED SPARES FY22-23	1,796.00	0	1,796.00	0	36(1)(b)	Capital spares for enhance life of the plant	15 YEARS

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50	FY19-24	REPLACEMENT OF OLD EXISTING 245 KV CURRENT TTRANFORMER OF 220 KV SWITCHYARD	222.95	0	222.95	0	26(2)(C)	1) As per "Central Electricity Authority (Installation and operation of Meters) Regulations, 2006" and subsequent ammendment, the accuracy class for tariff metering core shall be equal to 0.2S or better, PS for differential protection and 5P20 for other protection. The notifications of CEA issued vide no: CEA-GO-13-15/3/2019-DPR Division dtd. 23/12/2019 may kindly be referred. 2) The accuracy class of our existing old BHEL make CTs for metering core is 0.5 and already crossed more than 25 years. 3) Moreover, as per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.06.2016 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. The copy of CEA Regulations 2006 and guidelines are enclosed for references. 4) Order has already been placed. 5) DPR/documentry evidance for life extension has already submitted.	15 YEARS
51	FY18-24	SITC of Standalone Disturbance Recorder & Event Logger	59.75	0	59.75	0	25(2)(C)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/WP/R01/2010 dtd. 20/9/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. "All operational data, including disturbance recorder, event logger reports, for analysing the grid incidents and grid disturbance, any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 2) Moreover, as per CERC regulations "Recording Instruments such as Data Acquisition System/ Disturbance Recorder/Event Logging Facilities/Fault Locator shall be provided and shall always be kept in working condition in the ISTS for recording of dynamic performance of the system. All users, STUs and CTU shall provide all the requisite recording instruments and shall always keep them in working condition." As such to comply with the CERC regulations, order has already been placed.	15 YEARS
52	FY19-24	Fluke multifunction calibrator with Pump & Sensor	11.72	0	11.72	0	25(2)(C)	For onsite calibration of Control Valves, Positioner etc., Standard Calibrator with pump was not available.	15 YEARS
53	FY19-24	Upgradation of SWAS System of Module1_STG#1	201.74	0	201.74	0	25(2)(C)	System has completed 25-yr and not in operation due to obsolete analyzer and other components.	15 YEARS
54	FY19-24	Spares for CIBI of GT# 5	351.49	0	351.49	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS

उप. महा प्रबन्धक (वि.प्र.)
Dy. General Manager (E/M)
उप. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि.प्र.) / संयंत्र
Chief General Manager (E/M) / Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBPP, NEEPCO, Bokuloni

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
55	FY19-24	Renovation of existing CO2 flooding system of GT#1 & 2	55.40	0	55.40	0	25(2)(C)	The Power Station has already crossed 25 years of operation. The CO2 system is one of the vital integral componenet for safety of the equipment as well as Plant. Since, the CO2 system became old and obsolete, the system has been renovated and upgraded with new system.	15 YEARS
56	FY19-24	Supply, installation, testing & commissioning of 75 KLD STP	40.77	0	40.77	0	25(2)(C)	Installation of STP in a power house is as per statutory requirement	15 YEARS
57	FY19-24	Spares for CIBI of GT# 5	146.00	0	146.00	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
58	FY19-24	M / & OH of Generator & Exciter.	77.00	0	77.00	0	25(2)(C)	The overhauling of Generator & Exciter was carried out as per the guidelines of OEM for life extension of the equipment. Moreover, the stator winding temperature was observed in higher side.	15 YEARS
59	FY19-24	MAJOR CAPITALISED SPARES FY23-24	306.10	0	306.10	0	35(1)(6)	Capital spares for enhance life of the plant	15 YEARS
			17,879.57		17,879.59				

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes

2. Justification for additional capital expenditure claim for each asset should be relevant to regulations under which claim has been made and the necessity of capitalization of the asset.

(Petitioner)

उप. मुख्य प्रबंधक (सि/यं)
Dy. General Manager (E/M)
उप. मुख्य प्रबंधक, ऑ० दि० प्लांट
ए.जी.बी.पी., बोकाजोनी
AGBP, NEEPCO, Bokuloni

Asstt Manger (F)
AGBP, NEEPCO LTD
Bokuloni, Dist. Dhubri

मुख्य महा प्रबन्धक (सि/यं) / संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोकाजोनी
AGBP, NEEPCO, Bokuloni

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PART-I
FORM-I

Details of Assets De-capitalised during the period

Name of the Company :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station : Assam Gas Based Power Station			
Region : NE Region	State: Assam	District: Dibrugarh	

FY2019-20

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	35.76	1999	32.18	
2	Gas Booster Station	Additional Capital Expenditure	10.13	1999	9.12	
3	Gas Booster Station	Additional Capital Expenditure	999.67	1999	899.70	
4	Gas Booster Station	Additional Capital Expenditure	10.24	1999	9.22	
5	Sy.Gear including Cable Connectio 100 Amps above	Additional Capital Expenditure	10.49	1999	9.44	
6	Sy.Gear including Cable Connectio 100 Amps above	Additional Capital Expenditure	6.52	1999	5.87	
7	Steam Turbine	Additional Capital Expenditure	6.37	1999	5.73	
8	Steam Turbine	Additional Capital Expenditure	40.96	1999	36.86	
9	Steam Turbine	Additional Capital Expenditure	3.88	1999	3.49	
10	Steam Turbine	Additional Capital Expenditure	3.86	1999	3.47	
11	Spl. Tools & Plants	Additional Capital Expenditure	41.17	1999	37.05	
12	Furniture &Futura	Exclusion	3.14	1999	3.14	
13	Other E.D.P machines	Exclusion	2.98	1999	2.49	
		Total	1175.17		1057.78	
		Net without exclusion	1,169.05		1,052.13	

Note: Year wise detail need to be submitted.

(Petitioner)

FY2020-21

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	382.65	1999	344.39	
2	Gas Turbine	Additional Capital Expenditure	2.52	1999	2.27	
3	Gas Turbine	Additional Capital Expenditure	10.24	1999	9.21	
4	Gas Booster Station	Additional Capital Expenditure	48.39	1999	24.54	
5	Gas Booster Station	Additional Capital Expenditure	32.68	1999	18.39	
6	Sy.Gear including Cable Connection	Additional Capital Expenditure	55.58	1999	50.03	
7	Fire-fighting Equipments	Exclusion	3.59	1999		
8	Gas Steam Turbine(O&M	Additional Capital Expenditure	23.96	1999	21.56	
9	Cooling Tower	Additional Capital Expenditure	3.35	1999	3.01	
10	Special Tools & Plants	Additional Capital Expenditure	7.33	1999	6.02	
11	Furniture &Futura -Others	Exclusion	0.57	1999		
12	Other E.D.P machines	Exclusion	43.94			
		Total	614.80		479.41	
		Net without exclusion	610.64		479.41	

Note: Year wise detail need to be submitted.

(Petitioner)

उप महा प्रबन्धक (वि/प)
Dy. General Manager (E/M)
कृते, शीर्ष अधिकारी, O/o the Head of Plant
ए.जी.बी.पी., कोपिली, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
AGBP & CO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/प) / कोप्रेस प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., कोपिली, बोकुलोनी
AGBP, NEEPCO, Bokuloni

FY2021-22

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	7.58	1999	6.80	
2	Gas Turbine	Additional Capital Expenditure	8.94	1999	5.97	
3	Gas Turbine	Additional Capital Expenditure	29.39	1999	25.26	
4	Gas Turbine	Additional Capital Expenditure	25.80	1999	21.99	
5	Gas Booster Station	Additional Capital Expenditure	9.19	1999	7.22	
6	Swichgear including cable connection	Additional Capital Expenditure	42.69	1999	36.40	
7	Furniture	Exclusion	0.57	1999	0.57	
8	Cellular Phone	Exclusion	0.23	1999	0.18	
		Total	123.37		104.39	
		Net without exclusion	122.58		103.64	

Note: Year wise detail need to be submitted.

(Petitioner)

FY2022-23

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on
1	2	3	4	5	6	7
1	Temp.Building	Exclusion	44.90	1999	44.90	
2	Gas Turbine	Additional Capital Expenditure	10.43	1999	9.36	
3	Gas Booster Station	Additional Capital Expenditure	3.09	1999	2.60	
4	Gas Booster Station	Additional Capital Expenditure	10.48	1999	8.81	
5	Gas Booster Station	Additional Capital Expenditure	3.35	1999	2.81	
5	Gas Booster Station	Additional Capital Expenditure	17.89	1999	15.04	
7	Sy.Gear including Cable Connection	Additional Capital Expenditure	28.83	1999	-	
8	Gas Sream Turbine	Additional Capital Expenditure	208.31	1999	178.63	
	Gas Sream Turbine	Additional Capital Expenditure	3.65		3.19	
	Gas Sream Turbine	Additional Capital Expenditure	7.84		6.83	
	Fire Fighting Equipment	Exclusion	9.86		9.21	
	Survey Instruments	Exclusion	3.72		3.37	
	Ordinary Tools & Plants	Exclusion	1.12		1.11	
	Camp Equipment	Exclusion	1.10		1.10	
	Furniture &Fixture	Exclusion	3.11		3.03	
	Other E.D.P machines	Exclusion	8.84		8.11	
	Office Equipments	Exclusion	2.70		2.14	
	Hospital Equipments	Exclusion	2.57		2.01	
	Drawing equipments	Exclusion	0.28		0.26	
	Miscellaneous Equipments	Exclusion	1.97		1.89	
	Audio Visual Equipments	Exclusion	5.13		4.90	
	Bi-cycle	Exclusion	0.15		0.15	
	Software	Exclusion	0.65		0.65	
		Total	369.15		310.32	
		Net without exclusion	293.66		227.27	

Note: Year wise detail need to be submitted.

(Petitioner)

उप महा प्रबन्धक (वि/प)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dhubri

मुख्य महा प्रबन्धक (वि/प)/संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

FY2023-24

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	156.79	1999	141.03	
2	Sy.Gear including Cable Connection	Additional Capital Expenditure	72.65	1999	64.64	
3	Gas Sream Turbine	Additional Capital Expenditure	65.74	1999	57.51	
4	Disposal	Exclusion	150.42			
		Total	**445.61**		**263.18**	
		Net without exclusion	295.19		263.18	

Note: Year wise detail need to be submitted.

(Petitioner)

उप महा प्रबन्धक (वि/प)
Dy. General Manager (E/M)
कृते संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
AGBP, NEEPCO LTD AGBP
Rokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/प) / संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-J

Reconciliation of capitalisation claimed vis-à-vis books	
Name of the Company :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	Assam Gas Based Power Station
COD	01-04-1999

In lakhs

Sl No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Closing Gross Block as per IND AS	177206.11	179789.71	180752.22	185989.10	187060.43
2	Add/Less: Adjustments*	0	0	0	0	0
3	**Closing Gross Block as per IGAAP**	177206.11	179789.71	180752.22	185989.10	187060.43
4	Opening Gross Block as per IND AS	171294.63	177206.11	179789.71	180752.22	185989.10
5	**Add/Less: Adjustments***	0.00	0	0	0	0
6	Opening Gross Block as per IGAAP	171294.63	177206.11	179789.71	180752.22	185989.10
7	**Total Additions as per books (G = 3 - 6)**	5911.49	2583.60	962.51	5236.88	1071.33
8	**Less: Additions pertaining to other Stages (give Stage wise breakup)**	0	0	0	0	0
9	**Net Additions pertaining to instant project/Unit/Stage**	5911.49	2583.60	962.51	5236.88	1071.33
10	**Less: Exclusions (items not allowable / not claimed**	714.90	1477.64	528.89	1660.77	193.55
11	**Net Additional Capital Expenditure Claimed (on accrual basis)**	5196.59	1105.95	433.62	3576.12	877.78
12	**Less: Un-discharged Liabilities (as per IGAAP)**	1385.24	1385.24	0	0	0
13	**Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works (as per IGAAP)**	0	0	1385.24	0	0
14	**Net Additional Capital Expenditure Claimed (on cash basis)**	3811.35	-279.29	1818.86	3576.12	877.78

Note: (1) Form is to be certified by the Auditor and Certificate issued as per the guidelines prescribed by their governing body.

(2) Reason for exclusion of any expenditure shall be given in Clear terms. *Break-up to be specified.

उप. महा प्रबन्धक (वि/य)
Dy. General Manager (EIM)
कृते मंडल प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, सोकुलोनी
AGBP, NEEPCO, Sokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Nagaon

MONOJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

उप महा प्रबन्धक (वि/य)/संयंत्र प्रमुख
Chief General Manager (Petitioner)
ए.जी.बी.पी., नीपको, सोकुलोनी
AGBP, NEEPCO, Sokuloni

PART-I
FORM-K

Statement showing items/assets/works claimed under Exclusions:

Name of the Company :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	Assam Gas Based Power Station
COD	01-04-1999

FY19-20 (in lakhs)

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Renovation of A type Quarters		0.00	64.39		NEEPCO/AGBP/CWC/T-2/2019-19/516 DTD 29.05.2018
2	Renovation & Modernisation of Bank Building		0.00	11.26		NEEPCO/AGBP/CWC/T-92/2018-19/2091 DTD 13.02.2019
3	R & M OF A-Type Quarter NoA-49,50,55,57		0.00	65.64		NEEPCO/AGBP/CWC/T-2/2018-19/544-47 DTD 01.06.2018
4	Construction of Class Room at VKV,AGBP		0.00	8.55		NEEPCO/AGBP/CWC/T-2/2019-20/1231 DTD 28.10.2019
5	Modification & Extension of Toilet & Urinal adjacent with dinning hall of GH-II		0.00	11.59		NEEPCO/AGBP/CWC/T-2/2018-19/2048 DTD 11.02.2019
6	Godrej Unwind Chair		0.00	0.30		
7	Godrej Personal Locker		0.00	1.17		
8	Godrej Chair & Table		0.00	4.18		
9	Misce Equipment		0.00	0.51		
10			0.00	0.10		
11	Misce Equipment		0.00	0.16		
12	Kirloskar MonoblockWater Pump Set 2 Nos		0.00	1.12		NEEPCO/AGBP/UWC/T-3/19-20/111 DTD 09.07.2019
13	Kirloskar MonoblockWater Pump Set 10.0HP		0.00	0.77		NEEPCO/AGBP/UWC/T-3/19-20/317 DTD 16.12.2019
14	Panasonic AC		0.00	1.73		

Dy. General Manager (E/M)
Dy. GM (E/M) & Head of Plant
उप. महाप्रबंधक (वि/य) एवं संयंत्र प्रमुख
उप. महाप्रबंधक (वि/य), श्रोकाशे., रोकाशे, रोकुवारांगी
NEEPCO LTD AGBP
Rokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Kamrupgarh

Deputy General Manager (E/M) / HOP
उप महाप्रबंधक (वि/य) / संयंत्र प्रमुख
उप महाप्रबंधक (वि/य), श्रोकाशे., रोकाशे, रोकुवारांगी
A/GBP, NEEPCO, Rokuloni

15	4 nos Water Purifier		0.00	0.49		
16	Purchase of Motorola		0.00	3.46		
17	Piston & Rod Assembly 23 * HOS	-	0.00	29.00		
18	Capitalisation of Major Spares	-	0.00	4.00		NEEPCO/AGBP/PEM/O&M-08/19-20/80 DTD 29.05.2019
19	Capitalisation of Mandatory Spares for R &M Unit-IV	-	0.00	34.00		
20	Installation Charges of Gas Lekage System	-	0.00	1.00		
21	Technical Advisory Services for Turbine Inspection of GT-4		0.00	74.38		
22	Capital Spares not utilized		0.00	396.51		
			Total	714.90		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc..
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

Statement showing Items/assets/works claimed under Exclusions:

Name of the Company :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station :	**Assam Gas Based Power Station**
COD	**01-04-1999**

FY20-21 *In lakhs*

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Pmt. Internal Wearing & Electification of newly constructed Class Room & Ladies Toilet at VKV,AGBP	0.58	0.00	0.58		NEEPCO/AGBP/UWC/T-06/20-21/09 DTD 29.04.2020
2	Installation of Tube well at B-Type Colony	8.37	0.00	8.37		NEEPCO/AGBP/CWC/19-20/02/547 DTD 30.07.2019
3	Crompton Horizontal OpenWell Submersible Pump Motor	0.22	0.00	0.22		NEEPCO/AGBP/UWC/T-03/2020-21/264 DTD 29.12.2020

Dy. General Manager (E/M)
उप. सेवक प्रबंधक, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनि

Asstt. Manager (F)
AGBP
Rokulon, Dist. Nbrugarh

Chief General Manager (E/M) / मुख्य महाप्रबंधक (वि/यां) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनि
AGBP, NEEPCO, Rokulon

4	SERVER	3.10	0.00	3.10		GEMC-511687787322327 DTD 08.04.2020
5	Monitor & Printer	0.30	0.00	0.30		NEEPCO/AGBP/IT-04/2020-21/45 DTD 11.11.2020
6	18 NOS Laptop	15.07	0.00	15.07		GEMC-511687758169561 DTD 13.11.2020
7	Blower Machine	0.32	0.00	0.32		
8	Automatic Sanitizer Machine	0.60	0.00	0.60		
9	2 Nos Brush Cutter	0.91	0.00	0.91		CWC/1668 DTD 23.03.2021
10	Gyser 25 ltrs	0.11	0.00	0.11		
11	Gyser 25 ltrs 2 Nos	0.23	0.00	0.23		NEEPCO/AGBP/UWC/T-3/20-21/252 DTD 19.12.2020
12	Gyser 25 ltrs 2 Nos	0.24	0.00	0.24		NEEPCO/AGBP/UWC/T-3/20-21/372 DTD 17.03.2021
13	Ahuja Make Speaker BOX for NRC	1.04	0.00	1.04		AGBP/PERS/WE-05/2019-20/6426 DT 20.03.2020
14	8 Nos LED TV	1.68	0.00	1.68		AGBP/PERS/ADMN-14/2020-21/5619-21 DT 10.02.2021
15	Fire Extinguisher	0.38	0.00	0.38		GEMC-51168770976720 DT 12.10.2020
16	5 Nos Hater Air Condision Outdoor	12.27	0.00	12.27		
17	Capital Spares not utilized	1,432.23	0.00	1,432.23		
			Total	**1,477.64**		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc..
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

सुजय चंद्र प्रबन्धक (वि/य)/संयंत्र प्रमुख
Chief General Manager (E&M) / HOP
मु.म.प्र., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Statement showing items/assets/works claimed under Exclusions:

Name of the Company :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station :	**Assam Gas Based Power Station**
COD	**01-04-1999**

In lakhs

	FY21-22
	ACE Claimed under Exclusion

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Kamrup(R)

Dy. General Manager (E&M)
मु. संयंत्र प्रमुख, O/o the Head of Plant
मु.म.प्र., नीपको, बोकुलोनी
AGBP, Bokuloni

Sl. No.	Head of Work / Equipment	Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	Justification
1	2	3	4	5 = (3-4)	6	7
1	Fork Lift	15.95	0.00	15.95		GEMC 511687787765842 DTD 08.02.2021
2	BRUSH/WEED CUTTER	0.92	0.00	0.92		CWC/1668 DTD 23.03.2021
3	HAND OPERATED TREE BRANCH CUTTER	0.18	0.00	0.18		CWC/1668 DTD 23.03.2021
4	TOSHI TOUCH FREE INFRARED HAND DRYER	0.06	0.00	0.06		
5	Top End Ovehauling of GBS Unit-3	195.84	0.00	195.84		HOP/20-21/456 DTD 14.12.2020
6	Microtek UPS EB 1100 (12V)	0.07	0.00	0.07		UWC/20-21/352 DTD 09.03.2021
7	Exide Inva Master IMTT1500	0.15	0.00	0.15		UWC/20-21/352 DTD 09.03.2021
8	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
9	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
10	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
11	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
12	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
13	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
14	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
15	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
16	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
17	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
18	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
19	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021

Dy. General Manager (EM)
Head of Plant
NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Darrugarh

Chief General Manager (E/Mtr.) / HO
AGBP, NEEPCO, Bokuloni

20	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
21	VOLTAS SPILT AIR CONDITIONER 2 TR	0.54	0.00	0.54		UWD/164 DTD 07.08.2021
22	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
23	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
24	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
25	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
26	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
27	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
28	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
29	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
30	hp laserjet printer	0.20	0.00	0.20		
31	12 Ton Hydraulic Mobile Crane -IS:4573	16.73	0.00	16.73		GEMC 511687775863639-1 DTD 04.01.2022
32	Insulation Tester_1000V	0.22	0.00	0.22		GEMC 511687785507074 DTD 31.12.2021
33	Acquaguard for HQP residence	0.27	0.00	0.27		
34	Contruction of boundary wall for grazing land	5.28	0.00	5.28		
35	Security Surviience Room	18.56	0.00	18.56		
	Fume Absorbed Acid tank	0.48	0.00	0.48		
36	Capital Spares not utilized	264.60	0.00	264.60		
			Total	528.89		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc..
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

Statement showing items/assets/works claimed under Exclusions:	
Name of the Company :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Asstt. Manager (F)
LO LTD AGBP
Bokuloni, Dist. Darrugarh

Dy. General Manager (E/M)
Dy. Chief Engineer, O/o the Head of AGBP, NEEPCO, Bokuloni

Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Bokuloni

~ 231 ~

Name of the Generating Station :	Assam Gas Based Power Station
COD	01-04-1999

FY22-23 — In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Renovation Work for Clarifloculator of AGBPS	8.03	0.00	8.03		
2	Renovation of Aerator	4.64	0.00	4.64		
3	Renovation of Intake well pump house	4.89	0.00	4.89		
4	Liquid Nitrogen Storage equipment	0.26	0.00	0.26		
	STIHL HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.25	0.00	0.25		
	Mild Steel Movable Stand for Mounting Digital display	0.23	0.00	0.23		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP All In One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP All In One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022

Dy. General Manager (F/M)
Chief General Manager (F&A) / Head of Plant
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
AGBP
Bokuloni Dist. Karbianglong

	HP 400 G7 SFF Desktop PC, CPU.NO: 1N12330353	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035H	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	Digisol Switch DG-DS 1528	0.13	0.00	0.13		
	8-Ports Managed PoE- Sl No: 94192302021, 00157	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302022, 00158	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302023, 00159	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302024, 00160	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302025, 00161	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302026, 00162	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302027, 00163	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302028, 00164	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302029, 00165	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302030, 00166	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023

Dy. General Manager (E/M)
O/o the Head of Plant
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
LTD AGBP
Bokuloni, Dist. Dibrugarh

Dy. General Manager (E/M) / HOP
O/o the Head of Plant
AGBP, NEEPCO, Bokuloni

	8-Ports Managed PoE- Sl No: 94192302046, 00162	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302048, 00151	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022

Dy. General Manager (E/M)
Dy. Head of Plo
NEEPCO, Bokulont

Asstt. Manger (F)
LTD AGBP
Bokulont, Dist Kbrngpr

General Manager (E/M) / HOP
NEEPCO, Bokulont

	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.54	0.00	0.54		GEMC 511687740694655 DTD 11.03.2022
	Voltriq SmartTV 85' 4k UltraHD -851VOL0920220001	1.75	0.00	1.75		
	Voltriq SmartTV 85' 4k UltraHD -851VOL0920220001	1.75	0.00	1.75		
	USB Camera with Integrated Speaker for VC System.	0.36	0.00	0.36		
	Outdoor Mild Steel Led Display System (8 ft. x 10	4.75	0.00	4.75		
	LG Microwave Oven for Household purposes	0.16	0.00	0.16		

Chief General Manager (E/M) & Head of Plant
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
AGBP, NEEPCO LTD
Bokuloni, Dist. Kokrajhar

Chief General Manager (E/M) / HC
AGBP, NEEPCO, Bokuloni

	Battery	0.19	0.00	0.19		NEEPCO/AGBP/F&S/S-8/2022-23/143 DTD 13.02.2023
	Capital Spares not utilized	1596.31	0.00	1596.31		
			Total	**1,650.77**		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc..
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

Statement showing items/assets/works claimed under Exclusions:

Name of the Company :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station :	**Assam Gas Based Power Station**
COD	**01-04-1999**

FY23-24

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	STIHL HANDHELD BRUSH CUTTER/ LINE TRIMMER .	0.25	0.00	0.25		
2	HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.08	0.00	0.08		
3	HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.08	0.00	0.08		
4	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
5	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
6	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
7	**Godrej Split Air Conditioner including green AC 35**	0.37	0.00	0.37		
8	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
9	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
10	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
11	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		

Assit. Manger (F)
AGBP LTD AGBP
Rokuloni, Dist. Udalguri

Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Rokuloni

12	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
13	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
14	Chain Pipe Wrench IS : 4123 Length = 920 mm	0.03	0.00	0.03		
15	Chain Pipe Wrench IS : 4123 Length = 920 mm	0.03	0.00	0.03		
16	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
17	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
18	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
19	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
20	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
21	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
22	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
23	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
24	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
25	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
26	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
27	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
28	Semi automated biochemistry analyzer (Arkray)	2.39	0.00	2.39		
29	EPSON MF PRINTER MODEL: L1250, S/No: XSLX00	0.12	0.00	0.12		
30	EPSON MF PRINTER MODEL: L1250, S/No: XSLX00	0.12	0.00	0.12		
31	EPSON MF PRINTER MODEL: L1250, S/No: XSLX00	0.12	0.00	0.12		
32	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
33	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
34	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
35	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
36	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
37	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
38	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
39	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
40	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
41	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
42	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
43	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
44	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
45	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
46	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
47	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
48	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459COJ	0.99	0.00	0.99		
49	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CQW	0.99	0.00	0.99		
50	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRK	0.99	0.00	0.99		
51	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRQ	0.99	0.00	0.99		
52	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRW	0.99	0.00	0.99		

Dy. General Manager (E/M)
Dy. General Manager (E/M), Off-Site Head of Pla
उप महाप्रबंधक (वि/अ), ऑफ-साइट हेड ऑफ प्ला
एजीबीपी, नीपको, बोकाजान
AGBP, NEEPCO, Bokajan

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokajan, Dist Dhemaji

मुख्य महाप्रबंधक (वि/अ)/ मोर्चा प्रमुख
Chief General Manager (E/M) / HC
एजीबीपी, नीपको, बोकाजान
AGBP, NEEPCO, Bokajan

53	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRX	0.99	0.00	0.99		
54	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT2	0.99	0.00	0.99		
55	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT5	0.99	0.00	0.99		
56	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT7	0.99	0.00	0.99		
57	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTF	0.99	0.00	0.99		
58	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTS	0.99	0.00	0.99		
59	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTW	0.99	0.00	0.99		
60	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTY	0.99	0.00	0.99		
61	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTZ	0.99	0.00	0.99		
62	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CV0	0.99	0.00	0.99		
63	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CVK	0.99	0.00	0.99		
64	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CR7	0.99	0.00	0.99		
65	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSQ	0.99	0.00	0.99		
66	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSY	0.99	0.00	0.99		
67	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSZ	0.99	0.00	0.99		
68	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT1	0.99	0.00	0.99		
69	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CV7	0.99	0.00	0.99		
70	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CVC	0.99	0.00	0.99		
71	HP Scanner Flow N6600 fnw1	0.97	0.00	0.97		
72	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
73	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
74	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
75	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
76	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
77	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
78	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
79	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
80	**Capital Spares not utilized**	161.27	0.00	161.27		
			Total	**193.55**		

Note:

1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc..

2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

मुख्य महा प्रबन्धक (वि/ल)/ मंपोदे इहुला
Chief General Manager (E/M)/ HOP
ए.ई.पी.सी.पी., पोमरो, बोकुलोनी
AGBP, NEEPCO, Bokuloni

(Petitioner)

उप महा प्रबन्धक (वि/ल)
Dy. General Manager (E/M)
कार्य प्रभारी अधिकारी, Dy the Head of Plar
ए.ई.पी.सी.पी., पोमरो, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Kamrup

PART-I
Form L

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : Assam Gas Bsed Power Station

FY19-20 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	1,71,294.63		
	b) Amount of capital liabilities in A(a) above	1,385.24		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	4,351.24		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Translarred from CWIP)	2,735.42		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	1,175.17		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	1,77,206.11		
	b) Amount of capital liabilities in E(a) above	1,385.24		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:

1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY20-21 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	1,77,206.11		
	b) Amount of capital liabilities in A(a) above	1,385.24		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	3,198.40		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	-		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	614.80		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	1,79,789.71		
	b) Amount of capital liabilities in E(a) above	1,385.24		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and finascial year start date and end date

(Petitioner)

Dy. General Manager (E/M)
Dy. जनरल मैनेजर (वि/य)
ADSP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Kamrup

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

Chief General Manager (E/M) / मुख्य महाप्रबंधक (वि/य)
AGBP, NEEPCO, Bokuloni

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY21-22 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liabality	Cash Basis
A	a) Opening Gross Block Amount as per books	1,79,789.71		
	b) Amount of capital liabilities in A(a) above	1,385.24		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	612.53		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	473.35		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	123.37		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	1,80,752.22		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

Dy. General Manager (F/M) The Head of Plant AGBP, NEEPCO, Bokuloni

Asstt. Manger (F) AGBPP LTD AGBP Bokuloni, Dist. Kbrugarh

MONU GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

(Petitioner)

Chief General Manager (F/M) / HOP AGBPP, NEEPCO, Bokuloni

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY22-23 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	1,80,762.22		
	b) Amount of capital liabilities in A(a) above	-		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	1949.06		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	3,667.98		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	380.15		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	1,85,969.10		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

उप. महा प्रबंधक (वि/का)
Dy. General Manager (E/M)
उप. संयंत्र प्रमुख, On the Head of Plant
ए.जी.बी.पी., नेपेको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
AGBP LTD AGBP
Bokuloni, Dist. Karbi Anglong

MONOJ GOGOI & CO. Cost Accountant Mem. No. 41585 GUWAHATI

(Petitioner)
मुख्य महा प्रबंधक (वि/का) / मुख्य महा प्रबंधक
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नेपेको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY23-24 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	1,85,989.10		
	b) Amount of capital liabilities in A(a) above	-		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	522.97		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	993.95		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	445.61		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	1,87,060.43		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

Dy. General Manager (F/A)
Sr. Dy. GM(F), O/o the Head of Plant
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Kbrugarh

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

(Petitioner)
Chief General Manager (F/A) / HOP
AGBP, NEEPCO, Bokuloni

PART-I
FORM M

Statement in Capital Works in Progress				
Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.				
Name of the Generating Station : Assam Gas Based Power Station				
FY19-20				(Amount in Rs. Lakh)
Sl.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liability	Cash Basis
A	a) Opening CWIP as per books	152.94	0	152.94
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	2,661.44	0	2661.44
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	2,735.42	0	2735.42
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	98.96	0	98.96
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	- 0.00	-	-
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date

उप. मह प्रबन्धक (वि/ल)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, On the Head of Plant
ए.जी.बी.पी., बोकाजो, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Kbrugarh

(Petitioner)

मुख्य महा प्रबन्धक (वि/ल) / मुख्य प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोकाजो, बोकुलोनी
AGBP, NEEPCO, Bokuloni

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

Statement in Capital Works in Progress

FORM M

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

	FY20-21			(Amount in Rs. Lakh)
Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liability	Cash Basis
A	a) Opening CWIP as per books	-	0	0
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	2,521.53	0	2521.53
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	-	0	0
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	2,521.53	-	2,521.53
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:

1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

Dy. General Manager (E/M)
Asstt. Manger (F)
NEEPCO LTD AGBP
Rokulont, Dist. Dhrigarh
(Petitioner)

MONOJ GOGOI & CO. Cost Accountant Mem. No. 41585 GUWAHATI

Statement in Capital Works in Progress **FORM M**

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

	FY21-22	(Amount in Rs. Lakh)		
Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liabally	Cash Basis
A	a) Opening CWIP as per books	2,521.53	0	2521.53
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	1,885.74	166.00	1,719.74
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	473.35	0	473.35
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	3,933.92	166.00	3,767.92
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

Dy. General Manager (E/M)
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Dibrugarh

Chief General Manager (E&M / HOP)
AGBP, NEEPCO, Bokuloni
(Petitioner)

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

Statement in Capital Works in Progress **FORM M**

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

	FY22-23	(Amount in Rs. Lakh)		
Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liabalty	Cash Basis
A	a) Opening CWIP as per books	3,933.92	166.00	3,767.92
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	3,079.60	0	3,079.60
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	3,667.98	166.00	3,667.98
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	3,345.54	-	3,179.54
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

उप. महा प्रबंधक (वि/प)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीमरुती, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Golaghat

मुख्य महा प्रबंधक (वि/प) / मुख्य प्रमुख
Chief General Manager (E/M) / Head of Plant
ए.जी.बी.पी., नीमरुती, बोकुलोनी
AGBP, NEEPCO, Bokuloni

(Petitioner)

MORANGOGOI & CO. Cost Accountant Mem. No. 41585 GUWAHATI

Statement in Capital Works in Progress **FORM M**

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY23-24 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liability	Cash Basis
A	a) Opening CWIP as per books	3,345.54	-	3,179.54
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	4,173.28	26.12	4,147.16
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	993.96	0	993.96
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	6,524.86	26.12	6,332.74
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Dibrugarh

Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Bokuloni

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

PART-I
FORM-N

CALCULATION OF INTEREST ON NORMATIVE LOAN

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	Assam Gas Based Power Station
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

(In Lacs)

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Gross Normative loan - Opening	79,418.68	79,210.97	80,765.77	80,810.76	81,066.85	84,389.47
	Cumulative repayment of Normative loan upto previous year	77,588.05	79,210.97	80,765.77	80,810.76	81,366.85	84,389.47
	Net Normative loan - Opening	1,830.63	-	-	-	-	-
	Add:Increase due to addition during the year / period	- 207.71	2,373.13	472.44	272.22	2,628.32	816.97
	Less: Decrease due to de-capitalisation during the year / period		818.33	427.45	85.80	205.70	311.92
	Less: Decrease due to reversal during the year / period	-	-	-	-	-	-
	Add:Increase due to discharges during the year / period		-	-	969.67	-	-
	Net Addition	- 207.71	1,554.80	44.99	1,156.09	2,422.62	505.04
	Less : Repayment(s) of Normative Loan during the year	1,994.73	3,301.11	3,553.47	3,827.90	5,026.12	7,071.65
	Repayment adjustment on a/c of de capitalization (F)		1,052.13				
	Net Repayment	1,994.73	2,248.98	3,553.47	3,827.90	5,026.12	7,071.65
	Net Normative loan - Closing	-	-	-	-	-	-
	Average Normative loan	915.31	-	-	-	-	-
	Weighted average rate of interest	9.783%	9.783%	9.783%	9.783%	9.783%	9.783%
	Interest on loan	89.53	-	-	-	-	-

(Petitioner)

उप. मह प्रबन्धक (वि/य)
Dy. General Manager (E/M)
कृते, संयंत्र प्रमुख, O/o the Head of Plant
ए.ई.बी.जी., मीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य मह प्रबन्धक (वि/य)/संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.ज.को.पी., मीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

CALCULATION OF INTEREST ON WORKING CAPITAL					
Name of the Petitioner :	ECTRIC POWER CORPORATION LTD.				
Name of the Generating Station :	S BASED POWER STATION				
Place (Region/District/State):	District: DIBRUGARH State: ASSAM				

(Rs. in lakh)

1. Calculation of Fuel costs:	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Normative Heat Rate	2500	2600	2600	2600	2600	2600
Normative annual plant availability factor (NAPAF) %	72%	72%	72%	72%	72%	72%
Weighted average landed price of primary fuel (Rs./ SCM)	7.2640	7.4963	7.1137	4.1721	6.7653	20.6173
Gross calorific value of primary fuel (kCal/SCM)	9202.940	9094.064	9187.349	9167.969	9167.755	9185.132
Target Energy generation/year (MU)	1005.24	1789.81	1784.92	1784.92	1784.92	1789.81
Target Energy generation/month (MU)	83.77	149.15	148.74	148.74	148.74	149.15
ECR(Rs/KwH)	2.024	2.204	2.070	1.217	1.973	8.001
Cost of Fuel per month (Rs. lakhs)	**2,962.59**	**3,287.29**	**3,078.99**	**1,810.21**	**2,934.71**	**8,950.55**

2. Computation of receivables:						(Rs. in lakh)
Variable Charges per year	20105.40	39447.46	36947.89	21722.50	35216.51	107406.62
Variable Charges - 1 1/2 months	5925.19	4930.93	4618.49	2715.31	4402.06	13425.83
Fixed Charges - 1 1/2 months	5548.35	3778.22	3872.13	3905.04	4164.71	4763.33
Receivables (1 1/2months)	**11473.54**	**8709.15**	**8490.62**	**6620.36**	**8566.78**	**18189.16**

उप. महा प्रबंधक (वि/च)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
O LTD AGBP
Bokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/च)/संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

(Petitioner)

Part-I
Form-O(2)

CALCULATION OF INTEREST ON WORKING CAPITAL		
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Rs. in lakh)

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite [1]						
2	Cost of Main Secondary Fuel Oil [1]						
3	Fuel Cost [2] (for gas fuel only)	2952.59	3287.29	3078.99	1810.21	2934.71	6930.55
4	Liquid Fuel Stock [2]						
5	O & M Expenses	1054.58	912.14	937.03	968.32	1003.28	1049.33
6	Maintenance Spares	3797.55	3283.70	3373.30	3485.95	3611.80	3777.59
7	Receivables	11473.53	0.00	0.00	0.00	0.00	(Petitioner)
8	**Total Working Capital**	**19288.55**	**7483.13**	**7389.32**	**6264.48**	**7549.79**	**13777.47**
9	Rate of Interest	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%
10	**Interest on Working Capital**	**2603.96**	**901.72**	**831.30**	**657.77**	**792.73**	**1653.30**
	SBI MCLR AS ON 1ST APRIL OF EACH YEAR		8.55%	7.75%	7%	7%	8.50%
	+ 350 BASIS POINTS		3.50%	3.50%	3.50%	3.50%	3.50%
	BANK RATE	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%

Note :

1 For Coal based / Lignite based generating stations

2 For Gas Turbine / Combined Cycle generating stations duly taking into account the annual mode of operation (last available)

on gas fuel and liquid fuel

(Rs. in lakh)

YEAR		2019-20	2020-21	2021-22	2022-23	2023-24
Security Exp		406.56	337.65	329.04	352.77	495.08
Water Charge (Form-20)						

(Petitioner)

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Dibrugarh

Dy. General Manager (E/M)
O/o the Head of Plant
AGBP, NEEPCO, Bokuloni

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

मुख्य महा प्रबन्धक (वि/र) / मेसर्स प्रमुख
Chief General Manager (E/M) / HOP
न.पू.वि.नि.नि., बोकुलोनी
NEEPCO, Bokuloni

PART-I
FORM-P

Incidental Expenditure up to SCOD and up to Actual/anticipated COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

(Amount in Rs. Lakh)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD	
A	Head of Expenses:			
1	Employees' Benefits Expenses			
2	Finance Costs			
3	Water Charges			
4	Communication Expenses			
5	Power Charges			
6	Depreciation			
7	Other Office and Administrative Expenses	Not Applicable in Case of AGBP		
8	Others (Please Specify Details)			
9	Other Pre-Operating Expenses			
B	Total Expenses			
	Less: Income from sale of tenders			
	Less: Income from guest house			
	Less: Income recovered from Contractors			
	Less: Interest on Deposits			

(Petitioner)

उप मुख्य महाप्रबंधक (वि/प)
Dy. General Manager (E/M)
तथा मौजूदा कार्यालय, Also the Head of Plant
ए.जी.बी.पी., मोपकोपो, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Tinsukia

मुख्य महा प्रबन्धक (वि/प) / कार्यालय प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., मोपकोपो, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-Q

Expenditure under different packages up to SCOD and up to Actual/anticipated COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : Assam Gas Based Power Station

(Amount in lacs)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD
1	Package 1		
2	Package 2		
3	Package 3	Not Applicable in Case of AGBP	
4	Package 4		
5			
6			

(Petitioner)

Dy. General Manager (Civil)
O/o the Head of Plant
AGBP, NEEPCO, Bokuloni

Assn. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Darrang

Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Bokuloni

PART-I
FORM-R

Actual Cash Expenditure

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

(Amount in lakhs)

Particulars	Quarter-I	Quarter-II	Quarter-III	Quarter-n / DOCO
Expenditure towards Gross Block				
Add: Expenditure towards CWIP	-	-	-	-
Add: Capital Advances, if any	-	-	-	-
Less: Un-discharged liabilities (included above)	Not Applicable in Case of AGBP			
Add/Less: Others	-	-	-	-
Payment to contractors / suppliers towards capital assets	-	-	-	-
Cumulative payments	-	-	-	-

Note: If there is variation between payment and fund deployment justification need to be furnished

(Petitioner)

मु. महा प्रबन्धक (वि/य)
Dy. General Manager (E/M)
मा. दीपक प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
O LTD AGBP
Rokuloni, Dist. Dibrugarh

मुख्य महा प्रबन्धक (वि/य) / संयंत्र प्रमुख
Chief General Manager (E/M) / HOP
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

PART-I
FORM-S

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating : Assam Gas Based Power Station

FY19-20

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2020	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating : Assam Gas Based Power Station

FY20-21

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2021	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating : Assam Gas Based Power Station

Dy. General Manager
Dy. Manager (F)
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
AGBP LTD AGBP
Rokuloni, Dist. Nbrugarh

MONU GOGOI & CO. Cost Accountant Mem. No. 41585 DIBRUGARH

मुख्य महा प्रबन्धक (वि/ले)/ चीफ जनरल मैनेजर
Chief General Manager (E/Ma) / HOP
ए.जी.बी.पी., बोगाईगाँव, बोकुलोनी
AGBP, NEEPCO, Bokuloni

FY21-22

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2022	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	240.78	NIL
	Steam Turbine Unit I,II & III	1999-2000				NIL
	Switch Gear	1995-1996				NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	1,144.46	NIL
	Steam Turbine Unit I,II & III	1999-2000				NIL
	Switch Gear	1995-1996				NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating : Assam Gas Based Power Station

FY22-23

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2023	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
NIL	NIL	NIL	NIL	NIL	NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating : Assam Gas Based Power Station

FY23-24

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2024	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
NIL	NIL	NIL	NIL	NIL	NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

Dy. General Manager (E/M)
O/o the Head of Plant
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Kbrugarh

MONOJ GOGOI & CO
Cost Accountant
Mem. No. 41585
DULIAJAN

Chief General Manager (E/M) / HOP
AGBP, NEEPCO, Bokuloni

(Petitioner)

MONUJ GOGOI & CO.
COST ACCOUNTANT

Ph. No. (+91) 88119 14671
e-mail : monujb25@gmail.com

Ref. No. MISC/94 *Date:* 25/10/2024

AUDIT REPORT

We have audited the attached statement of Form-17 of Assam Gas Based Power Station pertaining to North Eastern Electric Power Corporation Ltd. for the financial year 2019-20, 2020-21, 2021-22, 2022-23, & 2023-24 with the relevant books and records and on the basis of explanation received from the authority found to be in conformity herewith of Capital Spares (put to use). Year wise break is given below:

1. 2019-20 for Rs. 1196.09 Lacs
2. 2020-21 for Rs.2830.93 Lacs
3. 2021-22 for Rs.168.10 Lacs
4. 2022-23 for Rs.201.53 Lacs
5. 2023-24 for Rs.715.38 Lacs

Total Rs. 5,112.03 Lacs

Note: The statement consists of form-17 duly filled in the format supplied by NEEPCO Ltd.

FOR MONUJ GOGOI & CO
COST ACCOUNTANT
Firm Reg. No. 001319

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

CMA MONUJ GOGOI
(Proprietor)
Membership No. 41585
Place: Duliajan, Assam

B.O.C. GATE, 1ST FLOOR BELOW LIC OFFICE, NEAR CENTRAL BANK, P.O. & P.S. : DULIAJAN, 786602, DIST. DIBRUGARH, ASSAM

Project:- Assam Gas Based Power Plant

Major Spares Capitalized -FY19-20

S.No	Main Group	Group Name	Material Code	Material Description	Qty.	Value (Per Quantity)	Capitalized Amount	Head of Account	DATE OF GRN	GRN No.	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR												
1	37	GBS	3719001469	NBL Piston - 275 Diameter	1	9,37,431.68	9,37,431.68	512106-Gas Booster Station	07.06.2019	10190034	20190011 Dt.22.5.2019	20190137 Dt.19.6.2019
2	37	GBS	3719001495	NBL HEAD CYNLINDER ASSM	1	13,28,900.32	13,28,900.32	512106-Gas Booster Station	06.06.2019	10190033	20190011 Dt.22.5.2019	
3	36	GBS	3804090150	Gas Leakage Detection System	1	11,23,767.00	11,23,767.00	512106-Gas Booster Station	24.04.2019	10190007	20190017 Dt.29.5.2019	20190278 Dt.30.8.2019
4	37	GBS	3700020517	Piston Rod	1	21,15,769.00	21,15,769.00	512106-Gas Booster Station	07.06.2019	10190036	20190061 Dt.18.2.2020	20190598 Dt.20.2.2020
5	36	GT	3603050004	Blade Kit- Turbine Rotor Stage-I	1	5,90,00,000.54	5,90,00,000.54	512102- Gas Turbine	17.06.2019	10190069	20190069 Dt.31.3.2020	20196692 Dt.31.3.2020
6	36	GT	3603110015	Nozzle Assembly Turbine Stage-III	1	4,58,15,251.54	4,58,15,251.54	512102- Gas Turbine	17.06.2019	10190069	20190079 Dt.16.3.2020	20196653 Dt.16.3.2020
7	36	GT	3603110024	Shroud Set Turbine Stage # 3	1	40,12,000.04	40,12,000.04	512102- Gas Turbine	17.06.2019	10190069	20190079 Dt.16.3.2020	
13	36		3603110024	Shroud Set Turbine Stage #3	1	40,12,000.04	40,12,000.04	512102- Gas Turbine	13.03.2020	10190185	20190079 Dt.16.3.2020	20190653 Dt.16.3.2020
14	36		3611000094	Quil Shaft for MOP	1	6,66,417.69	6,66,417.69	512102- Gas Turbine	12.03.2020	10190165	20190083 Dt.18.3.2020	20190661 Dt.18.3.2020
15	36		3611250006	90AF 30A, Complete Actuator, GTG#1/4, Rotork Make (WD-2220-00-02)	2	6,97,070.00	6,97,070.00	512102- Gas Turbine	13.03.2020	10190187	20200001 Dt 1.6.2020/ 20200040 Dt.31.3.2021	20200086 Dt.3.6.2020/ 20200722 Dt.31.3.2021
						TOTAL	11,96,68,697.85					
MATERIALS NOT UTILISED DURING THE YEAR												
1	37	GBS	3719000615	Actuator ASM Gas Regulating	1	8,27,967.07	8,27,967.07	512106-Gas Booster Station	11.06.2019	10190038	NIL	NIL
2	36	GT	3628020269	Seal Assy. With Seal Support Bore	1	16,19,204.94	16,19,204.94	512102- Gas Turbine	03.05.2019	10190009	NIL	NIL
3	36	GT	3628020311	Gear Box: GS315/GZ30	2	7,95,827.50	15,91,655.00	512102- Gas Turbine	14.05.2019	10190019	NIL	NIL

Dy. General Manager (E/M)
उप. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नेपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Darrugarh

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

4	38	C&I	3804090141	Capacity Control VLV Actuator	2	7,75,088.68	15,50,177.36	512106-Gas Booster Station	14.08.2019	10190068	NIL	NIL
5	37	GBS	3717000293	Nozzle Ring	1	9,46,480.36	9,46,480.36	512106-Gas Booster Station	06.07.2019	10190055	NIL	NIL
6	39		3920010009	245 KV HV Bushing +150MVA Stationary Transformer	1	8,85,000.00	8,85,000.00	513113-Switch Yard Including Cable Connection	04.02.2020	10190156	NIL	NIL
7	39		3920000019	HV Bushing+50MVA Generator Transformer	1	8,85,000.00	8,85,000.00	513113-Switch Yard Including Cable Connection	04.02.2020	10190156	NIL	NIL
8	38		3830090008	P.N: 49060-00001Flame Detector Ignition System	1	31,11,026.00	31,11,026.00	512102- Gas Turbine	13.11.2019	10190115	NIL	NIL
9	38		3804060063	Chermatograph Natural Gas With Accessories	1	66,86,851.00	66,86,851.00	512106-Gas Booster Station	04.11.2019	10160107	NIL	NIL
10	38		3810011510	Complete Set of control VLV. CV-20/21	2	5,39,360.02	10,78,720.04	512174- Gas Steam turbine	05.11.2019	10190109	NIL	NIL
11	43		4305060224	Complete Cyclo Gear Model ZS6-ET6	1	7,28,650.00	7,28,650.00	512175-Cooling Tower	18.11.2019	10190117	NIL	NIL
12	35		3505010150	Thrust Bearing Assy/Thrust BRG (Complete Set)	1	56,19,600.00	56,19,600.00	512102- Gas Turbine	04.03.2020	10190178	NIL	NIL
13	35		3515030725	Instrument Air Compressor/Instrument Air Drier Exhaust Valve, Cyl Model	1	5,11,294.00	5,11,294.00	512102- Gas Turbine	04.03.2020	10190178	NIL	NIL
14	37		3700020859	16.25 Inch Cylinder Assy	1	1,37,10,836.00	1,37,10,836.00	512106-Gas Booster Station	02.03.2020	10190174	NIL	NIL
8	36		3600030187	Bearing Thrust/ Bearing Thrust Tilting Pad	1	6,19,609.00	6,19,609.00	512102- Gas Turbine	28.11.2019	10190120	NIL	NIL
9	36		3603020068	Nozzle Arrgt Turbine Stage 1. Nozzle Arrgmt Stage 1 (PGNA-35118)	1	3,67,60,892.05	3,67,60,892.05	512102- Gas Turbine	13.03.2020	10190185	NIL	NIL
10	36		3603030067	Nozzle Arrgt Turbine Stage 2. 2nd stage nozz. Assy FR5B	1	5,63,05,848.00	5,63,05,848.00	512102- Gas Turbine	13.03.2020	10190185	NIL	NIL
11	36		3603040066	Nozzle Arrgt Turbine Stage 3. NIL	1	4,58,15,251.63	4,58,15,251.63	512102- Gas Turbine	13.03.2020	10190185	NIL	NIL
12	36		3603050062	Blade Kit Turbine Rotor Stage 3. NIL	1	3,83,09,837.94	3,83,09,837.94	512102- Gas Turbine	13.03.2020	10190185	NIL	NIL

Dy. General Manager (E/M)
Asstt. Manager (F)
O LTD AGSF
Rokulani, Dist. Nanigarh

MANUJ GOGOI & CO.
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15	38		3811250006	90AF 30A, Complete Actuator, GTG#1'4, Rotork Make (WD-2220-00-02)	2	6,97,070.00	6,97,070.00	512102- Gas Turbine	13.03.2020	10190167	NIL	NIL
						TOTAL	21,81,59,870.39					
				Total			33,77,68,478.24					

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Dy. General Manager (E/M)
उप. महाप्रबंधक (वि/य), मुख्यालय पर
AGBF, NEEPCO, Rokuloni

Asstt. Manger (F)
NEEPCO LTD AGBF
Rokuloni, Dist. Nalbari

MOHIT GOGOI & CO.
Cost Accountant
Mem. No. 41585
DARRANG

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2020-21 (Till 31-03-2021)

Major Spares Capitalized -FY 2020-21

SL	ITEMS	QTY.	M Code	RATE	AMOUNT	HEAD OF ACCOUNT ALONG WITH CODE WHERE IN CAPITALISED	GRN NO	DATE (mm/dd/yy yy)	Ref JV NO	Capitalised During the year	QTY. ISSUED/UTILIZED TILL 31.03.2021	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR													
1	Bearing Set for LGB	1	7190550010010	97,64,607.00	97,64,607.00	512102 (Gas Turbine)	10200002	24.04.2020	02200645	FY2020-21	1	20200086 Dt.5.12.2020	20200838 Dt.5.12.2020
2	Set of Bearing for MOP (1SET=4NOS)	1	3811000030	16,26,126.00	16,26,126.00	512102 (Gas Turbine)	10200002	24.04.2020	02200645	FY2020-21	1	20200084 Dt.2.12.2020	20200840 Dt.2.12.2020
3	Blade Kit Turbine Rotor Stage-I Blade Kit Turbine Rotors	1	3503060004	5,90,00,000.00	5,90,00,000.00	512102 (Gas Turbine)	10200030	25.05.2020	02200644	FY2020-21	1 SET	20200080 Dt.7.12.2020	20200842 Dt.7.12.2020
4	Cap & Liner Arrgt-Combustion ,Comb Linear Assy(G-24)	4	7190201000010	10,56,336.00	42,25,344.00	512102 (Gas Turbine)	10200036	07.07.2020	02200668	FY2020-21	4 NO	20200100 Dt.30.1.2021	20200922 Dt.27.1.2021
5	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgms-3811)(G-25)	2	7190201000020	10,56,336.00	21,12,672.00	512102 (Gas Turbine)	10200036	07.07.2020	02200668	FY2020-21	1 NO	20200100 Dt.30.1.2021	
6	Case & Shroud Arrgt ,Turbine Kit of 36 Shrouds Stage 1	1	7190551000150	86,96,029.44	86,96,029.44	512102 (Gas Turbine)	10200035	06.07.2020	02200672	FY2020-21	1 No	20200083 Dt.2.12.2020	20200841 Dt.2.12.2020
7	Compressor whool	1	83090200006180	22,35,127.00	22,35,127.00	512106 (Gas Booster Station)	10200045	27.07.2020	02200671	FY2020-21	1	20200054 Dt.31.8.2020	20200837 Dt.31.8.2020
8	Ratchet Mechanism/ Cam Freewheel Assy	1	3812000142	11,49,656.00	11,49,656.00	512102 (Gas Turbine)	10200069	22.09.2020	02200763	FY2020-21	1 NO	20200085 Dt.5.12.2020	20200839 Dt.5.12.2020
9	Housing Assy Wastegate, 3 IN R.B	1	83090010060010	9,43,443.00	9,43,443.00	512106 (Gas Booster Station)	10200056	14.09.2020	02200766	FY2020-21	1 NO	20200026 Dt22.9.2020	20200266 Dt.22.9.2020
10	Housing Assy Wastegate, 3 IN R.B	1	83090010060240	9,43,443.00	9,43,443.00	512106 (Gas Booster Station)	10200056	14.09.2020	02200766	FY2020-21	1 NO	20200026 Dt22.9.2020	
11	Diverter Damper, Air carrier Fan & Motor assy	1	71914510000530	7,37,884.94	7,37,884.94	512102 (Gas Turbine)	10200111	09.11.2020	02201250	FY2020-21	1 NO	20200069 Dt.14.12.2020	20200841 Dt.14.12.2020
12	Flame Detector (28FD) Miscellenous	2	63012010003620	8,01,871.29	16,03,742.58	512102 (Gas Turbine)	10200107	03.11.2020	02201252	FY2020-21	2	20200029 Dt.30.1.2021	20200581, Dt.30.1.2021
13	Actuator, Honeywell	1	83090020001020	22,61,926.07	22,61,926.07	512105 (Gas Booster Station)	10200087	08.10.2020	02201256	FY2020-21	1	20200032, Dt.30.9.2020	20200282, Dt.8.10.2020
14	Air Starter Motor TDI	1	83090020001250	6,89,844.52	6,89,844.52	512105 (Gas Booster Station)	10200090	09.10.2020	02201257	FY2020-21	1	20200032, Dt.30.9.2020	
15	Bulk Acid Storage Tank, MOC: MSRL	1	78696010000120	8,04,307.00	8,04,307.00	512175 (Cooling water system)	10200098	16.10.2020	02201258	FY2020-21	1	20200089 Dt.30.10.2020	20200819 Dt.31.10.2020
16	Housing Assy Wastegate, 3 IN R.B	2	83090010060010	10,09,412.53	20,18,827.06	512105 (Gas Booster Station)	10200200	25/02/2021			1 NO	20200080 Dt.19.3.2021	20200833 Dt.22.3.2021
17	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgms-3811)(G-26)	3	4000004099	10,56,336.00	31,69,008.00	512102 (Gas Turbine)	10200036	07-07-2020			3 No	20200100 Dt.30.1.2021	20200922 Dt.27.1.2021
18	Piston Rod	1	72501004000150	24,02,094.00	24,02,094.00	512105 (Gas Booster Station)	10200166	29/01/2021			1 NO	20200081 Dt.19.3.2021	20200536 Dt.20.3.2021
19	Bearing Thrust Bearing Thrust Tilting Pad	1	3800030187	6,19,509.00	6,19,509.00	512102- Gas Turbine	10190120	28.11.2019			1	20200004 Dt.28.4.2020	20200025 Dt.28.4.2020

उप. महा प्रबन्धक (ई/एम)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, C/o the Head of Plant
ए.जी.सी.सी., नीमको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Dibrugarh

MORAR GOGOI & CO
Cost Accountant
Mem. No. 41585

20	Nozzle Arrgt Turbine Stage 1, Nozzle Arrgmt Stage 1 (PGMA-35116)	1	3603020008	3,67,02,892.00	3,67,02,892.00	512102- Gas Turbine	10190186	13.03.2020			1	20200091 Dt.21.12.2020	20200236 Dt.23.12.2020
21	Nozzle Arrgt Turbine Stage 2, 2nd stage nozz, Assy FR66	1	3603030007	5,63,05,848.00	5,63,05,848.00	512102- Gas Turbine	10190186	13.03.2020			1	20200091 Dt.21.12.2020	
22	Nozzle Arrgt Turbine Stage 3, ML	1	3603040005	4,58,15,291.63	4,58,15,291.63	512102- Gas Turbine	10190186	13.03.2020			1	20200091 Dt.21.12.2020	
23	Blade Kit Turbine Rotor Stage 3, ML	1	3603080002	3,83,09,837.94	3,83,09,837.94	512102- Gas Turbine	10190186	13.03.2020			1	20200090 Dt.7.12.2020	20200422 Dt.7.12.2020
24	30AF 30A, Complete Actuator, GTG#14, Rotork Make (MD-0220-00-02)	1	3611250006	6,07,070.00	6,07,070.00	512102- Gas Turbine	10190187	13.03.2020			1	20200001 Dt.1.6.2020/ 20200340 Dt.31.3.2021	20200086 Dt.1.6.2020/ 20200712 Dt.31.5.2021
				TOTAL	36,36,92,591.43								
MATERIALS NOT UTILISED DURING THE YEAR													
1	CMR 925 Rexnord Make Thomash Coupling	1	725030015000300	6,05,871.00	6,05,871.00	512106 (Gas Booster Station)	10200021	16.06.2020	02200381	FY2020-21		NIL	
2	CMR 926 Rexnord Make Thomash Coupling	1	630000100901130	12,90,920.00	12,90,920.00	512106 (Gas Booster Station)	10200021	16.06.2020	02200381	FY2020-21		NIL	
3	Diaphargm Row-16	1	719120200004I0	55,23,773.53	55,23,773.53	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
4	Combustor Basket Assy ,Combustor Basket Unit 1-2-5-6	4	3502000064	23,90,645.00	95,62,580.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	4 NO	NIL	NIL
5	Combustor Basket Assy ,Combustor Basket Unit 3-4	2	3502000073	23,90,645.00	47,81,290.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	2 NO	NIL	NIL
6	Combustor Basket Assy ,Combustor Basket Unit 7-8	2	3502000082	23,90,645.00	47,81,290.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	2 NO	NIL	NIL
7	Combustor Basket Assy ,Transition Piece	8	3502000107	25,76,646.38	2,06,13,171.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	8 NO	NIL	NIL
8	Turbine Blade Ring & Static Row unit 1-2-3	32	719105250000330	8,36,196.00	2,67,58,235.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21	32 No	NIL	NIL
9	Turbine Blade Ring & Blade Static Row unit 1-2-3	2	719105250001240	12,07,630.50	24,15,261.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
10	Turbine Blade Ring & Blade Static Row unit 1-2-3	20	719105250000350	12,84,711.50	2,56,94,230.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
11	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RU)	1	719105250000360	12,84,712.00	12,84,712.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
12	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RS)	1	719105250000070	12,84,712.00	12,84,712.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
13	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (LU)	1	719105250000080	12,84,712.00	12,84,712.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
14	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (LL)	1	719105250000090	12,84,712.00	12,84,712.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
15	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,supporter #1(Horizontal)	1	719105250001380	80,72,274.00	80,72,274.00	512102 (Gas Turbine)	10200040	03.08.2020	02200669	FY2020-21		NIL	NIL
16	Bypass Valve Actuator	1	631845001S2450	6,17,217.00	6,17,217.00	512174 (Steam Turbine)	10200051	17.08.2020	02200673	FY2020-21		NIL	NIL
17	Discharge Valve Actuator	1	631845123002450	7,58,280.00	7,58,280.00	512174 (Steam Turbine)	10200051	17.08.2020	02200673	FY2020-21		NIL	NIL
18	Bearing Insulation	1	719030105040I0	7,53,224.00	7,53,224.00	512174 (Steam Turbine)	10200041	22.07.2020	02200670	FY2020-21		NIL	NIL

Dy. General Manager (EPM) & Head of Plant
LTD AGBF
Rokuloni, Dist. Nagaon

MOHOD GOGOI & CO. Cost Accountant Mem. No. 41585

19	Module-DIAG , IGN PWR (IPM-D)	1	8309020048610	5,11,424.22	5,11,424.22	512106 (Gas Booster Station)	10200064	11.03.2020	02200762	FY2020-21		NIL	NIL
20	LGB Coupling Hardware (Nut, Bolt washer) between GEN and Gear Box	1	7190850010020	19,08,636.20	19,08,636.20	512102 (Gas Turbine)	10200035	07.07.2020	02200765	FY2020-21		NIL	NIL
21	Bearing, Thrust/Bearing Thrust Tilting Pad	1	7190104000050	9,19,599.44	9,19,599.44	512102 (Gas Turbine)	10200105	02.11.2020	02201251	FY2020-21		NIL	NIL
22	Pressure Indicator Controller (PIC) GB3 M/I Make	1	6313326225000	9,71,880.00	9,71,880.00	512106 (Gas Booster Station)	10200109	04.11.2020	02201253	FY2020-21		NIL	NIL
23	Load Coupling & Hardware	1	7190457000040	22,77,122.00	22,77,122.00	512102 (Gas Turbine)	10200102	24.10.2020	02201254	FY2020-21		nil	nil
24	Housing Assy Wastegate 3 IW R.8	2	8309010090240	10,09,413.63	20,18,827.26	512105 (Gas Booster Station)	10000200	25/03/2021				NIL	NIL
25	Housing Assy Wastegate 3 IW R.8	1	8309010090670	10,33,163.59	10,33,163.59	512106 (Gas Booster Station)	10200199	23/03/2021				NIL	NIL
26	Housing Assy Wastegate 3 IW R.8	1	8309010090560	10,33,163.59	10,33,163.59	512105 (Gas Booster Station)	10000198	23/03/2021				NIL	NIL
27	Cross Head	1	7250100100050	16,15,212.00	16,15,212.00	512105 (Gas Booster Station)	10200105	29/01/2021				NIL	NIL
28	Piston and rod assembly 23 inch HDS	1	7250100200020	33,14,122.60	33,14,122.60	512105 (Gas Booster Station)	10200107	29/01/2021				NIL	NIL
29	Water Pump Kit	1	8309010090400	5,12,673.14	5,12,673.14	512106 (Gas Booster Station)	10200152	19/02/2021				NIL	NIL
30	Overhaul Kit JW/Pump	1	8309010090390	5,58,069.06	5,58,069.06	512106 (Gas Booster Station)	10200152	19/02/2021				NIL	NIL
31	Mandatory Spares for VMS, Metric Setscrl	1	6316500004680	52,22,125.00	52,22,125.00	512102 (Gas Turbine)	10200172	02-01-2021				NIL	NIL
32	Suction Control Valve with Actuator, Full Set	2	6318456200250	18,47,280.00	36,94,560.00	512106 (Gas Booster Station)	10200201	25.02.2021				NIL	NIL
33	NBL Piston 9:1 275 Diameter	1	8309010090250	9,33,866.41	9,33,866.41	512106 (Gas Booster Station)	10200152	19/02/2021				NIL	NIL
34	EXT NWORK PROT SYSTY OF ADT MONIT SYS FOR INTEGRATION OF OTHER SYSTEM	1	6319900850000	8,96,800.00	8,96,800.00	512102 (Gas Turbine)	10200205	02.03.2021				NIL	NIL
35	SILICA ANALYZER WITH PANEL	1	6300107791000	7,35,700.00	7,35,700.00	512174 (Steam Turbine)	10200224	31.03.2021				NIL	NIL
				TOTAL	14,32,33,423.14								
				TOTAL	42,63,16,014.57								

Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.सी.पी., नीमती, बोकुलोनी
AGEP, NEEPCO, Bokuloni

Asstt. Manger (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Nbrugarh

MONU GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2021-22 (Till 31.03.2022)

Major Spares Capitalised -FY 2021-22

SL	ASSET DESCRIPTION	ID	MATRN CODE	AMOUNT	SAP ASSET VALUE DATE	Capitalised During the year	QTY. ISSUED/UTILIZED TILL 31.03.2022	Division	COD	Nature	Spares Life	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR													
1	ACTUATOR,HEINZMANN/GAS ENGINE-WAUKESHA::1		3000006003	47,42,968.08	09.04.2021	2021-22	0	Clarkelab	09.04.2021	Capital Spare	More than 3 years	117 Dt.26.4.2021	4900000061 Dt.13.4.2021
2	MODULE-DIAG./IGN PWR(PM-D)/GAS ENGINE		83030020048010	5,65,765.94	09.04.2021	2021-22	0	Clarkelab	09.04.2021	Capital Spare	More than 3 years	37 Dt.10.5.2021	4900000053 Dt.19.04.2021
3	Actuator,HEINZMANN/GAS ENGINE-WAUKESHA::1		3000006447	10,33,466.23	30.12.2021	2021-22	1	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	1068 Dt.19.03.2022	4900000090 Dt.26.3.2022
4	Circuit Breaker		3000006361	18,45,719.80	15.12.2021	2021-22	6	Switchyard	15.12.2021	Capital Spare	More than 3 years	1719 Dt.23.2.2022	4900001823 Dt.25.3.2022
5	Gas Compressor Piston Rod Assembly for Gas Booter		3000000571/ 72501002000020	26,12,071.00	25.03.2022	2021-22	2 No	SFC/GBS	25.03.2022	Capital Spare	More than 3 years	2046 Dt.28.3.2022 & 367 Dt.2.8.2021	4900007101 Dt.28.3.2022 & 4900000415 Dt.3.8.2021
6	Spares of Steam Turbines Model HNK-71/2.8/32-4, 30 MW		3000006434	18,55,620.00	14.03.2022	2021-22	0	STG	14.03.2022	Capital Spare	More than 3 years	2029 Dt.26.3.2022	4900002057 Dt.26.3.2022
7	Sulf. Acid Storage Tank			14,95,071.54									
8	VT Pump			8,79,122.50									
9	VT Pump			8,79,122.50									
			TOTAL	1,68,09,927.07									
MATERIALS NOT UTILISED DURING THE YEAR													
1	1ST STG NOZZLE BODY&DIFUS-MAIN EJEC (Spares for Steam Air Jet Ejector : Condenser air		3000006008	19,79,479.20	29.04.2021	2021-22	0	brwlo	29.04.2021	Capital Spare	More than 10 years	NIL	
2	2ND STG NOZZLE BODY&DIFUS-MAIN EJECTOR (Spares for Steam Air Jet Ejector : Condenser air)		3000006009	15,47,984.80	29.04.2021	2021-22	0	brwlo	29.04.2021	Capital Spare	More than 10 years	NIL	
3	BASIC TURBO CHARGER WAUKESHA 12V 275GL+		3000006012	82,66,236.98	28.06.2021	2021-22	0	SFC/GBS	28.06.2021	Capital Spare	More than 3 years	NIL	
4	Cylinder Head Assembly		3000006011	17,36,217.60	31.12.2021	2021-22	0	SFC/GBS	31.12.2021	Capital Spare	More than 3 years	NIL	
5	Assembly NGM		3000006446	5,15,510.78	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	NIL
6	MODULE-DIAG./IGN PWR(PM-D)/GAS ENGINE		83030020048010	5,87,672.32	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	NIL
7	Nozzle Ring		72503007000290	9,64,212.15	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	
8	Compressor Wheel		3000006445	24,09,844.13	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	NIL
9	Spares for Cooling tower		3000006392	22,38,999.00	15.03.2021	2021-22	0	STG	15.03.2021	Capital Spare	More than 3 years	NIL	NIL
10	Compressor Casing Complete-72		3000006560	6,93,376.26	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
11	Wall Insert-77500		3000006566	5,44,670.00	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	

Dy. General Manager (E/M)
AGBP, NEEPCO, Bokuloni

Asstt. Manager (F)
NEEPCO LTD AGBP
Bokuloni, Dist. Karbi Anglong

Cost Accountant Mem. No. 41585

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12	Turbine Casing-51000		3000003567	10,40,259.68	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
13	Nozzle Ring(Spares)		3000003568	9,64,212.22	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
14	Spares for GBS Wokaze		3000000575	22,08,149.16	16.03.2022	2021-22	0	SFC/GBS	16.03.2022	Capital Spare	More than 3 years	NIL	
15	Mandatory Spares for Circuit Breaker			7,81,500.00	12.08.2021	2021-22	0	STS	12.08.2021	Mandatory Spares	More than 3 years	Nil	
			TOTAL	2,64,60,633.28									
			TOTAL	4,32,69,980.35									

Dy. General Manager (F/A)
ASTC, NEEPCO, Kahilipara

Asstt. Manger (F)
AGBPP LTD AGBP
Rokuloni, Dist. Nbrugarh

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2022-23 (Till 31-03-2023)

Major Spares Capitalized -FY 2022-23

ID	SL NO	ASSET DESCRIPTION	ID	MATPN CODE	SAP MATERIAL CODE	AMOUNT	SAP DOC NO	SAP ASSET VALUE DATE	Capitalised During the year	Division	COD	Nature	Spares Life	QTY. ISSUED/UTILIZED TILL 31.03.2023	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR																
101305000021	2	ACTUATOR ASM, GAS REGULATING GAS ENGINE	101305000021		3000000994	5,55,103.78	2.219E+09	30.06.2022	2022-23	GBS, SFC	30.06.2022	CAPEX	More the 3 years		6752 Dt.30.03.2023	4500006823 Dt.30.03.2023
101305000021	3	Gas Compressor, 23 Inch Piston & Rod ass	101305000021		3000036571	35,12,543.00	2.219E+09	21.07.2022	2022-23	GBS, SFC	21.07.2022	CAPEX	More the 3 years	1 No	6915 Dt.9.12.2022	4500006282 Dt.9.12.22
101305000021	4	ACTUATOR	101305000021		3000039447	11,22,105.69	2.219E+09	01.10.2022	2022-23	SFC	01.10.2022	CAPEX	More the 3 years	1	4533 Dt.17.11.2022	4500004786 Dt.17.11.2022
101327000025	6	6.6 KV, 550 KW Vertical CW Pump Motor	101327000025		3000031079	77,40,328.09	2.219E+09	16.02.2022	2022-23	ST	16.02.2022	CAPEX	More the 3 years	1	6099 Dt.6.3.2023	4500006176 Dt.6.3.2023
101311000053	7	SCROLL CONVEYOR ASSEMBLY: CETRIFUGE	101311000053		3000039977	12,25,256.00	2.219E+09	17.05.2022	2022-23	SFC	17.05.2022	CAPEX	More the 3 years	1	4037 Dt.7.12.2022	4500001253 Dt.7.12.2022
101305000021	9	ACTUATOR,HEINZ MANN:GAS ENGINE-WAUKESHA:1	101305000021		3000039002	59,56,136.00	221902305 0 & 221902305 2	31.01.2023	2022-23	SFC	31.01.2023	CAPEX	More the 3 years	2	3593 Dt.20.09.2022/ 6048 Dt.25.2.23	4500001755 Dt.20.09.2022/ 4500006178 Dt.25.2.23
					TOTAL	2,01,52,534.44										
MATERIALS NOT UTILISED DURING THE YEAR																
101305000021	1	NEL PISTON 8:1 275 ENGINE/12V 275 GL+	101305000021		3000000992	23,61,676.60	2.219E+09	10.06.2022	2022-23	GBS, SFC	10.06.2022	CAPEX	More the 3 years		NIL	
101305000021	2	NEL LINER CYL ENGINE ENGINE-12V 275GL+	101305000021		3000000993	10,75,398.48	2.219E+09	10.06.2022	2022-23	GBS, SFC	10.06.2022	CAPEX	More the 3 years		NIL	
101305000021	3	Module, Ignition Control(NCM), Gas Engin	101305000021		3000000446	10,35,477.14	2.219E+09	30.06.2022	2022-23	GBS, SFC	30.06.2022	CAPEX	More the 3 years		NIL	
101305000021	4	CYLINDER 23 INCH FOR GBS	101305000021		3000001159	2,05,62,296.00	2.219E+09	31.03.2023	22-23	SFC	31.03.2023	CAPEX	More the 3 years		NIL	
101305000021	5	PISTON & ROD:GBS:GAS	101305000021		3000000995	35,45,611.00	2.219E+09	19.10.2022	2022-23	SFC	19.10.2022	CAPEX	More the 3 years		NIL	
101305000021	6	AIR STARTER MOTOR 2934SL 12V 275GL+	101305000021		3000001077	8,32,118.45	2.219E+09	11.01.2023	2022-23	SFC	11.01.2023	CAPEX	More the 3 years		NIL	
101327000020	7	UPPER PART OF BEARING SHELL:STG 30MW	101327000020		3000000435	9,21,320.40	2.219E+09	21.07.2022	2022-23	ST	21.07.2022	CAPEX	More the 3 years		NIL	

उप. महा प्रबन्धक (वित्त)
Dy. General Manager (F/M)
कार्यभार प्रमुख, O/o the Head of Plant
ए.ई.पी.सी., नेपको, बोकाखोनी
AGBP, NEEPCO, Bokuloni

Asstt. Manger (F)
LTD AGBP
Bokuloni, Dist. Kamrup

MOKUT GOGOI & CO.
Cost Accountant
Mem. No. 41585

101327000025	9	STEAM TURBINE ROTOR	101327000025		3000001071	4,78,28,193.00	2.219E+09	25.10.2022	2022-23	ST & Aux	25.10.2022	CAPEX	More the 3 years		NIL	
101311000032	9	COMP. CO. MODEL Z36-23/1/UMBOLDT WEDAG	101311000032		3000000978	7,01,100.00	2.219E+09	17.05.2022	2022-23	SPC	17.05.2022	CAPEX	More the 3 years		NIL	
101901000099	10	KIRLOSKER PUMP	101901000099		3000001073	8,21,491.82	2.219E+09	31.10.2022	2022-23	ST & Aux	31.10.2022	CAPEX	More the 3 years		NIL	
101302000177	11	PROPELLER SHAFT TRANSVERSE DRIVE	101302000177		3000000589	21,02,772.00	2.219E+09	22.08.2022	2022-23	SPC	22.08.2022	CAPEX	More the 3 years		NIL	
101302000177	12	ROTORK GEAR BOX RH SIDE	101302000177		3000000590	42,05,325.00	2.219E+09	23.11.2022	2022-23	SPC	23.11.2022	CAPEX	More the 3 years		NIL	
101302000177	13	ROTORK GEAR BOX LH SIDE	101302000177		3000000591	42,05,325.00	2.219E+09	23.11.2022	2022-23	SPC	23.11.2022	CAPEX	More the 3 years		NIL	
101302000177	14	TORQUE CONVERTER TWINDISC 4-SDE-3219-1	101302000177		3000001072	1,90,49,620.00	2.219E+09	31.01.2023	2022-23	GT	31.01.2023	CAPEX	More the 3 years		NIL	
101305000021	7	Head Cylinder - WAUKESHA 12 V275GL+	101305000021		3000000611	21,08,784.16	2.219E+09	10.08.2022	2022-23	GAS, SPC	10.08.2022	CAPEX	More the 3 years		GRAS Dt.18.4.2023	4500020057 Dt.10.4.2023
101327000025	5	3Ph-MOTOR IS:325 6POLE-1500RPM 75KW-2005	101327000025		3000001000	5,00,046.35	2.219E+09	17.08.2022	2022-23	ST	17.08.2022	CAPEX	More the 3 years		9515 Dt 4.11.2023	4500059051 Dt.4.11.2023
101305000177	8	FLAME DETECTOR 315A3708P001 (20FD)	101305000177		3000001069	18,76,336.73	2.219E+09	12.08.2022	2022-23	C&I	12.08.2022	CAPEX	More the 3 years		9741 Dt.24.11.2023	4500059052 Dt.24.11.2023
101302000177	10	50 MVA GT (BHEL)	101302000177		3000001074	5,25,10,000.00	2219026336 & 2219036301	17.05.2023	2022-23	PEM	17.05.2023	CAPEX	More the 3 years			4500020137 Dtd. 20/12/2023
					TOTAL	15,96,30,025.62										
					TOTAL	17,97,83,453.06										

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Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Tuensang

Cost Accountant Mem. No. 41585 DULUAN

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2023-24 (Till 31.03.2024)

Major Spares Capitalised -FY 2023-24

SL NO	ASSET DESCRIPTION	ID	MATFW CODE	SAP MATERIAL CODE	AMOUNT	SAP DOC NO	SAP ASSET VALUE DATE	Capitalised During the year	QTY. ISSUED/ TILZED TILL 31.03.2024	Division	COD	Reserve	Spares Life	MRN WITH DATE	MIN WITH DATE
MATERIALS UTALISED DURING THE YEAR															
1	REDUCTION GEAR LWT(SR 36 GROY)	101327000026		3000090352	22,90,000.00	2100094936	05.06.2023	2023-24		ST & Aux				9035 Dt.23.8.2023	4500020062 Dt.21.8.2023
2	Housing Assy Wastegate 2 in HD WAUKESHA	101305000023	6305901090240	3000000013	25,95,250.00					gbr			1 NO	9437 Dt.4.10.2023	4500000170 Dt.4.10.2023
4	Gas Compressor, 23 Inch Piston & Rod ass	101305000023		3000090571	36,89,716.00				1 No					11459 Dt.20.01.2024	4500011101 Dt.26.3.2024
5	50 MVA GT	101202000197			4458994.00									10185 Dt.26.11.2023	4500010337 Dt.20.12.2023
6	VERTICAL TURBINE PUMP (INTAKE)	101327000026		3000001697	14,75,000.00									10498 Dt.27.1.2024	4500010355 Dt.27.1.2024
7	Head Cylinder - WAUKESHA 12 V275GL+	101305000021		3000000011	21,20,704.16									9995 Dt.18.4.2023	4500020097 Dt.18.4.2023
8	3Ph-MOTOR IS:325 4POLE-1500RPM 75KW-2005	101327000026		3000001009	5,80,048.35									9515 Dt.4.11.2023	4500020063 Dt.4.11.2023
9	FLAME DETECTOR 315A270EP061 (SIFCI)	101202000177		3000001063	18,76,336.72									9741 Dt.24.11.2023	4500020083 Dt.24.11.2023
10	50 MVA GT (SHELL)	101202000177		3000001074	5,25,10,000.00										4500010197 dtd. 25/12/2023
				TOTAL	7,15,37,706.23										
MATERIALS NOT UTILISED DURING THE YEAR															
1	ACTUATOR,HEINZMANN GAS ENGINE-WAUKESHA-1	101305000023		3000000003	59,96,436.20	2319067456	12.06.2023	2023-24		GBS, SFC				Nil.	Nil.
2	ACTUATOR,HEINZMANN GAS ENGINE-WAUKESHA-1	101305000023		3000000003	1247029.02			2023-24		GBS, SFC				Nil.	Nil.
3	Module, Ignition Control (WCM), Gas Engine	101305000023		3000000445	670308.03			2023-24		GBS, SFC				Nil.	Nil.
4	Housing Assy Wastegate 2 in HD WAUKESHA	101305000023		3000000014	23,99,516.00					GBS				Nil.	Nil.
5	ACTUATOR,HEINZMANN GAS ENGINE-WAUKESHA-1	101305000023		3000000003	26,19,807.00									Nil.	Nil.
6	Gas Compressor, 23 Inch Piston & Rod ass	101305000023			43,009.27									Nil.	Nil.
7	Capital/Spareslot FY2023-24 GT				23,51,000.00									Nil.	Nil.
3	CHROMATOGRAPH-GAS ROSEMOUNT SPS	101305000023		3000001694	5,39,735.00									Nil.	Nil.
				TOTAL	1,61,27,350.47										
				TOTAL	8,76,65,056.70										

उप. महा प्रबन्धक (वै/प)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
एजीबीपी, नोकनी, बोकाजान
AGBP, NEEPCO, Bokajan

Asstt. Manger (F)
NEEPCO LTD AGBP
Rokuloni, Dist. Borgarh

MONUJ GOGOI & CO
Cost Accountant
Mem. No. 41585
GUWAHATI

2268

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 10498 **Reservation Date:** 27.01.2024 **Material Issue No.** 4930010598 **Material Issue Date:** 27.01.2024

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street: Bokuloni,

Street2 : Bokuloni Village,

City : DibrugarhDibrugarh,

PostCode : 786191,

Region : 18,

Country : IN

Cost Center/ Recv. Sto. Loc : 1510000115 - STEAM TURBINE&CONTROL/MUEL/MV

Issg. Str. Loc : A502 - CS SH2- EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	2433207594600	OIL: TURBINE IS:1012 VG46 SERVO PRIME-46	L	840.000	840.000	181.7	152,628	
2	3101502340139	AMMONIA/NH3 LIQUID ANHYDRATE AR	PAC	1.000	1.000	6,570	6,570	
3	3012302550000	SEALANT: HYLOMER COMPOUND	NO	5.000	5.000	734.2	3,671	
4	3101001300025D	AMMONIA LIQUOR or SOLUTION IS:299 26%	L	1000.000	1000.000	49.56	49,560	
5	3100020030000	ACID: HYDROCHLORIC ACID IS:265 30%	MT	70.000	70.000	7,249.97	507,497.9	
6	9005080500000	BUFFING WHEEL(MOP) D-100mm	NO	30.000	30.000	30.68	920.4	
7	9300030000050	BRUSH FLAT IS:384 PAINT & VARNISH 75mm	NO	7.000	7.000	43.24	302.68	
8	9300030000500	BRUSH FLAT IS:384 HY DUTY POLYPAINT 50mm	NO	8.000	7.000	34.81	228.67	
9	9300307500000	BRUSH: STEEL WIRE	NO	4.000	4.000	41.34	165.36	
10	4702014402000	HEX HD. SCREW WITH NUT - M & M12x70 GR	NO	6.000	6.000	12.8	76.8	
11	3000001687	[illegible]	NO	1.000	1.000	0	0	

Olgaeta Kr.Gogoi
Requisitioner

Signature of Receiver

Issuer

Assit Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

2023-24.
Sl. no. (6)

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

Dy. General Manager (E&M)
उप. महा प्रबंधक, O/o the Head of Plant
ए.ग.प.घ.के., बोकुलोनी
AGBP, NEEPCO, Bokuloni

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North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 10185 **Reservation Date:** 29.12.2023 **Material Issue No.** 4900018337 **Material Issue Date** 29.12.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh,
PostCode : 786991 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Sto. Loc: 1516000117 - POWER HOUSE AGBPP

Rng.Str. Loc: AB02 - CS SH2- EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	7190501016B000	RIPPLE SPRING BHEL GEN-6 AUX GENERATOR	NO	25.000	25.000	519.2	12,980	
2	7190501011110	CONTACT PIN 4343073019 00 GEN&AUX BHEL	NO	4.000	4.000	69,348.25	276,993	
3	7190501011150	CONTACT SOCKET TG0717503601 GEN&AUX BHEL	NO	2.000	2.000	57,631	115,262	
4	7190501028650	HEATSINK TYPE-I 2143083004-00 GEN&AUX	NO	1.000	1.000	75,673	75,673	
5	7190501028700	HEATSINK TYPE-II 2143083005-00 GEN&AUX	NO	1.000	1.000	75,673	75,673	
6	7190501016180	EARTHING BRUSH DESIGN A TG0710714074 GEN&	NO	8.000	8.000	11,876.75	95,014	
7	7190501016200	EARTHING BRUSH DESIGN B TG0710714120 GEN	NO	8.000	8.000	11,876.75	95,014	
8	7190501090800	BEARING RTD'S TGN078300746 GENERATOR&AUX	NO	2.000	2.000	27,258	54,516	
9	7190501014140	DE BRUSH HOLDER TG0712883043 GEN&AUX	NO	2.000	2.000	54,516	109032	
10	3000001014	50 MVA GT 1st filling 10% ext topup oil	KG	1.000	1.000	0	0	
11	7190501016100	BHEL/BL EXCITER DIODE NEGATIVE	NO	1.000	1.000	117,209.67	117,209.67	

BishavBenegahain
Requisitioner

Signature of Receiver

Issuer

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

2023-24
Sl. No (5)

उप. महा प्रबंधक (ई/म)
Dy. General Manager (E/M)
का. प्रभार पदाधि, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

MORIA GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

Page 1 of 1

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 11450 **Reservation Date:** 26.03.2024 **Material Issue No.** 4900011501 **Material Issue Date:** 26.03.2024

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street: Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
County : IN

Cost Center/ Recv. Sto. Loc: 1510000118 - GAS BOOSTER STATION AGBPP

Issg. St. Loc: ABDI - CS SH1-EM1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3000000571	Gas Compressor, 23 Inch Piston & Rod ass	NO	1.000	1.000	0	0	

RitulDutta
Requisitoner

Signature of Receiver

Issuer

2023 -24
SI. no. (4)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

MOHUJA GOGOI & CO. Cost Accountant Mem. No. 41585 DEBJARIA

Dy. General Manager (E/M)
AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 12377 **Reservation Date:** 31.05.2024 **Material Issue No.** 4900012240 **Material Issue Date:** 31.05.2024

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street: Bokuloni,

Street2 : Bokuloni Village,

City : Dibrugarh Dibrugarh,

PostCode : 786191,

Region : 18,

Country : IN

Cost Center/ Recv. Sto. Loc: 1510000119 - CONTROL & INSTRUMENTATION AGBPP

Iss. Str. Loc: A802 - CS SHQ- EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	6500050310067	P/GAUGE (1Kg/Sq.Cm/ 760mmHg/.150mm	NO	1.000	1.000	4,005.67	4,005.67	
2	5400000972416	BOSE/QUINT SPARES-CHROMATOGRAPH/PCBA CPU	NO	1.000	1.000	307,745.92	307,745.92	
3	900001694	CHROMATOGRAPH/4-GAS/BOSE/QUINT SPS/PCBA CPU	SET	1.000	1.000	0	0	
4	6309901031975	CONVERTER IP CONVERTER YT-940; 4/20MA	NO	2.000	2.000	18,555.69	37,111.38	
5	6317386212310	POSITIONER INVRS (ETP-031-0 ILP2100681	NO	2.000	2.000	20,927	41,854	
6	6305401103100	REGULATOR: AIR FILTER REGULATOR AR-4SWC	NO	2.000	2.000	4,608.91	9,217.82	
7	6500608207187	P/GAUGE(0-6Kg/Sq.Cm(0 -6000mmWC),150mm	NO	6.000	6.000	1,314.2	7,885.2	
8	6513100700080	IGNITION SPARK PLUG W FIXTURES	NO	1.000	1.000	335/933.5	335/933.5	
9	6310600022990	VALVE: ALMA ACTUATOR SA25A HRSG/ WHRB/STG	NO	1.000	1.000	213,816	213,816	
10	6300200503111	Velocity Sensor S48SC	NO	1.000	1.000	268,717.01	268,717.01	
11	6100900310235	EXTENSION CABLE 30M FOR VELOCITY SENSOR	NO	1.000	1.000	116,636.46	116,636.46	

ChidangaBarush
Requisitioner

Signature of Receiver

Issuer

2023-24
Sl. no (3)

Assft Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]arh

Dy. General Manager (E/M) Hd.
उप. महाप्र. प्रमुख, O/o the Head of Plant,
ए.जी.बी.पी., बोकुलोनी
AGBPP, NEEPCO, Bokuloni

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585

Page 1 of 1

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 9137 Reservation Date: 04.10.2023 Material Issue No. 4000003370 Material Issue Date: 04.10.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Sto. Loc : 5100000118 - GAS BOOSTER STATION AGBP

Issg. Str. Loc : AB01 - CS SH1: EMI

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req Qty	Issued Qty.	Price	Total	Remark
1	8331010089003	SEAT/REDUCER ASSY PRESSURE BY PASS 275CL+	NO	1.000	1.000	72,013.33	72,013.33	
2	3000000013	Bearing Assy Wastegate Shield WAASHA	NO	1.000	1.000	0	0	
3	7250101000010	GATES MAKE TIMING BELT POWERGRIP GT2-14MR	NO	1.000	1.000	47,366.49	47,366.49	
4	7250102000060	GASKET- OUTER HEAD,GSS,GAS COMP	NO	1.000	1.000	27,110.59	27,110.59	

MukutBuragohain
Requisitioner

Signature of Receiver

Issuer

2023-24
Sl. no (2)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]

उप. महा प्रबंधक (वि.सं.)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

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23 24

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 9005 Reservation Date: 23.09.2023 Material Issue No. 4900009002 Material Issue Date: 23.09.2023

Plant : 5400 - ASSAM GAS BASED POWER PLANT

Address : Street: Bokuloni ,
Street2 : Bokuloni Village ,
City: Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Sto. Loc : 1510000115 - STEAM TURBINE&CONTROL/AUXILIARY

Isng. Str. Loc : AB02 - CSSH2 EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3903840620201	WELDING ELECTRODE IVS 60013 2.5 mm	PAC	2.000	2.000	563.66	1,127.32	
2	8551045845010	BUSH TYPE FLEX COUPLING LOC 3	SET	1.000	1.000	4,267.21	4,267.21	
3	3000000102	REDUCTION GEAR UNIT(B# 36 GROUP)	NO	1.000	1.000	0	0	
4	2302010000214	FLANGE CPVC ASTM F439/ND 20 x Dia 25 SCH 80	NO	6.000	6.000	469.99	2,819.94	

Diganta Dr.Gogoi
Requisitioner

Signature of Receiver

Issuer

2023-24
Sl. No. 1

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

Dy. General Manager (E/M)
उप. महाप्र. (वि.), Dy. GM Head of Plant
ए.ग.बि.घ., बोकुलोनी, डीब्रूगढ़
AGBP, NEEPCO, Bokuloni

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

Page 1 of 1

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 10185 **Reservation Date:** 29.12.2023 **Material Issue No.** 4900010357 **Material Issue Date:** 29.12.2023

Plant : 3100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 785191,
Region : 18,
Country : IN

Cost Center/ Recv. Stn. Loc : 1510000117 - POWER HOUSE AGBPP

Issg. Stn. Loc: A002 - CS SHD- EM3

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	71085010558000	RIPPLE SPRING BRG. GEN & AUX. GENERATOR	NO	25.000	25.000	519.2	12,980	
2	71085010611110	CONTACT PIN 414303133010-00 GEN&AUX BHEL	NO	4.000	4.000	69,248.25	276,993	
3	71085010611150	CONTACT SOCKET 703717340004 GEN&AUX BHEL	NO	2.000	2.000	57,651	115,292	
4	71085010528850	HEAT SINK TYPE-I 214303031004-00 GEN&AUX	NO	1.000	1.000	75,673	75,673	
5	71085010528700	HEATSINK TYPE-III 214303031005-00 GEN&AUX	NO	1.000	1.000	75,673	75,673	
6	71085010516080	EARTHING BRUSH DESIGN A T0371071148/4 GEN&	NO	8.000	8.000	11,876.75	95,014	
7	71085010516300	EARTHING BRUSH DESIGN B T0371071412/0 GEN	NO	8.000	8.000	11,876.75	95,014	
8	71085010504000	BEARING RTD'S TG5070000746 GENERATOR&AUX	NO	2.000	2.000	27,258	54,516	
9	71085010514140	DSL BRUSH HOLDER TG3712883045 GEN&AUX	NO	2.000	2.000	54,516	109,032	
10	3000001074	50 MVA ST 10 Bl Fg 10% ester type oil	NO	1.000	1.000	0	0	
11	71085010504040	DSL ELEXCTER DIODE NEGATIVE	NO	1.000	1.000	117,209.97	117,209.97	

BishavBaragohain
Requisitoner

Signature of Receiver

Issuer

2022-23
81 no. (10)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]arh

Dy. General Manager (E/M)
O/o the Head of Plant
AGBPP, NEEPCO, Bokuloni

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

Page 1 of 1

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 3552 Reservation Date: 26.08.2022 Material Issue No. 4900083750 Material Issue Date: 26.08.2022

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Stn. Loc : 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Stn. Loc : A801 - CS SHI ENI

Work Order/ Description :

S.NO.	Material Code	Material Description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	32501004000010	VALVE DISCHRG MANIFOLD(FOR 16 CYL	NO	3.000	3.000	159,847.33	479,541.99	
2	8320002001600	ELEMENT,AIR FILTER GAS ENGINE-	NO	6.000	6.000	59,599.68	357,597.08	
3	8320002000010	PACKING FILTER GAS ENGINE-	NO	6.000	6.000	4,534.02	27,204.12	
4	8320003007300	SPARK PLUG,GAS ENGINE	NO	12.000	12.000	26,430.27	317,227.24	
5	8320010040040	KIT-REVISION VALVE REPAIR,GAS ENGINE	NO	12.000	12.000	52,551.04	630,612.48	
6	3000012200000	ORC 2.26	NO	1.000	1.000	572.33	572.33	
7	300000003	ACTUATOR,HEINZMANN,GAS ENGINE WOODWARD	NO	1.000	1.000	0	0	
8	8300002100000	PICKUP,RSM,MAGNETIC,GAS ENGINE	NO	1.000	1.000	39,647.00	39,647.00	
9	100000003	MODULE,DRAG,1614 PROBE,PM,GE,GAS ENGINE	NO	1.000	1.000	0	0	
10	7350100100350	BULLET,GBS,GAS COMP,16.25" CYLINDER	NO	1000.000	1000.000	619.50	619,500	
11	7350100400000	SPRING & WASHER,GAS COMP,16.25" CYLINDER	NO	1000.000	1000.000	261.84	261,840	

Mukut Baragohain
Requisitioner

Signature of Receiver

Issuer

2022-23.
Sl. no. (9)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

उप. महा प्रबंधक (वि/र)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, On the Head of Plant,
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

MONU GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

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North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 6240 Reservation Date: 25.02.2023 Material Issue No. 4900006376 Material Issue Date: 25.02.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Sto. Loc : 1510000118 - GAS BOOSTER STATION AGBPP

Issng. Str. Loc: AB02 - CS SHG- EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	2000000083	ACTUATOR,HYDRAMAT/GAS DYGHO 0065/ESHA/1	NO	1.000	1.000	0	0	

Mukutduragohain
Requisitioner

Signature of Receiver

Issuer

2022-23
Sl. no. (9)

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

Asstt. Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

Dy. General Manager (C/M)
उप. महाप्रबंधक (सी/एम)
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. : 9741 Reservation Date: 24.11.2023 Material Issue No. 4000001863 Material Issue Date: 24.11.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc : 5100000119 - CONTROL & INSTRUMENTATION AGBP

Issng. Sor. Loc : ABO1 - CS SHI - EMI

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3000001083	FLAME DETECTOR 215A27/00/P001 (2015)	NO	2.000	2.000	0	0	

ChidangaBaruah
Requisitioner

Signature of Receiver

Issuer

2022-23
81. no. (8)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

ACNUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

उप. महा प्रबंधक (वि/प)
Dy. General Manager (E/M)
कार्य. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नोकलोनी, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 4937 Reservation Date: 07.12.2022 Material Issue No. 4500085193 Material Issue Date: 07.12.2022

Plant : 5106 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City :Dibrugarh Dibrugarh,
PostCode : 786191,
Region : IN,
Country : IN

Cost Center/ Recv. Sto. Loc : 5510000023 - STATION FACILITY DIVISION

Issg. Stl. Loc : AB01 - CS SHD - EN1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	10160030000000	PLATE CHEQUERED IS3502 6.0mm	MT	2.000	2.000	107,999	215,998	
2	14172001018000	INSULATION TAPE IS:7809 19-20MM	NO	5.000	5.000	31.41	157.05	
3	69999916000000	SAW LEOPLOOST LIGHT	NO	21.000	21.000	655	13,755	
4	50110070071500	CLEANER RUST REMOVER BLUE/VIOLENE	L	1.000	1.000	469.09	469.09	
5	52100048500000	MARKIN CLOTH	M	33.000	33.000	24.67	814.11	
6	3000000877	SCROLL CONVEYOR ASSEMBLY- CENTRIFUGE	NO	1.000	1.000	0	0	
7	84162001046460	LOCK WASHER OF ITP NBEC/AA/55-11	NO	1.000	1.000	504.55	504.55	

Prabin Mahanta
Requisitioner

Signature of Receiver

Issuer

2022-23.
St. no. (€)

Staff Manager (P)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

MONU GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

उप. महा प्रबंधक (प्रि.प्र.)
Dy. General Manager (P&M)
मु. कैटस पावर., जि.प्र. Head of Plant
ब.ग.बि.घ., बोकुलनी, दीफूगढ़ ।
AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 6399 Reservation Date: 06.03.2023 Material Issue No. 4000001476 Material Issue Date: 06.03.2023

Plant : 5100 ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc : 1510000115 - STEAM TURBINE&CONTROL/AUXILIARY

Issg.Str.Loc : AB02 - CS SHQ- EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3101800259990	SODIUM CHLORIDE (LIKE 99.0%	KG	2400.000	2400.000	9.32	22,368	
2	8462600000200	SMALL ANGLE GRINDER 220-250VAC 50Hz	NO	2.000	2.000	4,084	8,168	
3	8414801070	BLOWER(M/S CMH 100/MAN/C FIRE WITH MOTOR	NO	1.000	1.000	182,900	182,900	
4	3902180900504	FLANGE CPVC ASTM438D2846 DN 50 SCH 80	NO	1.000	1.000	647.05	647.05	
5	3917400000316	PIPE CPVC ASTM F441 NPS 25 SCH 80	M	5.000	5.000	469.99	2,349.95	
6	3917400000314	FLANGE CPVC ASTM F439 D2846 DN 25 SCH 80	NO	3.000	3.000	469.99	1,409.97	
7	3917400000314	BEND CPVC 6 DN 25 SCH 80	NO	1.000	1.000	194.99	194.99	
8	8481805285000100	PILOT OPERATED RELIEF VALVE OF 20"	NO	1.000	1.000	6,960	6,960	
9	2000001679	6.6 KV, 550 KW Vertical CW Pump Motor	NO	1.000	1.000	0	0	
10	3917400000316	PIPE CPVC ASTM F441 NPS 25 SCH 80	M	15.000	15.000	469.99	7,049.85	

Diganta Kr.Gogoi
Requisitioner

Signature of Receiver

Issuer

2022-23
Sl. No. 6

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

उप महा प्रबंधक (वि/प)
Dy. General Manager (E/M)
यू.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Cost Accountant Mem. No. 41585 DULIAJAN

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North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. : 9581 Reservation Date: 04.11.2023 Material Issue No. 4000005551 Material Issue Date: 04.11.2023

Plant : 3100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Stn. Loc : 3100000117 POWER HOUSE AGBPP

Issg. Str. Loc: ABDI - CS SH1 EMI

Work Order/ Description :

S.NO.	Material Code	Material Description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3210004850000	MARKIN CLOTH	M	120.000	120.000	24.07	2,890.4	
2	5050000807780	BEARING 6307 2ZR	NO	4.000	4.000	531	2,124	
3	5050000809780	BEARING 6309 2ZR	NO	5.000	3.000	1,824.24	5,472.7	
4	5050000206745	BEARING 6206 ZZ	NO	6.000	6.000	278.48	1,670.88	
5	5050000304745	BEARING 6310 ZZ	NO	2.000	0	0	0	
6	3000019009	3Ph MOTOR 0.37 KW(0.5 HP) 1500RPM 2560/ 2805	NO	1.000	1.000	0	0	
7	5050000304745	BEARING 6304 ZZ	NO	2.000	2.000	259	518	
8	3470200 3000	OIL 6 SERVO ELECTRA (TRANSFORMER OIL)	L	420.000	420.000	114.22	47,972.4	
9	6511022A010000	HRC FUSE LINK 63A VDE	NO	9.000	9.000	153.59	1,382.31	
10	6511000070024	SWITCH DIS CONNECTOR FUSE UNIT 400A FN	NO	1.000	1.000	8,754.62	8,754.62	
11	3100009000000	CHEMICAL REAGENT: SILICA GEL	KG	25.000	25.000	134.49	3,362.25	

Requisitioner

Signature of Receiver

Issuer

2022-23
81.110 (5)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

MONUSHOGOI & CO. Cost Accountant Mem. No. 41585 GUWAHATI

Dy. General Manager (Elect.)

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North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 4633 **Reservation Date:** 17.11.2022 **Material Issue No.** 4910001786 **Material Issue Date:** 17.11.2022

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Sts. Loc : 1510001118 - GAS BOOSTER STATION AGBPP

Isng. Sts. Loc : AB02 - CS SH2- EN2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req Qty	Issued Qty.	Price	Total	Remark
1	3000000417	Actuator, 2080, Gas Engine	NO	1.000	1.000	0	0	

MukulBuragohain
Requisitioner

Signature of Receiver

Issuer

2022-23.
81. No. (4)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

SUJIT GOGOI & CO. Cost Accountant Mem. No. 41585 GUWAHATI

Dr. General Manager (E/M)
Dr. सं.प्र.प्र., On the Head of Plant
ए.जी.बी.पी., बोकुलोनी / AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 4915 **Reservation Date:** 06.12.2022 **Material Issue No.** 4900006183 **Material Issue Date:** 06.12.2022

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Sto. Loc: 1510000118 - GAS BOOSTER STATION AGBPP

Isng. Str. Loc: AB01 - CS SH1- EM1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3423200192200	Serve Prem C 220 gude lobe oil	L	420.000	420.000	176.99	74,335.8	
2	3423200188800	OIL ENGINE OIL SHELL MYSELLA S4N 40	L	418.000	418.000	344.87	144,155.66	
3	3307307020000	SEAL TAPE PTFE UNSINTERED (L-14643 20mm	ROL	1.000	1.000	39.59	39.59	
4	9999988011000	HACKSAW BLADE BPCO	NO	3.000	3.000	16.89	50.67	
5	7258100200000	GASKET-OUTER HEAD GBS GAS COMP	NO	1.000	1.000	27,110.00	27,110.00	

6 30000051/ 23" Piston Rod Assy. 1.00 1.00

MukutBaragohain
Requisitioner

Signature of Receiver

Issuer

2022-23.
Sl. No. (3)

MONU GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

Asstt Manager (T)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

Dy. General Manager (E/M)
उप. महा प्रबंधक, (वि/मा)
उ.प्र.कें.प्र., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 6752 **Reservation Date:** 30.03.2023 **Material Issue No.** 4900006821 **Material Issue Date:** 30.03.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Sto. Loc : 1510000118 - GAS BOOSTER STATION AGBPP

Issg.Str.Loc: A801 - CS SHI- EMI

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3720717298X004	WEBSLING 1-L 3LYR WITH EYES WxL-50x(W) 2T	NO	2.000	2.000	2,000	4,000	
2	3720717298X013	WEBSLING 1L POLYSTR 3LYR Wxl-50mmx(W) 2T	NO	2.000	2.000	2,000	4,000	
3	8309801840040	KIT-ADMISSION VALVE REPAIR GAS ENGINE	NO	12.000	12.000	57,561.84	690732.48	
4	3003064588000	COPPER BRUSH	NO	2.000	2.000	203.75	407.5	
5	3003000894	ACTUATOR ASM, GAS REGULATING GAS ENGINE	NO	1.000	1.000	0	0	

MukutBuragohain
Requisitioner

Signature of Receiver

Issuer

2022-23.
Sl. no (2)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

MONUK GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

Dy. General Manager (E&M)
AGBPP, NEEPCO

Page 1 of 1

22-23

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 6995 **Reservation Date** 18.04.2023 **Material Issue No.** 4900007057 **Material Issue Date** 18.04.2023

Plant : 3100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Sto. Loc : 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Str. Loc : A80I - CS SHT- EMI

Work Order/ Description :

S.NO.	Material Code	Material Description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	8309010040680	KIT-ADMISSION VALVE KIT W/O GAS ENGINE	NO	12.000	12.000	105,122.08	1,261,464.96	
2	[illegible]	[illegible]	NO	6.000	6.000	59,595.68	357,574.08	
3	8309002060610	PADPRE-FILTER GAS ENGINE-	NO	6.000	6.000	4,534.02	27,204.12	
4	8309002072650	SEALS KIT,FW80 GAS ENGINE-	NO	1.000	1.000	33,452.21	33,452.21	
5	308000011	Head Cylinder- W6L08516 11 V27/30 L1	NO	1.000	1.000	0	0	
6	8309002072690	SINGLE HEAD REPAIR KIT GAS ENGINE-	SET	1.000	1.000	50,878.55	50,878.55	
7	8162360457100	LUBE PUMP 80/35 FOR COMPRESSOR 6-HDS 4-2	NO	2.000	2.000	37,805.72	75,611.44	
8	8309002020690	FILETT,LUBE OIL GAS ENGINE-	NO	6.000	6.000	5,019.72	30,118.32	

MukutBuragohain
Requisitioner

Signature of Receiver

Issuer

2022-23.
Sl. no (1)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

उप. महा प्रबंधक (वि.व)
Dy. General Manager (E/M)
का. प्रभार पर, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी, डिब्रूगढ़-II
AGBP, NEEPCO, Bokuloni

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North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 2020 **Reservation Date:** 26.03.2022 **Material Issue No.** 4900032087 **Material Issue Date:** 26.03.2022

Plant : 5500 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786101,
Region : 18,
Country : IN

Cost Center/ Recv. Ste. Loc : 1551000015 - STEAM TURBINE&CONTROL/AUXILIARY

Isng. Str. Loc : AB02 - CS SH2- EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3000000434	STEAM STRAINER,STG 10 VAV, ESV	EA	1.000	1.000	0	0	
2	730300400000050	SEAL RING,STG	NO	1.000	1.000	171,336	171,336	
3	900100000000	CUTTING/GRINDING WHEEL IS:2321 D-100mm	NO	50.000	50.000	41.82	2,091	
4	700900300000030	STRONG ACID CATION RESIN (T-42H+)-W	L	3775.000	3775.000	146.56	553,264	
5	3401300000000	DPT. CLEANER	NO	25.000	25.000	166.36	4,159	
6	2351302300360	DIA/HBASM. VALVE,EBO/PN16 50mm	NO	2.000	2.000	7,229.85	14,459.7	
7	4000000085	GATE VALVE, HO FAS CLASS 1500 25mm	NO	1.000	1.000	0	0	
8	271102410068020	ELBOW LR AS A234 Gr.WP22 2"BW SCH-80	NO	2.000	0	0	0	
9	4000000082	GATE VALVE, HO SS CLASS-800 25(1")	NO	1.000	1.000	0	0	

Diganta Kr.Gogoi
Requisitioner

Signature of Receiver

Issuer

2021-22
Sl. no. (6)

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

उप. महा प्रबंधक (ई/मा)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 367 **Reservation Date:** 02.03.2021 **Material Issue No.** 4900000815 **Material Issue Date:** 02.03.2021

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Sto. Loc : 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Str. Loc : ABDI - CS SHI - EMI

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	2250010200000	PISTON ASSY GB5/GAS COMP	NO	1.000	1.000	1	1	
2	4309010000000	ROCKER ARM TEMP,M32H -ENGINE 12V 275GLP	NO	1.000	1.000	17,856.93	17,856.93	
3	3210040300000	MARKIN CLOTH	M	36.000	36.000	24.67	888.12	

MukutBuragohain
Requisitioner

Signature of Receiver

Issuer

2021-22
Sl. No (5)

Asstt Manager (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

Dy. General Manager (E&I)
O/o the Head of Plant
AGBPP, NEEPCO, Bokuloni

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North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 2046 Reservation Date: 28.03.2022 Material Issue No. 4000001103 Material Issue Date: 28.03.2022

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Sto. Loc : 1518000118 - GAS BOOSTER STATION AGBPP

Issg. Sto. Loc : AB01 - C5 SHI-EMI

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	10000085?1	Gas Compressor, 28inch Piston & Rod ass.	NO	1.000	1.000	0	0	

MukutBuragohain
Requisitioner

Signature of Receiver

Issuer

2021-22
Sl. No (5)

MUKUL GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

अ. महा प्रबंधक (ई/एम)
Dy. General Manager (E&M)
का. प्रभार प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 1719 **Reservation Date:** 23.02.2022 **Material Issue No.** 4900001823 **Material Issue Date:** 23.02.2022

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Sto. Loc : 1510000117 - POWERHOUSE AGBPP

Iwng. Str. Loc : AB01 - CS SHI- EMI

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3000330551	ACB 3P 6 CB 2000V 40 KA Complete set	SET	6.000	6.000	0	0	
2	5065006004780	BEARING 6204 2ZR	NO	2.000	2.000	188.25	376.5	
3	5065006009780	BEARING 6309 2ZR	NO	1.000	1.000	1,034.24	1,034.24	
4	6309906931160	TIMKEN 413WC 1-30 SEC EN 2000	NO	2.000	2.000	4263.14	8,526.28	

BishavBaragohain
Requisitioner

Signature of Receiver

Issuer

2021-22.
Sl. no. (4)

Asstt Manager (Ir)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

Dy. General Manager (E/M)
उप. महाप्र. (वि.रख.)
उ.पू.वि.नि., बोकुलोनी, डिब्रुगढ़
AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 1938 Reservation Date: 19.01.2022 Material Issue No. 4900003090 Material Issue Date: 26.03.2022

Plant : SIGD ASSAM GAS BASED POWER PLANT

Address : Street: Bokuloni ,

Street2 : Bokuloni Village ,

City : Dhemaji Dibrugarh ,

PostCode : 786184 ,

Region : IN ,

Country : IN

Cost Center/ Recv. Ste. Loc : 1310000116 GAS BOOSTER STATION AGBPP

Issg. Str. Loc : AB01 CS SHS- EMI

Work Order/ Description :

S.NO.	Material Code	Materialdescription	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	8509001000340	THERMOSTAT 100 DEGF 1/2V 2"SGL+	NO	4.000	4.000	4933.58	19,734.32	
2	8310001000160	GASKET OIL THERMOSTAT DOOR 12V 2"SGL+	NO	1.000	1.000	13,643.94	13,643.94	
3	3000000487	Actuator, 2300, Gas Engine	NO	1.000	1.000	0	0	
4	8309001000460	VALVE PRESSURE RELIEF 285/90A-2"SGL+	NO	1.000	1.000	93,843.74	93,843.74	
5	7200100200000	GASKET OUTER HEAD/CAS GAS COMP	NO	1.000	1.000	27,110.59	27,110.59	

Mukulkuragohain
Requisitioner

Signature of Receiver

Issuer

2021-22.
Sl. no. (3)

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

Dy. General Manager (E&M) i/c
उ. प्र. (वि. एवं यां.), Cdo the Head of Plant
ए.जी.बी.पी., बोकुलोनी, डीब्रुगढ़
AGBP, NEEPCO, Bokuloni

Page 1 of 1

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 37 **Reservation Date** 10.03.2021 **Material Issue No.** 4900000053 **Material Issue Date** 10.03.2021

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Sto. Loc: 1510000118 - GAS BOOSTER STATION AGBPP

Issg.Str.Loc: AB01 - CS SH1- EMI

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	5900002004801 0	MODULE-DRAGON PWT(PW-D)GAS ENGINE-	NO	1.000	1.000	587,672.32	587,672.32	

MukutBuragohain
Requisitioner

Signature of Receiver

Issuer

2021-22
Sl. no (2)

Asst Manager (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

MONU SOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

उप. महा प्रबंधक (ई/मे)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Page 1 of 1

21-22-(Sl.no. 1)

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 117 **Reservation Date:** 24.05.2021 **Material Issue No.** 4900030091 **Material Issue Date:** 13.06.2021

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Ste. Loc : 5100000018 - GAS BOOSTER STATION AGBPP

Issng. Str. Loc: AB01 - CS SHT- EMT

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	3000000003	ACTUATOR,HEINZMANN GAS ENGINE WAUXESHA-I	NO	1.000	1.000	0	0	

MukutBaragohain
Requisitioner

Signature of Receiver

Issuer

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dibrugarh

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41515
DULIAJAN

उप. महा प्रबंधक (ईएम)
Dy. General Manager (EM)
कार्य प्रभारी मुख्य, On the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

Page 1 of 1

m3810r3 — NEEPCO Ltd. — AGBPP — PAGE : 1 of1

DATE : 27/09/2024

MATERIAL ISSUE NOTE

T C CODES — INDIGENCUS 31 01 | IMPORTED 32 02 | DEPARTMENT USE 33 03 | ISSUE ON LOAN 34 04 | ISSUE FOR SALE DISPOSAL 35 05 | LOI/AGREEMENT 36 06 | COST RECOVERY BASIS-NORMAL 37 07 | COST RECOVERY BASIS-DOUBLE 38 08 | ISSUE FREE OF COST TO 39 09 | CONTRACTORS/FABRICATORS 40 10 | WRITE OFF FOR DAMAGES | ADJUSTMENT DUE TO | WRONG CODE GIVEN IN GRN | ADJUSTMENT BY AUDITORS | STOCK VERIFIERS

REMARKS | ISSUE STORE:MMG | COST CENTRE:(1020)GAS BOOSTER STATION | CONTRACTOR: | WORK DETAILS: | AGREEMENT NO. DATE: | INDENTING DEPT.:GBS | ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0271	20190081	18.02.2020	20190590	20.02.2020				1	1000

2020-21
Sl. no. (18)

SL	MATL.CODE	MATERIAL DESCRIPTION	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	P&L BALANCE	GRN No	GRN DATE	SUPP. PART	UM
1	3719000581	COIL,IGNITION W/LEAD	1.000	1.000	Rs48,009.00	Rs48,009.00	8	3.000	N.Stk	10.000	10180082	26/07/2018	69957	NO
2	3719000059	EXTENSION,ASH,SPARK PLUG(2750L+)	1.000	1.000	Rs7,289.96	Rs7,289.96	5	23.000	N.Stk	23.000	10190027	24/09/2019	A296048K	NO
3	3700020617	PISTON&ROD	1.000	1.000	Rs1.00	Rs1.00	7	0.000	N.Stk	1.000	10190036	07/06/2019	MEJEHA1621 G1	NO
4	3700020671	GASKET	4.000	4.000	Rs1,419.86	Rs6,679.43	7	1.000	N.Stk	1.000	10160164	10/01/2019	W139621A	NO
5	3719000004	WAUKESHA MAKE SPARE PLUG	12.000	12.000	Rs21,003.88	Rs2,52,046.50	26	36.000	N.Stk	24.000	10190073	04/09/2019	69919D	NO
6	3701000016	GAS ENGINE,Exit-Admission Valve Repair	12.000	12.000	Rs39,487.40	Rs4,73,848.81	64	13.000	N.Stk	24.000	10190073	04/09/2019	21166SD	NO

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

Asstt Manager (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]

MONUJ CHETIA & CO. Cost Accountant Mem. No. 41585 DULIAJAN

Dy. General Manager (E/M)
कृ. संयंत्र प्रमुख, O/o the Head of Plant
इ.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

~293~

m3010r2 NEEPCO Ltd. PAGE : 1 of1
DATE : 16/08/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#6
ISSUE STORE:MAW
COST CENTRE:(3101)ST & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GT&AUX DIVN
ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	S/A	PROJECT CODE
31	10	0261	20200100	20.01.2021	20200522	22.01.2021				1	1000

2020-21
Sl. No. 17

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	SBL BALANCE	GRN No	GRN DATE
1 3606003141 GASKET,Gasket MSW size 1" class 150									NO
3.000	3.000	Rs1,581.43	Rs1,044.29	5	4.000	N.Stk	4.000	10200106	03/11/2020
2 36020300113 CAP & LINER ASSOT.-COMBUSTION,LINEAR ASSY COMB(FGMA-35111)(G-25)								35111017/8	NO
								99E0116G01	
								3	
2.000	2.000	Rs.50	Rs1.30	7	0.000	N.Stk	0.000	10200036	07/07/2020
3 36020300223 CAP & LINER ASSOT.-COMBUSTION,LINEAR ASSY COMB(G-26)								35111033/8	NO
								99E0116G01	
								4	
3.000	3.000	Rs10,56,336.00	Rs31,69,008.00	3	0.000	N.Stk	0.000	10200036	07/07/2020
4 36020300043 CAP & LINER ASSOT.-COMBUSTION,COMB LINEAR ASSY(G-24)								35111001/8	NO
								99E0116G01	
								2	
4.000	4.000	Rs.25	Rs1.00	7	0.000	N.Stk	0.000	10200036	07/07/2020
5 36040000119 GT ENHAUST FRAME & PLENUM ASSY.,GASKET CERAMIC FIBRE (GT99511000011)								HVGT971158	MR
								2186/35904	
								336	
20.000	20.000	Rs1,590.90	Rs31,978.00	8	20.000	N.Stk	20.000	10200106	03/11/2020
6 36050302O9 COOLING & SEALING,GASKET MSW SIZE 150(WITH INNER RING)								35507189	NO
1.000	1.000	Rs1,602.38	Rs1,602.38	6	12.000	N.Stk	12.000	10100037	03/06/2019

Asstt. Manager (F)
NEEPCO LTD. AGBPS
Kuloni, Dist. [illegible]

Cost Accountant Mem. No. 41585
MONUJ GOYAL & CO.

Dy. General Manager (E/M)
Actg. the Head of Plant
A.G.B.P., Kuloni, Bokuloni
AGBP, NEEPCO, Bokuloni

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7	3604010729 FRAME ASSY.EXHAUST/CAP SCREW SOCKET HEAD M10X20									35904317 MO
	1.000	1.000	Rs1,028.34	Rs1,028.34	3	28.000	N.Stk	28.000	10120230	02/03/2013
8	3602010149 COMBUSTION CHAMBER ARRGT.GASKET(FUEL NOZZLE)									HY35100042 MO .4001/3510 8043
	10.000	10.000	Rs1,307.40	Rs13,074.00	18	0.000	N.Stk	0.000	10200106	03/11/2020
9	3605010111 HOSE FLEXIBLE METAL									336A9286E0 MO 61
	5.000	5.000	Rs43,898.60	Rs2,19,493.00	2	0.000	N.Stk	0.000	10120230	02/03/2013
10	3609031123 SS SHIM SHEET(304 GRADE),THICKNESS=0.5MM									SH
	2.000	2.000	Rs1,969.00	Rs3,938.00	4	0.000	N.Stk	0.000	10130106	02/09/2013

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

Asstt Manager (F)
NEEPCO LTD AGBPS
Bokuloni, Dist.Golaghat

MONUJ GOGOI & CO.
Cost Accountant
Mem No. 31585

Dy. General Manager (E&M)
O/o the Head of Plant
AGBP, NEEPCO, Bokuloni

m3010r2 — NEEPCO Ltd. — AGBPP — PAGE : 1 of1

DATE : 16/08/2024

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS | ISSUE STORE:MAW | ISSUE AUTHORISED BY

COST CENTRE:(1020)GAS BOOSTER STATION

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GBS

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.S. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0271	20200080	19.03.2021	20200693	22.03.2021				1	1003

2020-21
Sl.no (16)

Sl	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3719001335	HOUSING ASSY MASTERGATE,3 IN R.B											A295078K	NO
					1.000	1.000	Rs10,17,330.33	Rs10,17,330.31	7	2.000	N.Stk	2.000	10200196 23/02/2021	
2	3719001706	SCREW HEX HEAD,M12X35MM											296122	NO
					4.000	4.000	Rs6,027.83	Rs24,111.33	4	20.000	N.Stk	20.000	10200200 25/02/2021	
3	3719001654	CONNECTOR TURBINE INLET,LOWER,R.B											2962640	NO
					1.000	1.000	Rs1,34,166.00	Rs1,34,166.00	2	0.000	N.Stk	0.000	10200066 14/09/2020	
4	3719001672	GASKET,SPIRAL											2943931	NO
					1.000	1.000	Rs4,542.96	Rs4,542.96	5	24.000	N.Stk	24.000	10200066 14/09/2020	
5	3719000129	GASKET,SPRIAL											2943931	NO
					2.000	2.000	Rs3,531.90	Rs7,063.80	0	8.000	N.Stk	6.000	10160153 05/01/2017	
6	3719001681	SCREW HEX HEAD,M12											295869	NO
					2.000	2.000	Rs427.00	Rs854.00	3	6.000	N.Stk	6.000	10200066 14/09/2020	
7	3719001690	NUT,HEX,M12											296425	NO
					2.000	2.000	Rs2,294.00	Rs4,588.00	3	6.000	N.Stk	6.000	10200066 14/09/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F) NEEPCO LTD AGBPS Kahilipara, Dist Kamrup

Dy. General Manager (E/M) उप. मंडल प्रबंधक, O/o the Head of plant ए.जी.बी.पी., नीपको, बोकाजान NEEPCO, Bokajan

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULAJAN

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m3810r2
DATE : 16/03/2020

NEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS / FOR	ISSUE STORE:MSW,AGBP
REPLACEMENT OF BOLT	COST CENTRE:(3102)ST & AUXILIARY
ACID	CONTRACTOR:
STORAGE	
TANK(HCL).	WORK DETAILS:
	AGREEMENT NO. DATE:
	INDENTING DEPT.:ST&AUX DIVN

ISSUE AUTHORISED BY

2020-21
Sl.no.15

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	S/ h	PROJECT CODE
31	10	0260	20200089	20.10.2020	20200319	21.10.2020				1	1000

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE	
1	4216020021 BULK ACID STORAGE TANK,MOC:MSRL, SIZE: 2600 DIAX3000 LGS,CAP:15 CUB.MTR.WITH LEV.GAUGE&PUMP ABSORBER									ST
1.000	1.000	Rs2,68,169.33	Rs2,68,169.34	7	0.000	N.Stk	0.000	10200098	16/10/2020	NO
2	4256000601 WIRE BRUSH									
4.000	4.000	Rs35.36	Rs141.45	33	18.000	N.Stk	10.000	10190168	22/01/2020	
3	4256000920 EMERY CLOTH 80 GRADE							SALIMER ABRASIVE		NO
25.000	25.000	Rs19.48	Rs487.00	35	25.000	N.Stk	25.000	10190176	03/03/2020	
4	4256000939 EMERY CLOTH 100 GRADE							SALIMER ABRASIVE		NO
25.000	25.000	Rs19.48	Rs487.00	19	50.000	N.Stk	25.000	10190176	03/03/2020	
5	4256003545 GI BOLT (FULL THREAD) & NUT,M12X65									NO
30.000	30.000	Rs23.48	Rs704.40	7	170.000	N.Stk	0.000	10190125	02/12/2019	

SIGNATURE

ISSUED BY STORE KEEPER
ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

NEEPCO LTD AGBPS
Bokuloni, Dist

MONUJ GOGOI & CO.
Cost Accountants
Mem. No. 41585
GUWAHATI

AGBP,NEEPCO,Rongnom

297

m3810r2
DATE : 16/08/2024

NEEPCO Ltd.
AGBPS

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS

ISSUE STORE:MAW

COST CENTRE:(1020)GAS BOOSTER STATION

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.R. No.	M.I.R. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0271	20200032	30.09.2020	10200292	09.10.2020				1	1000

2020-21
Sl. No. 13, 14

Sl	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Blk LG	CARD BALANCE	St/W.St	PSL BALANCE	GRN No	GRN DATE
1 3719000604 ACTUATOR,HEINEMANN								296515	NO
1.000	1.000	Rs22,61,825.00	Rs22,61,825.00	4	0.000	N.Stk	1.000	10200087	09/10/2020
2 3719001821 AIR STARTAR MOTOR TDI								293435L	NO
1.000	1.000	Rs6,89,845.00	Rs6,89,845.00	2	0.000	N.Stk	0.000	10200090	09/10/2020

SIGNATURE

ISSUED BY STORE KEEPER
ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Tuloni, Dist. [illegible]arh

MONOJ GOGOI & CO
Cost Accountant
Mem.No. 41585
DHEMAJI

उप. मु/ प्रबंधक (वि/यां)
Dy. General Manager (E&M)
कृते संयंत्र प्रमुख, Q/o the Head of Plant
ए.जी.बी.पी., तेलोनी, धेमाजी
AGBP, NEEPCO, Tuloni

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m9810r2 NEEPCO Ltd.
DATE : 16/08/2024 AGBPP PAGE : 1 of1

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT DSE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: CB

ISSUE STORE:
COST CENTRE:(3013)CONTROL & INSTRUMENTATION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0267	20200028	30.01.2021	20200591	30.01.2021			1		1000

2020-21
81.430 (12)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	BAL BALANCE	GRN No	GRN DATE
1	3811120172	Limit Switch 2 NO+2NC,X1000 GSA (ROTORK)							NO
4.000	4.000	Rs4,244.75	Rs16,979.00	8	0.000	N.Stk	0.000	10150157	15/10/2015
2	3801060057	Flame Detector (2SFD),Miscellaneous.							NO
1.000	1.000	Rs.50	Rs.50	7	1.000	N.Stk	1.000	10200157	03/11/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MAILS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Udalguri

MONOJ GOGOI & CO. Cost Accountant Mem. No. 41587 GUWAHATI

Dy. General Manager (E/M)
उप महा प्रबंधक (वि./य)
ए.जी.बी.पी., बोकुलोनी
AGBPP, NEEPCO, Bokuloni

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m3810r2 NEEPCO Ltd.
DATE : 30/08/2024 AGBPP PAGE : 1 of1

T C CODES INDIGENCUS IMPORTED /------>

DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

MATERIAL ISSUE NOTE

REMARKS | ISSUE STORE:MAN
COST CENTRE:(3010)STATION FACILITY DIVISION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:SF DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/ A	PROJECT CODE
31	10	0264	20200059	14.12.2020	20200441	14.12.2020				1	1001

2020-21
Sl. no. (11)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1 3521000025 DIVERTER DAMPER ASM BANGIEN FAN & MOTOR ASSY									NO
1.000	1.000	Rs7,37,885.00	Rs7,37,885.00	6	0.000	N.Stk	0.000	10200111	05/11/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dhemaji

MONOJ GOGOI & CO. Cost Accountant Mem. No. 41585 DIBRUGARH

Dy. General Manager (E/M)
On the head of Plant
AGBPP, NEEPCO, Bokuloni

~300~

mm01cr2 NEEPCO Ltd. PAGE : 1 of1
DATE : 30/08/2020 AGSPP

MATERIAL ISSUE NOTE

T C CODE	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS | ISSUE STORE:MAW
COST CENTRE:(1020)GAS BOOSTER STATION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQUISITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	S/ A	PROJECT CODE
31	10	0271	20200026	22.08.2020	20200266	22.08.2020				1	1000

Sl.No. 2020-21
Sl.No (9), (10)

Sl	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/S.St	PSL BALANCE	GRN No	GRN DATE
1	3719001706	SCREW HEX HEAD,M12X35MM			8.000	8.000	Rs5,745.62	Rs45,965.00	2	0.000	N.Stk	20.000	296422 NO 10200066	14/09/2020
2	3719001672	GASKET,SPIRAL			2.000	2.000	Rs4,163.00	Rs8,326.00	2	2.000	N.Stk	24.000	2940937 NO 10200066	14/09/2020
3	3719000129	GASKET,SPRIAL			2.000	2.000	Rs3,531.94	Rs7,063.88	5	14.000	N.Stk	6.000	294093L NO 10180013	04/08/2016
4	3719001344	HOUSING ASSY WASTEGATE,3 IN 1.5			1.000	1.000	Rs9,43,443.00	Rs9,43,443.00	4	0.000	N.Stk	2.000	A296078K NO 10200066	14/09/2020
5	3719001335	HOUSING ASSY WASTEGATE,3 IN 8.8			1.000	1.000	Rs9,43,443.00	Rs9,43,443.00	4	0.000	N.Stk	2.000	A296078E NO 10200066	14/09/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Chirang

MONU GOGOI & CO. Cost Accountant Mem. No. 41565 GUWAHATI

Dy. General Manager (E/M)
उप. महा प्रबंधक, प्रभारी
ए.जी.बी.पी., बोकुलोनी
AGBPP, NEEPCO, Bokuloni

~301~

m3810r2
DATE : 16/08/2024

NEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS | ISSUE STORE:MAIN
COST CENTRE:(1020)GAS BOOSTER STATION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0171	20200024	31.08.2020	26200237	31.08.2020				1	1000

2020-21
81. MD (7)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Loc	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3717000105	COMPRESSOR WHEEL						25000	NO
1.000	1.000	Rs22,35,127.00	Rs22,35,127.00	2	0.000	N.Stk	0.000	10200045	27/07/2020

SIGNATURE

ISSUED BY STORE KEEPER
ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Udalguri

MONUJ GOGOI & CO
Cost Accountant
Mem. No. 41585
GUWAHATI

उप महा प्रबन्धक (वि/व)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, C/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP,NEEPCO, Bokuloni

m3810r2 — NEEPCO Ltd. — PAGE : 1 of1

DATE : 16/08/2024 — AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/TARRIGATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#6

ISSUE STORE:MMH

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

2020-21
Sl. No (6)

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0161	20000083	02.12.2020	20200415	02.12.2020				1	1000

SL	MAIL.CODE	MATERIAL DESCRIPTION	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	SUPP. PART	GRN No	GRN DATE	GRN
1	3601050018	GUIDE VANE VARIABLE/SPRING	32.000	32.000	Rs486.50	Rs15,568.00	7	0.000	N.Stk	0.000		10200002	24/04/2020	35106045 NO
2	3601050036	GUIDE VANE VARIABLE/BUSHING	64.000	64.000	Rs179.36	Rs11,479.00	8	0.000	N.Stk	0.000		10200002	24/04/2020	35106047 NO
3	3601050027	GUIDE VANE VARIABLE/BUSHING CHEMELLOY	64.000	64.000	Rs1,403.48	Rs89,823.00	8	0.000	N.Stk	0.000		10200002	24/04/2020	35106052 NO
4	3601050249	GUIDE VANE VARIABLE/TUBING	64.000	64.000	Rs723.05	Rs46,275.00	6	0.000	N.Stk	0.000		10200002	24/04/2020	35106048/2 NO 15A4468F00 9
5	3601050054	GUIDE VANE VARIABLE/WASHER THRUST	64.000	64.000	Rs124.44	Rs7,964.00	9	0.000	N.Stk	0.000		10200002	24/04/2020	35136088 NO
6	3609032339	WELDING ROD 6013 ,SIZE:2.5MMX356 (RRAR28)	1.000	1.000	Rs1,457.33	Rs1,457.33	5	2.000	N.Stk	1.000		10170087	25/08/2017	PK NO
7	3609020042	OIL STONE(150MMX50MMX25MM)	2.000	2.000	Rs222.50	Rs445.00	11	2.000	N.Stk	0.000		10170098	23/09/2017	329A3Z3000 NO 33/3811208 8
8	3603110021	SHROUD SET TURBINE STAGE#3	1.000	1.000	Rs1.00	Rs1.00	6	0.000	N.Stk	0.000		10190186	13/09/2020	

Asstt Manager (F)
NEEPCO LTD AGBPS
Bokulani, Dist. [illegible]

Cost Accountant Mem. No. 41585

Dy. General Manager (C&M)
[illegible], Go the Head of [illegible]
AGBPP, NEEPCO, Bokulani

~303~

											329A322B30 ST 4/35112030
9	3603000143 CASE & SHROUD ASSGY.TURBINE,Alt of 36 Shrouds Stage 1										
	1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	0.000	10200035	06/07/2020	PS
10	3609032755 HSS TAPER SHANK DRILL BIT SIZE 10 MM										
	5.000	5.000	Rs471.27	Rs2,356.36	5	6.000	N.Stk	6.000	10180169	22/02/2020	
									10200125	12/11/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585

उप. महा प्रबंधक (वि/उ)
Dy. General Manager (E/M)
का. प्रभार प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

m3810r2 — NEEPCO Ltd. AGBPP — PAGE : 1 of1

DATE : 14/08/2024

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#4

ISSUE STORE:MAW

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	S/A	PROJECT CODE
31	10	0261	20200100	20.01.2021	20200522	22.01.2021				1	1000

2020-21
Sl.no (9)(5)
(17)

Sl	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	CN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3609000141 GASKET,Gasket MSW size 1" class 150								NO
3.000	3.000	Rs1,081.43	Rs5,044.29	5	4.000	N.Stk	4.000	10200106	03/11/2020
2	3602030013 CAP & LINER ARRGT.-COMBUSTION,LINEAR ASSY COMB(PGMA-35111)(G-25)							35111017/8 NO 99E011GG01 3	
2.000	2.000	Rs.50	Rs1.00	7	0.000	N.Stk	0.000	10200036	07/07/2020
3	3602030022 CAP & LINER ARRGT.-COMBUSTION,LINEAR ASSY COMB(G-24)							35111033/8 NO 99E011GG01 4	
3.000	3.000	Rs10,56,336.00	Rs31,69,008.00	3	0.000	N.Stk	0.000	10200036	07/07/2020
4	3602030004 CAP & LINER ARRGT.-COMBUSTION,COMB LINEAR ASSY(G-24)							35111001/8 NO 99E011GG01 2	
4.000	4.000	Rs.25	Rs1.00	7	0.000	N.Stk	0.000	10200036	07/07/2020
5	3604000119 GT EXHAUST FRAME & PLENUM ASSY.,GASKET CERAMIC FIBRE (GT97511000011)							EYGT975159 MR 21.86/35904 136	
20.000	20.000	Rs1,598.90	Rs31,978.00	8	20.000	N.Stk	20.000	10200106	03/11/2020
6	3601019209 COOLING & SEALING,GASKET MSW 316H 150(WITH INNER RING)							35507189 NO	
1.000	1.000	Rs1,602.38	Rs1,602.38	6	12.000	N.Stk	12.000	10100037	05/06/2010

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist [illegible]

MOHUJ GOYAL & CO. Cost Accountant Mem. No. 41585 GUWAHATI

उप. महा प्रबन्धक (वि./उ)
Dy. General Manager (E/M)
कृते. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.जी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

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7	3604010729 FRAME ASSY.EXHAUST/CAP SCREW SOCKET HEAD M10X20										
	1.000	1.000	Rs1,028.34	Rs1,028.34	3	28.000	N.Stk	28.000	10120230	35904337	NO 02/03/2013
8	3602010149 COMBUSTION CHAMBER ARRGT.GASKET(FUEL NOZZLE)									HV35100343	NO
	10.000	10.000	Rs1,307.40	Rs13,074.00	18	0.000	N.Stk	0.000	10200366	,6001/3510 8043	03/11/2010
9	3605010111 HOSE FLEXIBLE METAL									336A9286P0	NO
	5.000	5.000	Rs42,898.60	Rs2,19,493.00	2	0.000	N.Stk	0.000	10120230	61	02/03/2013
10	3609031123 SS SHIM SHEET(304 GRADE),THICKNESS=0.5MM										SN
	2.000	2.000	Rs1,969.00	Rs3,938.00	4	0.000	N.Stk	0.000	10130106		02/09/2013

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist.

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

Dy. General Manager (C/M)
AGBPS, NEEPCO, Bokuloni

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m3010r2 NEEPCO Ltd. PAGE : 1 of1
DATE : 16/06/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE-DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#6
ISSUE STORE: MAIN
COST CENTRE: (3101) GT & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.: GT&AUX DIVN
ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20200090	07.12.2020	20200432	07.12.2020				1	1000

2020-21
91. No (3)

SL	MATL.CODE	MATERIAL DESCRIPTION	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	SUPP. PART	GRN No	GRN DATE	CN
1	3609032418	MARKIN CLOTH(BAGRAJ BRAND)	146.000	146.000	Rs26.21	Rs3,827.33	152	5127.750	N.Stk	3997.000		10200129	01/12/2020 35112133	NO
2	3603110185	CASE ARRGT.TURBINE/PIN SHROUD STAGE#2	28.000	28.000	Rs3,262.71	Rs91,356.00	9	0.000	N.Stk	0.000		10200002	24/04/2020 35112134	NO
3	3603110191	CASE ARRGT. TURBINE/PIN SHROUD STG#2	2.000	2.000	Rs3,234.50	Rs6,469.00	6	0.000	N.Stk	0.000		10200002	24/04/2020 35112136	NO
4	3603113219	CASE ARRGT.TURBINE/PIN SHROUD STG#3	30.000	30.000	Rs4,055.67	Rs1,21,670.10	4	0.000	N.Stk	0.000		10200002	24/04/2020 21381362P0 01/3511213	NO
5	3603000222	CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2	2.000	2.000	Rs3,447.00	Rs6,894.00	9	0.000	N.Stk	0.000		10200002	24/04/2020 21381363P0 01/3511213	NO
6	3603000231	CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2	34.000	34.000	Rs12,793.66	Rs4,34,981.00	10	0.000	N.Stk	0.000		10200103	24/10/2020 279A1659P0 02/3511213	NO
7	3603110033	CASE ARRT.TURBINE/KEY FOR SHROUD STAGE#3	28.000	28.000	Rs4,126.46	Rs1,15,541.00	8	0.000	N.Stk	0.000		10200002	24/04/2020	

Asstt. Manager (F)
NEEPCO LTD AGBPS
Kokulani, Dist. Nalbari

MOHIT GOGOI & CO.
Cost Accountant
Mem No. 41585
DARRANG

Dy. GM (F&CA)
Dy. General Manager (E/M)
Head's Signature, On the Head of Plant
ए. जी.एम.(ई.), बिजली, एजीबीपीपी
AGBPP, NEEPCO, Kokulani

~ 307 ~

8	3603110042 CASE ASMGT.TURBINE/KIT FOR SHROUD STAGE#3										2758166070 WO 02/3511214 1
	2.000	2.000	Rs2,405.00	Rs4,810.00	8	0.000	N.Stk	0.000	10200002	24/04/2020	G-1971/353 ST 06090
9	3603060004 BLADE KIT -TURBINE ROTOR STAGE -1,BLADE KIT -TURBINE ROTOR#3										
	1.000	1.000	Rs1.00	Rs1.00	10	0.000	N.Stk	0.000	10200036	26/06/2020	314B716400 WO 11/314B716 4G023
10	3603060002 BLADE KIT TURBINE ROTOR STAGE 3,NIL										
	1.000	1.000	Rs1.00	Rs1.00	6	0.000	N.Stk	0.000	10100186	13/03/2020	PS
11	3609031275 GASKET SHEET,THICKNESS:2.0MM(KLINGER OILIT)										
	1.000	1.000	Rs6,596.00	Rs6,596.00	13	2.000	N.Stk	2.000	10200061	07/09/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist [illegible]

MONUJ GOGOI & CO. Cost Accountant Mem.No. 41585 GUWAHATI

उप. महा प्रबन्धक (वि.य)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

m3810r2 NEEPCO Ltd. PAGE : 1 of1
DATE : 16/08/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT&E

ISSUE STORE:MAIN

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQUISITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	S/A	PROJECT CODE
31	10	0261	20200084	02.12.2020	20206414	02.12.2020				1	1000

2020-21
Sl. No (2)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	PSL BALANCE	GRN NO	GRN DATE
1	3609033633 HSS TAPER SHANK DRIL BIT SIZE:12.50MM(NIRANJA)								NO
5.000	5.000	Rs611.00	Rs3,055.00	2	5.000	N.Stk	5.000	10200125	12/11/2020
2	3609032418 MARKIN CLOTH(PAGRAJ BRAND)								NO
230.000	230.000	Rs26.21	Rs6,029.34	150	6210.750	N.Stk	3997.000	10180116	01/11/2018
3	3606000021 GT EXHAUST FRAME & PLENUM ASSY.,BOLT (HIGH TEMP) 12 POINT HEAD M-24X80								MUST971159 NO 8028
1.000	1.000	Rs1.00	Rs1.00	9	36.000	N.Stk	33.000	2679	12/05/2006
4	3606020054 CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,Seal Assy Stationary Oil Bearing								35101030/N NO YGT9753842 112
1.000	1.000	Rs91,479.00	Rs91,479.00	7	1.000	N.Stk	1.000	10190163	11/02/2020
5	3604019039 BEARING ASSY NO.2,Deflector Pwd								35201037/1 ST 64C2819P09 1
1.000	1.000	Rs82,549.00	Rs82,549.00	8	0.000	N.Stk	0.000	10200052	24/08/2020
6	3609031071 PLASTIC HAMMER CAP SIZE:(DMM								NO
8.500	8.000	Rs95.15	Rs761.23	27	18.000	N.Stk	48.000	10170052	03/07/2017
7	3611000128 AUXILLIARY GEER BOX/O RING 59(FLENDER DNG.POS.NO.487)								FLENDER NO CODE:N3842 1

Assit Manger (F)
NEEPCO LTD AGBPS
Rokulani, Bisl

Cost Accountant Mem No. 47505 GUWAHATI

अ. म. प्रबंधक (वि/उ)
Dy. General Manager (E/M)
कृ. प्रभारी अधिकारी, Dy. the Head of Plant
ए.जी.बी.पी., पोखली, कोकुलानी
AGBP, NEEPCO, Rokulani

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	1.000	1.000	Rs15,000.00	Rs15,000.00	4	0.000	N.Stk	0.000	10200002	24/04/2020
9	3611000119 AUXILLIARY GEAR BOX/O RING 9(FLENDER DRG.POS.NO.22)									FLENDER NO CODE:N3442 3
	1.000	1.000	Rs15,000.00	Rs15,000.00	4	0.000	N.Stk	0.000	10200002	24/04/2020 SET
5	3611000030 SET OF BEARING FOR HOP(1SET=4NOS)									
	1.000	1.000	Rs1.00	Rs1.00	7	0.000	N.Stk	0.000	10200002	24/04/2020 NO
16	3609030698 STRAIGHT SHANK DRILL BIT 6MM(JK)									
	4.000	4.000	Rs300.00	Rs1,200.00	6	6.000	N.Stk	6.000	10200124	12/11/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MAILS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

Assn Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DARRAJAN

उप. महा प्रबन्धक (वि.प.)
Dy. General Manager (E/M)
उप. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

m3810r2 NEEPCO Ltd. PAGE : 1 of1
DATE : 16/08/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED	/----->
DEPARTMENT USE	31	81	
ISSUE ON LOAN	32	82	
ISSUE FOR SALE DISPOSAL	33	83	
LOI/AGREEMENT			
COST RECOVERY BASIS-NORMAL	34	84	
COST RECOVERY BASIS-DOUBLE			
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86	
WRITE OFF FOR DAMAGES	37	87	
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88	
ADJUSTMENT BY AUDITORS			
STOCK VERIFIERS	40	90	

REMARKS: FOR MI OF GT&G

ISSUE STORE:MAN

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

Fly. General Manager (E/M)
देख प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकाजो, बोकारो पी
AGBP, NEEPCO, Bokaloni

2020-21

Sl. No (1), (8)

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQSITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	M/A	PROJECT CODE
31	10	0161	20200086	05.12.2020	20200428	05.12.2020			1		1000

SL	MATL.CODE	MATERIAL DESCRIPTION	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lc	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE	SUPP. PART	UM
1	3613000142	RATCHET MECHANISM/CAM,FREEWHEEL ASSY.	1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	X2273048	NO
2	3613000151	RATCHET MECHANISM/ROLLER	22.000	22.000	Rs5,903.35	Rs1,29,878.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	211935A	NO
3	3613000160	RATCHET MECHANISM/BEARING	2.000	2.000	Rs42,261.50	Rs84,523.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	M303A	NO
4	3613000179	RATCHET MECHANISM/RACE FREEWHEEL	1.000	1.000	Rs2,83,592.00	Rs2,83,592.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	216020	NO
5	3613000188	RATCHET MECHANISM/SPRING	2.000	2.000	Rs1,053.00	Rs2,106.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	201341 BG	NO
6	3613000197	RATCHET MECHANISM/CAGE,FREE	1.000	1.000	Rs1,79,019.00	Rs1,79,019.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	219123	NO
7	3609031071	PLASTIC HAMMER CAP SIZE:40MM	10.000	10.000	Rs95.17	Rs951.67	28	8.000	N.Stk	48.000	10170052	03/01/2017		NO
8	3609032418	MARKIN CLOTH(KAGHAZ BRAND)	337.000	337.000	Rs26.21	Rs8,834.31	151	5873.750	N.Stk	3097.000	10180116 10200129	01/11/2018 01/12/2020		MR NO
9	3609020042	OIL STONE(150MMX50MMX25MM)	2.000	2.000	Rs222.50	Rs445.00	12	0.000	N.Stk	0.000	10170098	23/09/2017		ST
10	3619000019	BEARING SET FOR LGB	1.000	1.000	Rs.50	Rs.50	7	1.000	N.Stk	1.000	10200002	24/04/2020		

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokaloni, Dist. [illegible]

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DEHRADUN

~ 311 ~

m3810r2
DATE : 30/08/2024

NEEPCO Ltd.
AGBPP

PAGE : 1 of1

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: CB

ISSUE STORE:

COST CENTRE: (3013) CONTROL & INSTRUMENTATION

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.: C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INSPECTOR CODE	REQUISITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	S/A	PROJECT CODE
31	10	0367	20000060	31.03.2021	20200712	31.03.2021			1		1000

2019-20
Sl. No (15)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3811250006 90AF 30A, COMPLETE ACTUATOR, QTG # 1 & 4, ROTORK MAKE (ND- 2220-00-02)								NO
1.000	1.000	Rs.00	Rs.00	9	0.000	N.Stk	0.000	10190187	13/03/2020

SIGNATURE

ISSUED BY STORE KEEPER
ASST. (MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DULIAJAN

Dy. General Manager (E/M)
उप. संयंत्र प्रमुख, Dy.o the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

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DATE : 30/08/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: CB

ISSUE STORE:

COST CENTRE: (3013) CONTROL & INSTRUMENTATION

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.: C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	S/A	PROJECT CODE
31	10	0267	20200001	01.06.2020	20200006	01.06.2020				1	1000

2019-20
St. No. 15

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	CRN
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN NO	GRN DATE
1	3801010159	CONNECTOR THERMOCOUPLE							287A139900 NO 10
20.000	20.000	Rs1,973.95	Rs39,477.06	4	48.000	N.Stk	0.000	5029 10130230 10150223	16/09/2006 13/03/2014 22/01/2016
2	3801060066	SPARK PLUG ASSEMBLY P/N 196D19860004							P/N 196D1986G004 NO
2.000	2.000	Rs2,39,001.50	Rs4,78,003.00	7	0.000	N.Stk	0.000	10190140	02/01/2020
3	3801010061	Compressor Discharge Thermocouple-351a3188P003,Thermocouples - RTDs - Temperature Switches							NO
2.000	2.000	Rs17,193.50	Rs34,387.00	11	0.000	N.Stk	0.000	10190179	01/03/2017
4	3811250006	NDAP 30A,COMPLETE ACTUATOR, GTG # 1/4,ROTOR NARE (ND- 2220-00-02)							NO
1.000	1.000	Rs.50	Rs.50	8	1.000	N.Stk	0.000	10190187	13/03/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

Asstt Manager (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]

MONUJ GOGOI & CO
Cost Accountants
Mem. No. 41585
GUWAHATI

Dy. General Manager (E/M)
भा. प्रौ. नि., AGBP, NEEPCO, Bokuloni

AGBP, NEEPCO, Bokuloni

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DATE : 30/08/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS FOR MI OF DPPG

ISSUE STORE:MAM
COST CENTRE:(3101)GT & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20190083	18.03.2020	20191661	18.03.2020				1	1000

SL	MATL.CODE	MATERIAL DESCRIPTION	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	PSL BALANCE	SUPP. PART	UM	GRN No	GRN DATE
1	3604011096	GT EXHAUST FRAME & PLENNUM ASSY.,SUPPORT DIFFUSER	6.000	6.000	Rs33,001.50	Rs1,98,409.00	3	0.000	N.Stk	0.000		NO	35904350 10140018	03/09/2014
2	3609033509	LOCKTITE 596 (200 ML TUBE)	1.000	1.000	Rs501.50	Rs501.50	2	9.000	N.Stk	14.000		NO	10190144	22/01/2020
3	3609020529	CLEANER, 280/330 ML.CAN,CHECKMATE	25.000	25.000	Rs200.60	Rs5,014.92	68	98.000	N.Stk	50.000		NO	10180136	20/11/2018
4	3609020510	DEVELOPER, 280/330 ML CAN,CHECKMATE	15.000	15.000	Rs203.74	Rs3,056.13	47	16.000	N.Stk	44.000		NO	10170087 10180136	25/08/2017 20/11/2018
5	3611005004	ANCILLIARY GEAR BOX/SPACER FOR MDP(FLENDER DRG.NO5.NO.3571/	2.000	2.000	Rs36,779.00	Rs73,558.00	2	0.000	N.Stk	4.000	FLENDER CODE:9474A 04583	NO	10190185	12/03/2020
6	3609031071	PLASTIC HAMMER CAP SIZE:40MM	6.000	6.000	Rs95.15	Rs570.90	25	34.000	N.Stk	48.000		NO	10170052	03/07/2017
7	3609033138	EMERY PAPER, GRADE:120	3.000	3.000	Rs18.90	Rs56.70	8	7.000	N.Stk	80.000		NO	10190162	11/03/2020
8	3609031451	SILICONE SEALANT 300ML TUBE(SILASTIC)	4.000	4.000	Rs660.80	Rs1,643.20	30	16.000	N.Stk	44.000		NO	10190162	11/03/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL

Dy. General Manager (E/M)
डी. संयंत्र प्रमुख, Dy.the Head of Plant
ए.जी.बी.पी., नीपको, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dhubri

2019-20
Sl. no (14)

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DHUBRI

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m3910c2
DATE : 30/08/2024

NEEPCO Ltd.
AGBPP

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MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#5

ISSUE STORE:MAN

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQUISITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0361	20190079	16.03.2020	20190653	16.03.2020				1	1000

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	GRN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	36031100241 SHROUD SET TURBINE STAGE#3							32$A320GO NO 02/3511205 0	
1.000	1.000	Rs40,12,000.00	Rs40,12,000.00	5	1.000	N.Stk	0.000	10190069	17/08/2019
2	36031160151 NOZZLE ASSEMBLY TURBINE STAGE#3							109$919G00 NO 3/112$6442 6007	
1.000	1.000	Rs4,58,15,252.00	Rs4,58,15,252.00	4	0.000	N.Stk	0.000	10190069	17/08/2019
3	36000200361 CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,LINER BRG-1							G-2131/142 NO 34$10G001	
1.000	1.000	Rs2,35,517.00	Rs2,35,517.00	6	0.000	N.Stk	0.000	10190153	29/01/2020
4	36040180021 BEARING ASSY NO.2,LINER BRG-2							G-2446/352 NO 01030	
1.000	1.000	Rs1,80,067.00	Rs1,80,067.00	4	0.000	N.Stk	0.000	10190185	12/03/2020
5	36000200451 CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,Reflectors							35101020 ST	
1.000	1.000	Rs2,30,583.00	Rs2,30,583.00	5	0.000	N.Stk	0.000	10190120	28/11/2019
6	36110000211 BEARING SET OF ADB							ST	
1.000	1.000	Rs14,55,264.00	Rs14,55,264.00	6	0.000	N.Stk	0.000	10190164	13/02/2020
7	36110000391 SET OF BEARING FOR MOP(1SET=4NOS)							ST	
1.000	1.000	Rs16,26,126.00	Rs16,26,126.00	6	0.000	N.Stk	0.000	10190164	13/02/2020

Dy. General Manager (E/M)
O/o the Head of Plant
AGBPP, NEEPCO, Bokuloni

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Kamrup

2019-20

81. no. (13)

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

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#3810c2
DATE : 30/08/2024

NEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS FOR MI OF GT#6

ISSUE STORE:MAM

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	S/A	PROJECT CODE
31	10	0261	20200090	07.12.2020	20200432	07.12.2020				1	1000

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Loc	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3609032418 MARKIN CLOTH(NAGRAJ BRAND)								MR
146.000	146.000	Rs26.21	Rs3,827.33	102	5727.750	N.Stk	3997.000	10200129 01/12/2020 35112133	NO
2	3603110185 CASE ARRGT.TURBINE/PIN SHROUD STAGE#2								
28.000	28.000	Rs3,262.71	Rs91,356.00	9	0.000	N.Stk	0.000	10200002 24/04/2020 35112134	NO
3	3603110194 CASE ARRGT. TURBINE/PIN SHROUD STG#2								
2.000	2.000	Rs3,234.50	Rs6,469.00	4	0.000	N.Stk	0.000	10200002 24/04/2020 35112135	NO
4	3603110219 CASE ARRGT.TURBINE/PIN SHROUD STG#3								
30.000	30.000	Rs4,055.67	Rs1,21,670.00	4	0.000	N.Stk	0.000	10200002 24/04/2020 213B1362P0	NO
5	3603000222 CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2							01/3511213 8	
2.000	2.000	Rs3,447.00	Rs6,894.00	9	0.000	N.Stk	0.000	10200002 24/04/2020 213B1363P0	NO
6	3603000231 CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2							01/3511213 7	
34.000	34.000	Rs12,793.56	Rs4,34,981.00	10	0.000	N.Stk	0.000	10200103 24/10/2020 279A1619P0	NO
7	3603110033 CASE ARGT.TURBINE/KEY FOR SHROUD STAGE#3							02/3511213 5	
28.000	28.000	Rs4,126.46	Rs1,15,541.00			N.Stk	0.000	10200002 24/04/2020	

Dy. General Manager (E/M)
उप. महाप्रबंधक (वि/अ)
ए.जी.बी.पी., बोकाजली, बोकुलोनी
AGBP, NEEPCO, Bokuloni

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Kamrup
2019-20
Sl. no (12)

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
GUWAHATI

2316

m3610:2 NEEPCO Ltd. PAGE : 1 of1
DATE : 30/08/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS : ISSUE STORE:NSW
FOR WI OF : GT#6
COST CENTRE:(3101)GT & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0161	20200091	21.12.2020	120000456	21.12.2020				1	1000

Asstt Manager (F)
NEEPCO LTD AGBPS
Bokuleni, Dist. Golaghat

2019-20

81 no. 9, 10, 11

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	GRN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3609032418 MANNIN CLOTH(MAGNAJ BRAND)								MR
858.750	858.750	Rs26.21	Rs22,511.04	153	6869.000	N.Stk	3997.000	10200129	01/12/2020
2	3603030007 NOZZLE ARRGT TURBINE STAGE 2,2nd stage NOZZ. Assy FM6B							1178B002G0 ST 01/1196243 4G008	
1.000	1.000	Rs1.00	Rs1.00	6	0.000	N.Stk	0.000	10190186	13/03/2020
3	3609040006 NOZZLE ASSBY TURBINE STAGE 3 NIL							35137000	NO
1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	0.000	10190186	13/03/2020
4	3609000275 GASKET SHEET 3MM THICK,KLINGER (K GILIT,FEB PS 18 KG APPROX)								PS
1.000	1.000	Rs9,027.50	Rs9,027.50	11	1.000	N.Stk	1.000	10160081	11/08/2016
5	3609020389 MOLYKOTE, 1000, GM PLUS.								NS
1.000	1.000	Rs2,055.83	Rs2,055.83	25	5.000	N.Stk	7.000	10130139	04/10/2013
6	3609031020 EMERY TAPE(FINE GRADE)SIZE:50MM(W)X50MTRS(L)								RO
2.500	2.500	Rs766.80	Rs1,917.00	5	0.000	N.Stk	0.000	10190189	20/03/2020
7	3605000015 PIPING ARRGT. COOLING & SEALING,GASKET NSW 4IN @ 150							HYHY724036 1101/39507 236	NO
2.000	2.000	Rs1,413.75	Rs2,827.50	13	14.000	N.Stk	0.000	10160126	02/11/2016
8	3605031284 GRINDING WHEEL,SIZE:6MMX15MMX10MM(MAKITA)								PS
10.000	10.000	Rs53.64	Rs536.36	22	23.000	N.Stk	8.000	10190189	20/03/2020

MONUJ GOGOI & CO
Cost Accountant
Mem. No. 41585
GOLAGHAT

2317

m1810r2
DATE : 30/08/2024

NEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS	ISSUE STORE:MAN
FOR MI OF GT&S	COST CENTRE:3101 GT & AUXILIARY
	CONTRACTOR:
	WORK DETAILS:
	AGREEMENT NO. DATE:
	INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

Asst Manager (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Dhemaji

2019-20

Sl. no. (8)

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20200004	28.04.2020	20200025	28.04.2020				1	1000

Sl.	MATL.CODE	MATERIAL DESCRIPTION	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/S.St	PSL BALANCE	SUPP. PART	UM	GRN No	GRN DATE
1	3602010051	COMBUSTION CHAMBER ARRGT., BOLT 12 POINT HEAD M 20X75	21.000	21.000	Rs.00	Rs.00	14	77.000	N.Stk	47.000			HYGT975117 NO 6010/35108 002 10120230 10130218 10160126	02/03/2013 11/03/2014 02/11/2016
2	3600030187	BEARING,THRUST/BEARING THRUST TILTING PAD	1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	1.000			35204015 NO 10190129 35204010/1 NO	28/11/2019
3	3600030114	BEARING,THRUST/BEARING THRUST	1.000	1.000	Rs3,51,167.00	Rs3,51,167.00	3	1.000	Stock	0.000			64C2817G00 2 10120230	02/03/2013
4	3602020089	TRANSITION PIECE ARRGT.-COMBUSTION,SEAL APT SIDE	10.000	10.000	Rs22,403.32	Rs2,24,033.16	12	9.000	N.Stk	9.000			HY35115001 NO 6001/35115 001 10140040 10140161	09/05/2014 08/12/2014
5	3602020175	TRANSITION PIECE ARRGT.-COMBUSTION,TP Seal Stop RS6001	10.000	10.000	Rs12,401.10	Rs1,24,011.00	12	10.000	N.Stk	10.000			21986788PO NO 81/3511500 9 10140160	08/12/2014
6	3602020087	TRANSITION PIECE ARRGT.-COMBUSTION,BOLT BODY ROUND											HY35115010 NO 6001	

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

m3810r2 NEEPCO Ltd. PAGE : 1 of1
DATE : 16/08/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS : FOR MI OF OT#5

ISSUE STORE:MAN

COST CENTRE: (3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20190079	16.03.2020	20190653	16.03.2020				1	3000

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Blk Lc	CARD BALANCE	St/N.St	FSL BALANCE	GRN No	GRN DATE
1	3603110024 SHROUD SET TURBINE STAGE#2							329A3230GS NO 02/5811205 0	
1.000	1.000	Rs40,12,000.00	Rs40,12,000.00	5	1.000	N.Stk	0.000	10190069	17/08/2019
2	3603110015 NOZZLE ASSEMBLY TURBINE STAGE#3							1098919S0C NO 3/1125K442 0007	
1.000	1.000	Rs4,58,15,252.00	Rs4,58,15,252.00	4	0.000	N.Stk	0.000	10190069	17/08/2019
3	3600020036 CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,LINER SRG-1							G-2331/142 NO 049106001	
1.000	1.000	Rs2,35,517.00	Rs2,35,517.00	6	0.000	N.Stk	0.000	10190153	26/01/2020
4	3604010002 BEARING ASSY NO.2,LINER SRG-2							G-2446/552 NO 01030	
1.000	1.000	Rs1,80,067.00	Rs1,80,067.00	4	0.000	N.Stk	0.000	10190185	12/03/2020
5	3600020043 CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,Deflectors							35101020 ST	
1.000	1.000	Rs2,30,583.00	Rs2,30,583.00	5	0.000	N.Stk	0.000	10190120	29/11/2019
6	3611000021 BEARING SET OF AGB							ST	
1.000	1.000	Rs14,55,264.00	Rs14,55,264.00	6	0.000	N.Stk	0.000	10190164	13/02/2020
7	3611000030 SET OF BEARING FOR MOP(1SET=4NOS)							ST	
1.000	1.000	Rs16,26,126.00	Rs16,26,126.00	6	0.000	N.Stk	0.000	10190164	13/02/2020

Dy. General Manager (E/M)
उ. महा प्रबंधक (वि.अ.)
O&M, NEEPCO, Bokuloni

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Kamrup

2019-20
Sl. No 6, 7

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 GUWAHATI

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8	3611000058 BOWEX COUPLING FOR MROP										NO
	1.000	1.000	Rs1,91,915.00	Rs1,91,915.00	9	0.000	N.Stk	0.000	10190164	13/02/2020	
9	3611000128 AUXILLIARY GEAR BOX/O RING 59(FLENDER DRG.POS.NO.467)									FLENDER CODE:N3842 3	NO
	1.000	1.000	Rs14,962.00	Rs14,962.00	2	0.000	N.Stk	0.000	10190164	13/02/2020	
10	3611000119 AUXILLIARY GEAR BOX/O RING 9(FLENDER DRG.POS.NO.22)									FLENDER CODE:N3842 3	NO
	1.000	1.000	Rs14,962.00	Rs14,962.00	2	0.000	N.Stk	0.000	10190164	13/02/2020	
11	3611000085 AUXILLIARY GEAR BOX/DEFLECTOR FOR AGB(FLENDER DRAW & POS. NO. 213 AND 220)									CODE:29751 NO 050004	
	1.000	1.000	Rs2,30,125.50	Rs2,30,125.50	2	1.000	N.Stk	0.000	10190164	13/02/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]arh

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DHUBRI

उप महा प्रबंधक (वि/ल)
Dy. General Manager (E/M)
का. संयंत्र प्रमुख, O/o the Head of Plant
ए.जी.बी.पी., बोकुलोनी, बोंगाईगांव
AGBP, NEEPCO, Bokuloni

m3610:2 NEEPCO Ltd. PAGE : 1 of1
DATE : 16/08/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#5

ISSUE STORE:MAIN
COST CENTRE:(3101)GT & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

Asstt. Manager (F)
NEEPCO LTD AGBPS
Bokulani, Dist. Dhemaji

2019-20

TC	From LOC	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20190088	31.03.2020	20190693	31.03.2020				1	1000

SL	MATL.CODE	MATERIAL DESCRIPTION										SUPP. PART	CN
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Loc	CARD BALANCE	St/N.St	DSL BALANCE	GRN NO	GRN DATE				
1	3609020029	CLEANER, 280/330 ML.CAN,CHEKMATE											NO
44.000	44.000	Rs.00	Rs.00	71	0.000	N.Stk	50.000	10180136	20/11/2018				
4	3603110333	CASE ARRGT.TURBINE/KEY FOR SHROUD STAGE#3							279A1659PO NO 02/3511213 9				
28.000	28.000	Rs7,349.32	Rs2,05,781.00	6	0.000	N.Stk	0.000	10140018	03/05/2014				
5	3603110342	CASE ARRGT.TURBINE/KEY FOR SHROUD STAGE#3							279A1600PO NO 02/3511214 1				
2.000	2.000	Rs7,437.00	Rs14,874.00	6	0.000	N.Stk	0.000	10130218	11/03/2014				
6	3603000222	CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2							213B1342PO NO 01/3511213 8				
2.000	1.000	Rs3,447.00	Rs6,894.00	7	0.000	N.Stk	0.000	10190123	30/11/2019				
7	3603000231	CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2							213B1363PO NO 01/3511213 7				
34.000	34.000	Rs12,793.56	Rs4,34,981.00	8	0.000	N.Stk	0.000	10190122	29/11/2019				
8	3603110185	CASE ARRGT.TURBINE/PIN SHROUD STAGE#2							35112133 NO				
28.000	28.000	Rs3,262.71	Rs91,316.00	7	0.000	N.Stk	0.000	10190122	29/11/2019				

MONUJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

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											35112134 NO
9	3603110194 CASE ARRGT. TURBINE/FIN SHROUD STG#2										
	2.000	2.000	Rs5,350.60	Rs10,701.00	2	0.000	N.Stk	0.000	10120230	02/03/2013	35112132 NO
10	3603110200 FIN SHROUD STG#2										
	2.000	2.000	Rs6,173.00	Rs12,346.00	2	0.000	N.Stk	0.000	10120230	02/03/2013	35112136 NO
11	3603110219 CASE ARRGT.TURBINE/FIN SHROUD STG#3										
	30.000	30.000	Rs2,675.30	Rs80,259.00	2	0.000	N.Stk	0.000	10120233	07/03/2013	NO
12	3609032418 MARKIN CLOTH(NAGRAJ BRAND)										
	315.000	315.000	Rs42.38	Rs13,350.53	132	1884.750	N.Stk	3997.000	10160116	01/11/2018	G-3971/353 ST 06090
13	3603060004 BLADE KIT -TURBINE ROTOR STAGE -1,BLADE KIT -TURBINE ROTORS										
	1.000	1.000	Rs5,90,00,001.00	Rs5,90,00,000.00	8	0.000	N.Stk	0.000	10190069	17/08/2019	HYAR712312 NO 3239
14	3602010112 CAP SCREW HEAD SOCKET M12X30										
	1.000	1.000	Rs1.00	Rs1.00	3	68.000	N.Stk	65.000	6011	24/03/2009	279A1146P0 NO 01/3591240 8
15	3604000269 GT EXHAUST FRAME & PLENUM ASSY.,Enp Joint Segment Sheet										
	14.000	14.000	Rs29,484.71	Rs4,12,795.00	7	14.000	N.Stk	14.000	10130218	11/03/2014	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

Asst Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist.Kamrup

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 GUWAHATI

Dy. General Manager (E/M)
AGBP, NEEPCO, Bokuloni

m3610r2 — NEEPCO Ltd. — PAGE : 1 of1

DATE : 16/08/2034

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY ADDITIONS		
STOCK VERIFIERS	40	90

REMARKS | ISSUE STORE:MSM
COST CENTRE:(3030)GAS BOOSTER STATION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

IG	From Loc	INDENTOR CODE	REQUISITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0271	20190081	18.02.2020	20190598	29.02.2020				1	1000

2019-20

Sl.No (4)

SL	MAIL.CODE	MATERIAL	DESCRIPTION	SUPP. PART#	UN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	P&L BALANCE	GRN No	GRN DATE
1 3719000381 COIL,IGNITION W/LEAD								69997	NO
1.000	1.000	Rs48,009.00	Rs48,009.00	E	3.000	S.Stk	10.000	10180082	26/07/2018
2 3719000059 EXTENSION,ASM,SPARK PLUG(275CL+)								A296064K	NO
1.000	1.000	Rs7,289.96	Rs7,289.96	5	23.000	N.Stk	23.000	10190027	24/05/2019
3 3700020617 PISTON&ROD								MLJEEA1621 G1	NO
1.000	1.000	Rs1.00	Rs1.00	7	0.000	N.Stk	1.000	10190036	07/06/2019
4 3700020671 GASKET								W139621A	NO
4.000	4.000	Rs1,419.86	Rs1,679.43	7	3.000	N.Stk	1.000	10180164	10/01/2019
5 3719000004 WAUKESHA MAKE SPARK PLUG								69919D	NO
12.000	12.000	Rs21,003.88	Rs2,52,046.56	26	36.000	N.Stk	24.000	10190073	04/09/2019
6 3701000816 GAS ENGINE,Kit-Admission Valve Repair								211665D	NO
12.000	12.000	Rs39,487.40	Rs4,73,848.81	64	13.000	N.Stk	24.000	10190073	04/09/2019

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) — ISSUE CHECKED BY — STORES IN CHARGE — RECEIVED BY MATERIAL COLLECTOR

Asstt Manager (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. Kamrup

Dy. General Manager (F)
उप. सेनेरल मनेजर (फ़ा)
ए.जी.बी.पी., बोकुलोनी
AGBP, NEEPCO, Bokuloni

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DIBRUGARH

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m9610r2
DATE : 16/08/2024

NEEPCO Ltd.
AGBPP

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MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: CB

ISSUE STORE:

COST CENTRE: (3013) CONTROL & INSTRUMENTATION

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.: C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0267	20190017	29.08.2019	20190278	30.08.2019				1	1000

2019-20

81. MD. (3)

SL	MATL.CODE	MATERIAL DESCRIPTION										SUPP. PART	UM
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	FSL BALANCE	GRN No	GRN DATE				
1	3804090150	GAS LEAKAGE DETECTION SYSTEM, HONEYWELL											NO
1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	0.000	10190007	24/08/2015				
2	3816010100	VSH-VA2D(4 Inch)Gasket Set-V-541-595 ANSI 300,IL Palghat										ILP/CGD-20 ST 21204 SLNO 52	
1.000	1.000	Rs6,169.50	Rs6,169.50	3	1.000	N.Stk	1.000	30120180	03/12/2012				
4	3810010137	VSH-VA2D(4 Inch)Seal Ring Cv65-ANSI 300,IL Palghat											NO
1.000	1.000	Rs11,622.00	Rs11,622.00	3	0.000	N.Stk	0.000	1600263	22/03/2007				

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F)
NEEPCO LTD AGBPS
Bokuloni, Dist. [illegible]

Dy. General Manager (E/M)
Dy. Head of Plant
AGBPP, NEEPCO, Bokuloni

MONOJ GOGOI & CO.
Cost Accountant
Mem. No. 41585
DULIAJAN

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DATE : 16/08/2024 AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS | ISSUE STORE:MAW
COST CENTRE: (1020|GAS BOOSTER STATION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0271	20190011	22.05.2019	20190137	10.06.2019				1	1000

2019-20.

SL	MATL.CODE	MATERIAL DESCRIPTION	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE	SUPP. PART	UM
1	3719001469	NBL,PISTON,911 275 DIAMETER	1.000	1.000	Rs6,37,432.00	Rs6,37,432.00	2	0.000	N.Stk	1.000	10190034	07/06/2019	287304	NO
2	3719001478	NBL,LINER,CYLINDER	1.000	1.000	Rs3,88,490.00	Rs3,88,490.00	2	0.000	N.Stk	1.000	10190034	07/06/2019	287230D	NO
3	3719001496	NBL,HEAD,CYLINDER,ASM	1.000	1.000	Rs13,28,900.00	Rs13,28,900.00	2	0.000	N.Stk	0.000	10190033	06/06/2019	AD287002A	NO

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

Asstt Manger (F) NEEPCO LTD AGBPS Bokuloni, Dist.

Dy. General Manager (E/M) On the Head of Office NEEPCO, Bokuloni

MONUJ GOGOI & CO. Cost Accountant Mem. No. 41585 DIBRUGARH

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PART-I
FORM-1

SUMMARY SHEET

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

(Amount in lakhs)

Sl.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9
1.1	Depreciation	Rs Lakh	3,039.58	3,301.11	3,563.47	3,827.90	5,026.12	7,071.85
1.2	Interest on Loan	Rs Lakh	89.55	-	-	-	-	-
1.3	Return on Equity [1]	Rs Lakh	14,898.41	14,436.35	14,720.41	14,768.75	14,912.78	15,101.95
1.4	Interest on Working Capital	Rs Lakh	2,603.95	901.72	831.30	657.77	792.73	1,653.30
1.5	O & M Expenses-Normative	Rs Lakh	12,658.50	10,537.11	10,906.68	11,290.80	11,686.56	12,096.87
1.6	Special allowance (If applicable)	Rs Lakh						
1.7	Compensation Allowance (If applicable)	Rs Lakh						
	ANNUAL FIXED COST BEFORE SECURITY EXPENSES, CAPITAL SPARES AND WATER CHARGES	**Rs Lakh**	**33,290.09**	**29,176.29**	**30,021.86**	**30,545.22**	**32,418.19**	**35,923.97**
	Security Expenses	Rs Lakh		408.56	337.65	329.04	352.77	496.08
	Water Charges	Rs Lakh		10.00	10.00	10.00	10.00	10.00
	Capital Spares	Rs Lakh		1,196.09	2,830.93	168.10	201.53	715.38
	Less 10% salvage value	Rs Lakh		119.61	283.09	16.81	20.15	71.54
	TOTAL AFC	**Rs Lakh**		**30,661.33**	**32,907.34**	**31,025.54**	**32,952.34**	**37,062.89**
2.1	Landed Fuel Cost Gas as per FSA approved by beneficiaries	(Rs/SCM)	7.26	7.50	7.11	4.17	6.77	20.62
	(%) of Fuel Quantity	%	NA	NA	NA	NA	NA	NA
2.2	Landed Fuel Cost Imported Coal as per FSA approved by beneficiaries	%	NA	NA	NA	NA	NA	NA
	(%) of Fuel Quantity		NA	NA	NA	NA	NA	NA
2.3	Target Generation (at 72% PAF)	MWh	1,784,921.83	1,789,812.03	1,784,921.83	1,784,921.83	1,784,921.83	1,789,812.03
	Gross Station HR (Open Cycle)	kCal/kWh	3,440.00	3,578.00	3,578.00	3,578.00	3,578.00	3,578.00
	Gross Station HR (Combined Cycle)	kCal/kWh	2,500.00	2,600.00	2,600.00	2,600.00	2,600.00	2,600.00
	GCV of fuel gas	kCal/SCM	9,202.94	9,094.06	9,187.35	9,167.97	9,167.76	9,185.13
2.4	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	(Rs/SCM)	NA	NA	NA	NA	NA	NA
	(%) of Fuel Quantity	%	NA	NA	NA	NA	NA	NA
	Energy Charge Rate ex-bus (Paise/kWh) 2A,2B,2C,2D	Rs/KwH		2.20	2.07	1.22	1.97	6.00

(Petitioner)

PART-I

FORM-1(I)

STATEMENT SHOWING CLAIMED CAPITAL COST			
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station :	ASSAM GAS BASED POWER STATION		
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM

(Amount in lakhs)

Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.0	Opening Capital Cost	154,570.93	156,792.07	156,858.36	158,507.90	161,968.78
2.0	Add: Addition during the year/period	3,390.19	674.92	388.89	3,754.75	1,167.09
3.0	Less: De-capitalisation during the year/period	1,169.05	610.64	122.58	293.86	445.61
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period	-	-	1,385.24	-	-
6.0	Closing Capital Cost	156,792.07	156,856.35	158,507.90	161,968.78	162,690.27
7.0	Average Capital Cost	155,681.50	156,824.21	157,682.12	160,238.34	162,329.53

Statement showing claimed capital cost eligible for RoE at normal rate (A)						
Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1.0	Opening Capital Cost	154,570.93	156,866.54	158,730.82	158,382.37	161,843.25
2.0	Add: Addition during the year/period	3,264.66	674.92	388.89	3,754.75	1,126.32
3.0	Less: De-capitalisation during the year/period	1,169.05	610.64	122.58	293.86	445.61
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period	-	-	1,385.24	-	-
6.0	Closing Capital Cost	156,866.54	156,730.82	158,382.37	161,843.25	162,523.97
7.0	Average Capital Cost	155,619.00	156,698.00	157,557.00	160,113.00	162,184.00
		156,866.54	156,730.82	158,382.37	161,843.25	162,523.97

Statement showing claimed capital cost eligible for RoE at weighted average rate of interest on actual loan portfolio (B)						
Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1.0	Opening Capital Cost	-	125.53	125.53	125.53	125.53
2.0	Add: Addition during the year/period	125.53	-	-	-	40.77
3.0	Less: De-capitalisation during the year/period					
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period	-	-	-	-	-
6.0	Closing Capital Cost	125.53	125.53	125.53	125.53	166.30
7.0	Average Capital Cost	62.77	125.53	125.53	125.53	145.92

(Petitioner)

PART-I
FORM-1(IIA)

STATEMENT SHOWING RETURN ON EQUITY AT NORMAL RATE			
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station :	ASSAM GAS BASED POWER STATION		
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM

(Amount in lakhs)

SL	Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7
	Return on Equity						
1	Gross Opening Equity (Normal)	Rs Lakh	75,359.96	75,988.64	76,007.93	76,503.39	77,541.66
2	Less: Adjustment in Opening Equity	Rs Lakh	-	-	-	-	-
3	Adjustment during the year	Rs Lakh	-	-	-	-	-
4	Net Opening Equity (Normal)	Rs Lakh	75,359.96	75,988.64	76,007.93	76,503.39	77,541.66
5	Add: Increase in equity due to addition during the year / period	Rs Lakh	979.40	202.47	116.67	1,126.42	337.90
6	Less: Decrease due to De-capitalisation during the year / period	Rs Lakh	350.71	183.19	36.77	88.16	133.68
7	Less: Decrease due to reversal during the year / period	Rs Lakh	-	-	-	-	-
8	Add: Increase due to discharges during the year / period	Rs Lakh	-	-	415.57	-	-
9	Net closing Equity (Normal)	Rs Lakh	75,988.64	76,007.93	76,503.39	77,541.66	77,745.87
10	Average Equity (Normal)	Rs Lakh	75,674.30	75,998.29	76,255.66	77,022.52	77,643.76
11	Rate of ROE	Rs Lakh	18.78	18.78	18.78	18.78	18.78
12	Total ROE	Rs Lakh	14,213.15	14,274.00	14,322.34	14,466.37	14,583.05

(Petitioner)

PART-I
FORM-1(II)

STATEMENT SHOWING RETURN ON EQUITY AT WARO!			
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station :	ASSAM GAS BASED POWER STATION		
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM		

(Amount in lakhs)

Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)						
1	Gross Opening Equity (Normal)	0.00	37.66	37.66	37.66	37.66
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	0.00	37.66	37.66	37.66	37.66
5	Add: Increase in equity due to addition during the year / period	37.66	0.00	0.00	0.00	12.23
6	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
8	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
9	Net closing Equity (Normal)	37.66	37.66	37.66	37.66	49.89
10	Average Equity (Normal)	18.83	37.66	37.66	37.66	43.77
11	Rate of ROE	11.854	11.854	11.854	11.854	11.854
12	Total ROE	223.20	446.41	446.41	446.41	518.90

There is no actual loan . So interest is taken as 9.783% as per Tariff order dtd 21.12.21 Petition No. 208/GT/2019

(Petitioner)

PART-I
FORM-2

PLANT CHARACTERISTICS

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.								
Name of the Generating Station :	Assam Gas Based Power Plant								
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM								
Unit(s)/Block(s) Parameters	*Unit 1*	*Unit 2*	*Unit 3*	*Unit 4*	*Unit 5*	*Unit 6*	*Unit 7*	*Unit 8*	*Unit 9*
Installed Capacity (MW)	33.5	33.5	33.5	33.5	33.5	33.5	30	30	30
Schedule COD as per Investment Approval									
Actual COD/Date of Taken Over (as applicable)	1.5.1995	1.5.1995	1.7.1995	1.8.1995	1.4.1997	1.4.1997	1.4.1999	1.4.1999	1.4.1999
Pit Head or Non Pit Head									
Name of the HRSG							Waste Heat Recovery Boiler		
Name of the Turbine Generator Manufacture	Mitsubishi Heavy Industry, Japan						BHEL		
Main steams Pressure at Turbine Inlet (kg/Cm²)abs[1]							43	43	43
Main steams Pressure at Turbine Inlet (°C)[1]									
LPSteams Pressure at Turbine inlet (kg/Cm²)[1]							473	473	473
LPSteams Temperature at Turbine Inlet (°C)[1]									
Main Steam flow at Turbine Inlet under MCR condition (tons/hr)[2]									
Main Steam flow at Turbine inlet under VWO condition (tons/hr)[2]									
Unit Gross electrical output under MCR/Rated condition (MW)[2]									
Unit Gross electrical output under VWO condition (MW)[2]									
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh)[2]									
Conditions on which design turbine cycle heat rate guaranteed.	2167	2167	2167	2167	2167	2167	2070	2070	2070
% MCR	100								
% Makeup Water Consumption							7	7	7
Design Capacity of Makeup Water System									
Design Capacity of inlet Cooling System									
Design Cooling Water Temperature (°C)							27	27	27
Back Pressure							0.083	0.083	0.083
Steam flow at super heater outlet under BMCR condition (tons/hr) - Main/HP Steam									
Steam Pressure at super heater outlet under BMCR condition (kg/Cm²)- Main/HP Steam									

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Unit(s)/Block(s) Parameters	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
Steam Temperature at super heater outlet under BMCR condition (°C)- Main/HP Steam									
Steam flow at LP outlet under BMCR condition (tons/hr) - LP Steam									
Steam Pressure at LP outlet under BMCR condition (°C)- LP Steam									
SteamTemperature at LP outlet at BMCR condition (°C)- LP Steam									
Design/Guaranteed HRSG Efficiency (%)[1]									
Design Fuel with and without Blending of domestic/imported coal									
Type of Cooling Tower							Induced draft		
Type of Cooling System[2]							Closed Circuit		
Type of HRSG Feed Pump[3]							Motor Driven		
Fuel Details[4]	Natural gas								
- Primary Fuel	Natural Gas								
- Secondary Fuel	Nil	Nil	Nil	Nil	Nil	Nil			
- Alternate Fuels	Nil	Nil	Nil	Nil	Nil	Nil			
Types of SOX control system									
Types of NOX control system									
Details of SPM control system									
Special Features/Site Specific Features[8]	Intake and Make-up water system provided								
Special Technological Features[9]									
Environmental Regulation related features[10]	Nox control system provided								
Any other special features	This is a Combined cycle Gas based power plant with Gas booster(Gas engine operated) station.								

1: At turbine MCR condition
2: with 0% (nil) make up and design Cooling water temperature
3: at TMCR output based on gross generation, 0% (nil) makeup and design Cooling water temperature
4: With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR output
5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.
6: Motor driven, Steam turbine driven etc.
7: Coal or natural gas or Naptha or lignite etc.
8: Any site specific feature suach as Merry-Go-Round, Vicinity to sea, Intake/makeup water systems etc. scrubbers etc. Specify all such features
9: Any Special Technological feature like advanced class FA technology in Gas Turbines, etc.
10: Environmental Regulation related features like FGD, ESP etc.,
Note 1: In case of deviation from specified conditions in Regulation, correction curve of manufacturer may also be submitted
Note 2: Heat Balance Diagram has to be submitted along with above information in case of new stations
Note 3: The Terms - MCR, BMCR, HHV, Performance coal, are as defined in CEA Technical Standards for Construction of Electric Plants and Electric Lines

Petitioner

PART-I
FORM-3

NORMATIVE PARAMETERS CONSIDERED FOR TARIFF COMPUTATIONS

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

Year ending March

Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
Base Rate of Return on Equity	%	15.50	15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization		15.50	15.50	15.50	15.50	15.50	15.50
Effective Tax Rate[4]	%	17.472	17.472	17.472	17.472	17.472	17.472
Target Availability	%	72	72	72	72	72	72
In High Demand Season	%	72	72	72	72	72	72
Peak Hours	%	72	72	72	72	72	72
Off-Peak Hours	%	72	72	72	72	72	72
In Low Demand Season(Off-Peak)	%	72	72	72	72	72	72
Peak Hours	%	72	72	72	72	72	72
Off-Peak Hours	%	72	72	72	72	72	72
Auxiliary Energy Consumption	%	2.5	2.5	2.5	2.5	2.5	2.5
Gross Station Heat Rate	kCal/kWh	2500	2600	2600	2600	2600	2600
Specific Fuel Oil Consumption	ml/kWh	NA	NA	NA	NA	NA	NA
Cost of Coal/Lignite for Working Capital[1]	In Months	NA					
Cost of Main Secondary Fuel Oil for WC[1]	In Months						
Fuel Cost for Working Capital[2]	in Months	1	1	1	1	1	1
Liquid Fuel Stock for Working Capital[2]	in Months						
O & M expenses considering Regulation 29(1)(c)	Lakhs / MW	43.5	36.21	37.46	38.8	40.16	41.57
Maintenance Spares for Working Capital	% of O&M	30	30	30	30	30	30
Receivables for Working Capital	In Months	2	1.5	1.5	1.5	1.5	1.5
Storage capacity of primary fuel	MT						
SBI Base Rate + 350 basis points as on	%	11.65	12.050%	11.250%	10.500%	10.500%	12.000%
Blending ratio of domestic coal/imported coal		NA					
			12.05%	11.25%	10.50%	10.50%	12.00%

1. For Coal based/lignite based generating stations
2. For Gas Turbine/Combined Cycle generating stations duly taking into account the mode on gas fuel and liquid fuel
3. Mention relevant date
4. Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or advance tax)/gross income, where gross income refers the profit before tax

(Petitioner)

Note:- Form to be compiled by Commercial Section, Shillong

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PART-I
FORM-5

ABSTRACT OF ADMITTED CAPITAL COST FOR EXISTING PROJECTS		
Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station : ASSAM GAS BASED POWER STATION		
Place (Region/District/State): North Eastern Region District: DIBRUGARH State: ASSAM		
Last date of order of Commision for the project	Date(DD-MM-YYYY)	21.12.2021
Reference of petition no. in which the above order was passed	Petition No.	298/GT/2019
Following details (whether admitted and / or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission :		
Capital cost (Rs . in lakh)		154,584.78
Amount of un-discharged liabilities included in above (& forming part of the admitted capital cost)		-
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		13.85 154570.93000 Cash basis
Gross Normative Debt (Rs . in lakh)		79,210.97
Cumulative Repayment (Rs . in lakh)		79,210.97
Net Normative Debt (Rs . in lakh)		-
Normative Equity (Rs . in lakh)		75,359.96
Cumulative Depreciation (Rs . in lakh)		123,736.71
Freehold land (Rs . in lakh)		150.17

(Petitioner)

PART-I
FORM-9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS ABASED POWER STATION
COD:	4H/1999
For Financial Year	2019-20

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis (in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)				
1	2	3	4	(5=3-4)	6	7	8	9
ADD CAP EXPENSES ADMITTED BY CERC								
1	Replacement of old Waukesha Gas Engine 12V275 GL of Unit-4 of GBS along with all auxiliaries like Air Cooled Heat Exchanger (ACHE), Fuel filter		0.00	1,961.29		25(2)(d)	JUSTIFICATION *The reasons for replacement of old Waukesha Gas Engine with new higher capacity AT 12V 275GL+ Waukesha Gas Engine with its auxiliaries and enhancement of Gas Compressor capacity were as follows:* *1. The Old Gas Engine was old and obsolete.* *2. There was a design problem for which the engine power was not sufficient to drive the compressor.* *3. To increase reliability of the Gas Booster Station (GBS) as well as the plant.* *4. The Old Gas Compressors were unable to deliver and 4 units were put into service to run all the 6 numbers of Gas Turbines. There are four numbers of Gas Booster Station in order service for supply pressurised gas to the Gas Turbines. As per design philosophy, 3 GBS units are in running condition to run 6 numbers of Gas Turbines.* REASON *FOR CARRYING OUT R&M OF 4TH GBS UNIT AND INCREASES OF COST:* *A.Replacement of Waukesha gas engine (4th GBS Unit).* *As per the approval of the CERC, the replacement of 3 (three) out of 4 (four) numbers of Gas Engines & modification of Gas Compressors were completed within 2013-15. The projected approved figure of Rs. 6158.38 lakhs for additional capitalization of 4 GBS units, which was allowed by CERC order dated 18.3.2015 in Petition No.41/GT/2015, was estimated based on past experience / budgetary estimates, and therefore, the final execution costs may vary. The actual cost incurred for replacement and modification of Gas Engines of 3 GBS units was Rs.5097.00 Lakhs and was completed during the year 2016-17. But, the projected addition of capitalization claimed and allowed by CERC vide order dated 15.02.2016 in petition no. 41/GT/2015 for 4th unit of GBS for Replacement of Gas Engine was Rs. 1647.30 Lakhs for the FY 2017-18. However, for the following reasons, the modification of 4th unit GBS could not be completed within 2017-18 and successfully completed during the FY 2018-20. The reasons were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. Considering the sufficient inventory levels of old Waukesha Gas Engines and Dresser Rand Gas Compressors, replacing the 4th unit in 2017-18 would have led to underutilized*	Ref no. NEEPCO/APDP/HPP/2018-19/W-10A/1115 dtd. 16/01/2019 & WO no. NEEPCO/A/M&S/105/2018-19/W-10A/1942 dtd. 24/01/2019 issued to M/S CEPL Mysuru-IV	1,958.36

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			DC included in cost	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis (in lakh)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
2	Revamping/modification of the Dresser-Rand Gas Compressor of GBS Unit-4		0.00	864.08		25(2)(d)	assets and inefficient use of capital. 3. Had all four units been replaced during the 2014-19 block, the capital cost of the 4th GBS unit would have been absorbed within the 2014-19 tariff period. However, by phasing the replacement, the cost impact of the additional capital infusion for the 4th unit shifts to the 2019-24 tariff block. 4. The phased replacement approach allows us to stagger the expenditure, avoiding a significant upfront financial burden and increases of tariff on beneficiaries. This segmented approach distributes the costs over time, reducing the financial strain. The PO & WO placed for modification of the 4th Gas Engine was placed in the year 2018 and job was successfully completed during the period 2019-20. The actual cost incurred for replacement of Mitsubishi Gas Engine and other auxiliaries for the 4th GBS unit was Rs.1951.21 Lakhs. i) Modification of Dresser Rand Gas Compressor (4th GBS Unit): As per the approval of the CERC, the replacement of 3 (three) out of 4 (four) numbers of Gas Engines & modification of Gas Compressors were completed within 2015-16. The projected approved figures of Rs. 3272.50 lakhs for additional capitalisation of 4 GBS units, which was allowed by CERC order dated 15.2.2016 in Petition No.43/GT/2015, was calculated based on cost experience / budgetary estimates, and therefore, the final execution costs may vary. The actual cost incurred for replacement and modification of Gas Compressors of 4 GBS units was Rs.2705.35 Lakhs and was completed during the year 2016-17. However, the projected additional capitalisation claimed and allowed by CERC vide order dated 15.02.2016 in petition no. 43/GT/2015 for modification of Gas Compressor unit Rs. 330.08 Lakhs for the FY 2017-18. However, for the following reasons, the modification of 4th unit GBS could not be completed within 2017-18 and successfully completed during the FY 2019-20. The reasons were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. Considering the sufficient inventory levels of old Mitsubishi Gas Engines and Dresser Rand Gas	PP-NEEPCO/GBPP/HQ/PP/2018-19/W-2/P41/192 dtd. 21/08/2018 & WO NEEPCO/MGBPP/HQ/W/2018-19/W-1843/P51 dtd. 19/11/2018 placed to M/S Dresser-Rand (India Private Limited (Annexure-B)	638.37
3	Up-gradation of 7200- series BENTELY-NEVADA make Vibration monitoring system of GT-1 and GT-2	110.00	0.00	103.00		25(2)(c)	VMS rack 7200 of M/S Bently-Nevada is obsolete. Spare support is not available. As such, upgradation of Vibration Monitoring System is essential for safety of the equipment. The OEM has issued obsolete certificate. Installation and commissioning in GTG Unit # 1 on 19/06/2019 and GTG Unit # 2 on 20/06/2019	PO: NEEPCO/AGBPP/W1/T-13(C)/2018-19/8158/155/419 dtd. 28/02/2019 placed to M/S Wipfornet Solution Pvt. Limited (Annexure-B)	105.56
4	Replacement of existing UPS with battery Bank for GT controllers and Online monitoring system.	-	0.00	119.78		25(2)(c)	1) Commission has already been admitted for the Year 2016-17 for an amount of Rs. 104.00 Lakhs and the works has already been completed in 2019-20. 2) The UPS system including Battery for GT controller and online monitoring system have commissioned in 1995. 3) As per guidelines of OEM the life periods of Tubular Type (Microscopic Rubber) battery is 10-14 years and Pasted Type (Microscopic Rubber) is 5-7 years. 4)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension.	NO ref. no. NEEPCO/AGBPP/PP14/10&M-01/2018-19/1822 dtd. 14/11/2018 placed to M/S Genser Maxwell Power Solution Pvt. Limited (Annexure-B)	104.00
	Total (A)		0.00	3,088.16					1,808.08
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Annual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
1	Construction of 20 MVAR Line Reactor		0.00	122.72		26(1)(a) & 26(1)(d)	As per MOM between NERPC/NERLDC and NEEPCO for system stability of NER grid.	Deposit Work Agreement between NEEPCO & PGCIL dtd. 28/03/2012 (Annexure-5)	
2	Replacement of Tabular Lead Acid Battery 48 V TES (OPZS) 500AH of PLCC system		0.00	30.21		25(2)(c)	1)The 48 V DC Battery bank and Calzyno make battery Charger for PLCC had installed initially by PGCIL which was in service since commissioning of the plant (1996). Due to deteriorated condition of the 48 Volts Battery bank, it was advised in the 134th CCC meeting for replacement of the 48 Volts Battery bank. Moreover, the OEM suggested for replacement / upgradation of the same. 2) As per CEA guidelines issued vide no: 239/MoC/TPR/WCEA/2015/956 dtd.27.08.2015, units above 15 years old qualify for Mid Life R&M works for Life Extension. Accordingly, it is necessary for replacement old battery bank for reliable operation of the system.	PO ref. no. NEEPCO/WGBP/PMM/OM/M-07/2017-18/RWB/12205/651 dtd. 06/09/2018 placed on M/S Nemtup Solar Corporation (Annexure-6)	
3	Upgradation of protection system by replacing existing electro-mragnatic relays with numerical relays for 6.6 KV OCB & OCC Bus and fire fighting pump house control panel.		0.00	16.79		25(2)(c)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850(relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	PO ref. No. NEEPCO/WGBP/PMM/OM/M-12/18-19/187 dtd. 14/09/2018 placed to M/S Pyrolle Equipment Inc. (Industries Trading) (Annexure-7)	
4	Installation of External GPS system for time synchronization at RTU		0.00	2.81		25(1)(d)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850(relevant standards. 2) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 3) It is necessary for time synchronization for the safety and security of grid. 4) DPR/documentry evidence for life extension has already submitted.	PO ref. No. NEEPCO/WGBP/PMM/OM/M-02/RWB/12470/18-28/9228 dtd. 28/09/2018 placed to M/S SCOPE T&M Private Limited, Mumbai. (Annexure-8)	
5	Replacement of Digital Voltage Regulator(DAVR) FOR STG II		0.00	18.35		25(2)(c)	The existing Unitrol-M AVR system of ABB was obsolete. The Spare support of the old system was not available. As such, to make the system reliable and avoid outages due to non- availability of the spares, the system is replaced with new DAVR. The OEM has issued obsolete certificate	PO ref. no. NEEPCO/WGBP/CE(T)/T-52/2018-19/RWB/11 5/298 dtd. 22/11/2018 order placed to M/S ABB India Limited. (Annexure-9)	

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			DC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lacs)					
1	2	3	4	(5=3-4)	6	7	8		9
B	Vibration Monitoring System STG-I and STG#3		0.06	129.17		25(3)(ii)	VMS rack 9300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	#0 ref. no. NTPC/CO/GSP/CB1/T-52/2018-19/9KN01/25/395 dtd. 22/11/2018 & 902 ref. no. NTPC/CO/GSP/CB1/T-52/2018-19/334 dtd. 27/12/2018. Order placed to M/S GE Bently Nevada Pvt. Limited. /Annexure-93/	
				922.04					
	Total (A)			3,390.19					
	Adjustments								
	Net Additional Capitalisation			3,390.19					
	Add Cap for WAROI			125.50					
	MAJOR CAPITALISED SPARES								
1	MAJOR CAPITALISED SPARES			1,186.09					-
	Total (C)			1,186.09					1,806.06
	Grand Total (A+B)			4,699.29					

In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past,fill column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority)(Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of tariff period 2019-24.

In case of de- capitalisation of assets separate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of such assets to be furnished at column 5.Where de-caps are on estimated basis thesame to be shown separately.

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original value of such asset to be shown at col. 5. And impaired value if any , year of its capitalisation to be mentioned at column 6.

Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalisation of that particular asset.

Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and thebenefits accruing to the beneficiaries.

In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated separately.e.g. Rotor-50 Crs, Initial spares -5Crs

As per form 9 (B)	4,585.28
Exclusion as per form K@	714.90
Decapitalisation (D)	1,175.17
Reversal I. E. I	-
Total as per 9 (B)	4,129.01

Capital spares capitalised in Books but not consumed	1,785.08
Total as per 9 (B)	5,911.10
Change in Gross Block in Books	5,911.49

(Petitioner)

2337

PART-I
FORM-9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
COD :	4/7/1999
For Financial Year	2020-21

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.2	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									
1	Replacement of old existing hydraulic operated Circuit Breaker with new ABB make spring operated SF6 of Circuit Breaker (for 8 nos. of CB)		0.00	162.78		25(2)(f)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.8.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 Kv SF6 CB have commissioned in 1995 and already cross 23 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-SAVT). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted	PO ref. no. NEEPCO/WRM/PM(M)/CB&R-02/15-20/155 dtd. 12/08/2020 placed to M/S ABB India Limited (Annexure-17)	
2	Replacement of Fill Packs of Cooling Tower		0.00	91.54		25(2)(h)	Packed fill packs of cooling tower was replaced to improve water distribution as well as to improve cooling tower efficiency. Improvement of cooling tower efficiency improves condenser performance and thereby efficiency of Steam turbine improves.	WO ref. no. NEEPCO/AGBP/STR&Civil/Work-08/2020-21/340 dtd. 08/09/2020 placed to M/S Cool&Modulation Pvt. Limited (Annexure-18)	
3	HMI upgradation & Remastering including Custom duty		0.00	114.94		25(2)(l)	Server cum HMI of GT#5 was based on windows-XP and of GT#6 was windows-2007. Service support and Anti-virus update for Windows-XP & 2007 was not available. HMI of GT#5 is replaced with windows-10 and GT#6 is upgraded to windows-10.	PO ref. no. NEEPCO/WRM/PM(M)/2020-21/W-11/81/709 dtd. 28/08/2020 & WO ref. no. NEEPCO/AGBP/M&E/2020-21/W-11/81/713 dtd. 29/08/2020 placed to M/S B.H.E.L. Service Ltd(Hardwar Services Pvt. Limited (Annexure-19)	
4	Upgradation of HMI Mark-VIe Control system		0.00	9.44		25(2)(l)			
5	Vibration Monitoring & Temperature Monitoring System ST#2 (Spares)		0.00	59.72		25(2)(c)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack.	PO ref. no. NEEPCO/AGBP/C&I/T-43/2019-20/Work/1125/DPR dtd. 14/01/2020 placed to M/S GE Oil & Gas Pvt. India Limited (Annexure-15)	
6	Vibration Monitoring & Temperature Monitoring System ST#2 (Service)		0.00	5.09		25(2)(c)		WO ref. no. NEEPCO/AGBP/C&I/T-43/2019-20/1312 dtd. 13/10/2020 placed to M/S GE Oil & Gas Pvt. India Limited (Annexure-16)	

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC (Included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (In Lakhs)					
7	Technical Advisory Services for MI with LOB and AGB inspection of BHEL supplied GT U # 5		0.00	82.41			Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	(a) ref no. NEEPCO/WGBP/HQ/O/18-20/MI/BHEL/2017 dtd. 22/10/2020 placed to M/S BHEL(Annexure-27)	
8	Technical Advisory Services for MI with LOB, AGB inspection exhaust plenum repair of BHEL supplied GT U # 6		0.00	148.49			Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	(a) ref no. NEEPCO/WGBP/HQ/O/20-21/MI/BHEL/2067 dtd. 26/10/2020 placed to M/S BHEL(Annexure-28)	
Total(A)			0.00	674.92					
Add Gas for WAROI				-					
MAJOR CAPITALISED SPARES									
1	MAJOR CAPITALISED SPARES		0.00	2830.93					
Total (B)			-	2,830.93					
Grand Total (A+B)			-	3,505.84					

In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past,fill column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority).Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of tariff period 2019-24.

In case of de- capitalisation of assets separate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of such assets to be furnished at column 8.Where de-caps are on estimated basis,same to be shown separately.

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original value of such asset to be shown at col. 5. And accrued value if any , year of its capitalisation to be mentioned at column 9.

Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalisation of that particular asset.

For the form in chronological order year wise along with detailed justification clearly bringing out the necessity and the benefits accruing to the beneficiaries

In case initial spares are purchased along with any equipment, then the cost of such spares also to be indicated seperately,e.g. Motor- 80 Crs, Initial spares -1 Crs

As per form 4 (B)	3,505.84
Reduction as per form 4 (C)	1,477.84
Decapitalization (D)	614.80
Reversal (E)	-
Total as per books	4,368.68

[illegible]	1,786.08
Total as per 5 (R)	2,582.60
Change in Gross block in Books	2,582.60

This is negative as this was capitalised in Books in FY-2019-20 but used in FY-2020-21

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FORM-5

Year wise Statement of Addition of Capitalisable after 2009

Name of the Petitioner:	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station:	RANGANADI HEP (3x135 MW)
Date:	01/01/2021
For FINANCIAL YEAR:	2017-18

Sl. no.	Head of Work/Equipment	Add/ Deleted (Used/Projected)			IDC (w/off included in col.3)	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any	Division	Commercial Comments
		Actual expenditure (w/o)	Un-discharged Liability included in col.3	Cash (w/o in Lakhs)						
1	2	3	4	5=(3-4)	6	7	8	9		
ADD CAP EXPENDITURE ADMITTED BY CERC										
	No Job									
ADD CAP EXPENDITURE NOT ADMITTED BY CERC BUT IS CLAIMED AS PART OF NORMS OF INTEREST ON PLANT UPRATEDNESS AND EXTENSION OF LIFE										
1	Procurement of Transformer Oil 10000/Lit plant of capacity 10000Lit/H		0.00	17.04		25(2)(ii)	1) The old transformer oil filtration plants against different rating/capacity for total 21 nos transformer have been in service since commissioning (1989) of the Plant and have already been crossed 25 years. Life as per CEA guidelines issued vide no. 207/RA/T/TRANS/DAGO/2005 dtd 27.08.2015 , units above 15 years old quality for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Ranganadi Plant has already been procured for filtration of Transformer oil necessary to ensure healthiness of transformer.	RC no.xxx, xxx/CERC/xxx/xxx/RANGANADI PLANT/UPRATEDNESS AND EXTENSION OF LIFE/xxxx/xxxx/xxx (as per annexure-IX)		PEM	
2	Transformer filtration plant of capacity 10000Lit/H		0.00	4.55		25(2)(ii)	1) The old transformer oil filtration plants against different rating/capacity for total 21 nos transformer have been in service since commissioning (1989) of the Plant and have already been crossed 25 years. Life as per CEA guidelines issued vide no. 207/RA/T/TRANS/DAGO/2005 dtd 27.08.2015 , units above 15 years old quality for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Ranganadi Plant has already been procured for filtration of Transformer oil necessary to ensure healthiness of transformer.			PEM	
3	Bridge chamber was mounted type Transformer Oil Storage tank		0.00	7.46		25(2)(ii)	1) The old transformer oil filtration plants against different rating/capacity for total 21 nos transformer have been in service since commissioning (1989) of the Plant and have already been crossed 25 years. This is a part of Filtration Plant and necessity for DMA Aux. Transformer and same has already been procured for filtration of Transformer oil.			PEM	
4	Replacement of old existing hydraulic operated CB with new ABB make spring operated CB of Circuit Breaker (for 3 nos. of CB)		0.00	66.06		25(2)(i)	1) As per CEA guidelines issued vide no. 207/RA/T/TRANS/DAGO/5968 dtd 27.08.2015 , units above 15 years old quality for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) quality for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 kV SF6 CB have commissioned in 1989 and already across 25 years. Moreover, SF6 CB have encountered their inability for supply of spares for old hydraulic operated SF6 CB (Type-BAP1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessary to replace at the earliest possible time. Accordingly, the works have already been completed. 3) Documentary evidence for the expenditure has already submitted.	RC no.xxx, xxx/CERC/xxx/xxx/RANGANADI PLANT/UPRATEDNESS AND EXTENSION OF LIFE/xxxx/xxxx/xxx (as per annexure-IX)		PEM	Documentary evidence required
5	Replacement of old existing hydraulic operated CB with new ABB make spring operated SF6 of Circuit Breaker (for 3 nos. of CB)		0.00	49.71		25(2)(i)	1) As per CEA guidelines issued vide no. 207/RA/T/TRANS/DAGO/5968 dtd 27.08.2015 , units above 15 years old quality for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) quality for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 kV SF6 CB have commissioned in 1989 and already across 25 years. Moreover, SF6 CB have encountered their inability for supply of spares for old hydraulic operated SF6 CB (Type-BAP1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessary to replace at the earliest possible time. Accordingly, the works have already been completed. 3) Documentary evidence for the expenditure has already submitted.	RC no.xxx, xxx/CERC/xxx/xxx/RANGANADI PLANT/UPRATEDNESS AND EXTENSION OF LIFE/xxxx/xxxx/xxx (as per annexure-IX)		PEM	Documentary evidence required
6	DIGITAL VOLTAGE REGULATOR DAVR (qty 1 set in R & B)		0.00	13.41		25(2)(i)	Under M.C/K supply of AVR is unavailable. Spare report is not available. Proposed with DAVR of GT Unit #1	RC no.xxx, xxx/CERC/xxx/xxx/RANGANADI PLANT/UPRATEDNESS AND EXTENSION OF LIFE/xxxx/xxxx/xxx (as per annexure-IX)		GA	Clearance certificate required
			0.00	1.19		25(2)(i)	Service tax for the above				Clearance certificate required
7			0.00	20.59		25(2)(i)	Unpaid M.C/K supply of AVR is unavailable. Spare report is not available. Proposed with DAVR of GT Unit #1				Clearance certificate required
			0.00	1.03		25(2)(i)	Service tax for the above				Clearance certificate required

Sl. No	Head of Work/Asset/Service	ADE Claimed (Actual/Projected)			IDC included in col 5	Regulatory under which claimed	Justification		Admitted Cost by the Commission, if any	Decision	Commercial Comments
		Amount Incurred (in Lakh)	Un-discharged Liability included in col 3	Gross Block (in Lakhs)							
1	2	3	4	(3+4=5)	6	7	8		9		
6	REPLACEMENT & INSTALLATION OF CUMMINS ENGINES FOR GT UNITS 5 (INSTALLATION)		0.00	55.87		2022-23	Due to closure of Clerk Case Lack Oil with Diesel, the major components like wrist pin, piston etc. of the Working Diesel Engine got seized. The engine was 25 years old and the repair cost of the old engine is high. As such, it was decided to procure 1 (one) new Working Diesel Engine.			97% Loss	
9	Upgradation of Centralized AC system by replacing 3 numbers of 150TR water cooled reciprocating chiller units by high efficiency 300TR water cooled screw chiller along with Cooling Towers		0.00	50.00		2022-23	The reciprocating type chillers were already crossed 25 years of operation. Due to ageing problem, the performance & efficiency was decreasing day-by-day and hence it was becoming increasingly difficult to procure spares. Moreover, the OEM was unable to supply various spares for maintenance due to obsolence of the chillers. Hence, the Central AC plant was upgraded with higher capacity Screw type chillers, which are more efficient and reliable.			94%	It is MBCIA type work.
10	Medium Volt Electrical Control unit(MVECU) (415 KV with 167 double panel house		0.00	10.40		2022-23	This work was replacement work of the old apparatus. The part of the 11 kV Hydro line was replaced for protection and reliability of the line.			100%	As applicable, whether the work is replacement work of the old asset so that it can be claimed under 35(3)(d)?
	Total (A)		-	115.27							
	Add Cost for AVARD			-							
MAJOR CAPITAL (SEE SPARES)											
1	MAJOR CAPITAL (SS) SPARES		0.00	108.70							
	Total (B)		-	108.70							
	Grand Total (A+B)			223.97							

In case the projects has been completed and cost has already been capitalized under any tariff notification(s) in the past 03 (three) years giving the year as applicable for the purposes of tariff submission already moved by Name of the auditor (Enclosed copy of the tariff Order)

The above information needs to be furnished separately for each year/period of each period 2019-24.

In case of de- capitalization of assets, details to be furnished as per Form 7.2.5 and a Portion the original book value and year of capitalization of such assets to be furnished in column 6 While de-capitalizing an old/previous asset, reference to the orders/ regulations

Where any asset is removed/ disposed/de-commissioned during that year and original amount of such asset to be shown at sl.no. 2, and proceeds under if any , year of its

capitalization to be specified at col.no 6

Justification against each asset of capitalization should be specific to regulations under which asset has been made , and the necessity of capitalization of that particular asset.

If the claim is allowed/ admitted under any head, given with detailed justification clearly bringing out the necessity and irreversibility pertaining to the petitioner(s).

In case initial spares are claimed along with the original project, then the cost of such spares should be indicated separately as per Regulations, with proper justification.

As per Form 5 (9)	108.70
Recovery as per Para 8	108.70
Transaction Fee (2)	129.57
Interest (-) (-)	-
Total as per Invoice	367.93

Capital cost as claimed	-
Taxes as per 2 (9)	367.93
Charges on Cash Invoice	367.93

(Add/Delete)

PART-I
FORM-9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
COD:	01.7.99
For Financial Year	2024-25

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)				Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Amount basis (in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)	(DC included in col.3				
1	2	3	4	(5=3-4)	6	7	8		9
ADD CAP EXPENSES ADMITTED BY CERC									
1	Comprehensive Rotor Inspection (CRI) and Compressor Rotor Refurbishment (CRR) of MHI Gas Turbine Unit-1	0				24(2)(b)	Due to delay for covid situation, the job could not be able to completed within the financial year. The job is completed in the month of July-Aug, 2024 i.e. FY 2024-25. So, the CRR / CRI of GT rotor of UNIT # 01, which is installed at GT Unit # 1, shall be submitted for the period 2024-29.	P/A & AO no. NEEPCO/ABB/AGBPP/2020-21/Comml/01/1609/2020-21/Comml/01/1609 dtd. 28/09/2020 issued by M/S MC Japan (Annexure-30)	1,991.85
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTERSST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									
1	CRR & CRI OF MHI GAS TURBINECOMPRESSOR ROTOR(REPLRESHMENT) original rotor of unit # 3 and installed at GT unit # 2		0.00	2,491.93		25(2)(d)	Details of CRR & CRI As per recommendation of OEM, M/s Mitsubishi Corporation, Japan, either CRR-CRI/compressor rotor refurbishment and comprehensive Rotor inspection/ replacement of turbine rotor of Gas Turbine is necessary to obtain the desired output of the turbine after 1 lakh fired hours. This will increase the life of the GT. Accordingly, NEEPCO had placed an Order No. NEEPCO/ABB/AGBPP/CD-24/99-BX/1286 dated 28.05.13 for CRR & CRI of three M/S supplied Gas Turbine Rotors along with procurement of one new Gas Turbine Rotor in 2013. The new Gas Turbine Rotor was installed in Gas Turbine # 4 in July' 2015 and the original Rotor removed from Gas Turbine Unit # 4 was sent to Japan for CRR and CRI in Aug' 2015 and it was received in Kopar in October' 2015. After CRR and CRI, the Rotor was installed in Gas Turbine # 3 in June – July 2017. The Rotor removed from Gas Turbine Unit # 3 was sent to Japan for CRR & CRI in Dec' 2017 and the Rotor was received in Japan in Feb' 2018. After CRR & CRI in Japan the refurbished Rotor was received in May' 2020 and it was installed in Gas Turbine Unit # 2 in March – April' 2021. The original Rotor from the Unit # 2 was sent to Japan for CRR & CRI in July' 2020. After CRR & CRI, the refurbished Rotor was received at AGBPP in May' 2024 and it was installed in Gas Turbine Unit # 1 in July – August' 2024. The Rotor coming out from the Unit # 1 has been preserved in corrosion. As such, the decrease is shown in July – August' 2024.	P/A & AO no. NEEPCO/ABB/AGBPP/2013-14/Comml/02/0245 dtd. 29/05/2013 issued by M/S MC Japan (Annexure-31)	
2	Generator Overhauling of MHI GTG Unit # 2 alongwith CRR/CRI works		0.00	114.83		25(2)(d)	Gas Turbine generator and its spares have definite life. For sustained performance of the Gas Turbine Generator, it is necessary to carry out Major Overhauling of the Generator under technical advisory of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine Generator of MHI Gas Turbine is extended.	P/A & AO of M/S MHI Corporation Japan no. NEEPCO/AGBPP/MHI/2021-22/CBM-05/780 dtd. 12/10/2021& amendment vide no. NEEPCO/AGBPP/MHI/2021-22/CBM-05/1178 dtd. 16/05/2022 (Annexure-29)	

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			DC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis (in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8		9
3	Upgradation of Electro-magnetic relays to Numerical Relay of Gas Turbine Generators		0.00	38.00		35(2)(c) & 25(1)(d)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure reliability, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no.CEA/TETD/DP/PSP/01/2010 dtd. 20/8/2010 under circular No. 48/15, all protection relays shall be numerical type and communication protocol shall be as per IEC-61850(relevant standards). 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) OP/Reassessment evidence for the extension has already submitted.	RO ref. no. NHPC/CO/MM/ACE/JT-10/2021-22/OM/1 dtd. 20/05/2021 issued to M/S Evelin Engineering, Annexure-10	
4	Upgradation of EMS (ABT) Energy Management system software with high-end server		0.00	28.74		35(2)(b)	Server cum HMI of the system was windows server-2012 & ABT software was PME-2008 of Schneider. Server system is upgraded to windows-2016 & ABT software is PME-2020 of Schneider.	RO ref. no. NHPC/CO/MM/ACE/JT-10/2021-22/OM/2 dtd. 20/05/2021 issued to M/S Secure Techno Pvt. Limited, Annexure-11	
5	Upgradation of DCS system of Module 1 & Governor of STG 1		0.00	668.21		35(2)(c)	PLC & ABB DCS completed 25 yr operation & spare support was not available. Trouble shooting was more difficult due to communication failure.	RO ref. no. NHPC/CO/MM/ACE/JT-10/2021-22/OM/3 dtd. 20/05/2021 issued to M/S ABB India Limited, Annexure-12	
6	Upgradation of PLC Based Automation system of DM Plant		0.00	36.55		35(2)(c)	Already (Rockwell PLC, SLC-500 completed 25 yr operation. Spare support was not available.	RO ref. no. NHPC/CO/MM/ACE/JT-10/2021-22/OM dtd. 19/05/2021 issued to M/S Siemens India Pvt. Limited, Annexure-13	
7	Technical Advisory Service by MHI for GT#2		0.00	291.21			Gas Turbine and its spares have certain life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisory of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	RO ref. no. NHPC/CO/MM/ACE/JT-10/2019-20/OM/597 dtd. 12/03/2020 issued to M/S MHI Japan (Annexure-8A)	
8	Renovation of existing CO2 flooding system of GT#3 & 4		0.00	58.40		35(2)(a)	The Power Station has already crossed 28 years of operation. The CO2 system is one of the vital integral components for safety of the equipment as well as Plant. CO2 Flooding system of MHI Gas Turbines Unit # 1,2,3 & 4 were originally installed by M/S CHUBB FIRE Company, UK during commissioning of MHI make Gas Turbine under package of M/s, Japan and since then no major modification / repairing was taken place. The Systems were experiencing malfunctions, and spare parts were no longer available in the market. Despite some correspondence, CHUBB FIRE Company did not responded regarding spares and health check-ups. Furthermore, MHI had expressed their inability to provide spares and services (document enclosed). To address these issues, M/S Premiere A Associates has been awarded the contract for: - Renewal of the CO2 Flooding System - Automation of the system - Maximum utilization of existing system components	NO objection to M/S Premiere A Associates, Proforma no. NHPC/CO/MM/ACE/JT-10/Proforma/2019-20/OM dtd. 11/05/2020 (Annexure-8B)	

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC Included in col.5	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3+4)	6	7	8		9
9	[ITC] at 400 kVA, 11/0.433 KV 3 phase distribution transformer for mpha pump house		0.00	11.94		25(2)(i)	The life of the transformer has already completed.	appr.Annexure no. 6(Mail-01102022 dtd.04.11.2022 showing MG with Power Transform-3rd	
	Total(A)		-	3,754.78					1,551.80
	Add Cap for WARDI			-					
	MAJOR CAPITALISED SPARES								
1	MAJOR CAPITALISED SPARES		0.00	201.49					
	Total (B)		-	201.49					-
	Grand Total (A+B)			3,956.27					1,551.80

In case the project has been completed and cost has already been admitted under any tariff notified order, in the cost (d column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority)Enclosed copy of the tariff Order.

The above information needs to be furnished separately for each year/block of tariff period 2019-24.

In case of de- capitalisation or decom separate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of such assets to be furnished at column 8.Where de-capt are on estimated basis in case of de- capitalisation or decom separate details to be furnished at column 1,2,3 and 4.Further the original book value and year of capitalisation of such assets to be shown at col. 8. Acc impaired value if any , year of its capitalisation to be mentioned at column 8.

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original value of such asset to be shown at col. 3. Acc impaired value if any , year of its capitalisation to be mentioned at column 8.

Justification against each asset of capitalisation should be specific to regulations under which claim has been made and the necessity of capitalisation of that particular asset.

Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and thebenefits accruing to the beneficiaries.

In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated separately,e.g. Rotor- 50 Cos, Initial spares -5Cos.

As per form 8 (E)	3,956.27
Execution as per form K (I)	1,040.77
Decapitalisation (D)	310.15
Reversal (E)	-
Total as per books	3,236.89
Change in Gross block in books	6,236.89

(Petitioner)

PART-I
FORM-9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner:	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station:	AIZWAL GAS BASED POWER STATION
COD:	4/1/1999
For Financial Year:	2023-24

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			Inc. included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis (in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8	9	
ADD CAP EXPENSES ADMITTED BY CERC									
	Nil Job								
ADD CAP EXPENSES NOT ADMITTED BY CERC BUT INCURRED IN THE INTEREST OF PLANT EFFICIENCY AND EXTENSION OF LIFE									
1	REPLACEMENT OF OLD EXISTING 245 KV CURRENT TTRANFORMER OF 220 KV SWITCHYARD		0.00	232.93		25(1)(a)	1) As per "Central Electricity Authority (Installation and operation of Meters) Regulations, 2006" and subsequent amendment, the accuracy class for tariff metering core shall be equal to 0.2S or better, PS for differential protection and 5P20 for other protection. The notifications of CEA issued vide no: CEA/GO-13-153/2018-DPR Division dtd. 22/10/2018 may kindly be referred. 2) The accuracy class of our existing old BHEL make CT's for metering core is 0.5 and already crossed more than 25 years. 3) Moreover, as per CEA guidelines issued vide no: 2/Guidec-ITPRM/CEA/2015/665 dtd 27.03.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. The copy of CEA Regulations 2006 and guidelines are enclosed for references.	PO ref. no. NEEPCO/AM/SP/PAM/BAY-12/2020-21/01 dtd. 31/03/2021 placed to M/S Pantho Engineering Industries Limited, Tinsukia and PO ref. No. NEEPCO/CC/SP/PAM/BAY-12/2022-23/982 dtd. 31/01/2023 placed to M/S Inventronics Electrical Pvt. Limited, Ghaziabad. (Annexure-37)	
2	Supply Installation Testing &Commissioning of Standalone Disturbance Recorder & Event Logger		0.00	58.75		25(1)(a)	1) As per Central Electricity Authority [Grid Standards] Regulations 2010 issued vide no CEA/TETD/MP/TR/DIL/2015 dtd. 25/6/2010 under clause No. 45(15), all protection relay shall be numerical type and communication protocol shall be as per IEC-61850relevant standards. "All operational data, including disturbance recorder, event logger reports, for analysing the grid incidents and grid disturbance, any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 2) Moreover, as per CERC regulations "Recording Instruments such as Data Acquisition System/ Disturbance Recorder/Event Logging Facilities/Fault Locator shall be provided and shall always be kept in working condition in the ISTS for recording of dynamic performance of the system. All users, STUs and CTU shall provide all the inputs to recording instruments and shall always keep them in working condition." As such to comply with the CERC regulations, order has already been placed.	PO ref. no. NEEPCO/WM/SP/PAM/BAY-12/2020-21/01 dtd. 31/03/2021 & NEEPCO/CC/SP/PAM/BAY-12/2022-23/981 dtd. 27/09/2022 placed to M/S Pantho Engineering Industries, Tinsukia (Annexure-38)	
3	Upgradation of SVAB System of Module1_STG#1		0.00	231.74		25(2)(a)	System has completed 25-yr and not in operation due to obsolete analyzer and other components.	PO NEEPCO/M/GSPS/CS/PT-48/2022-23/95 dtd. 25/07/2022 placed to M/S TJA Engineering & Trading Co. (Annexure-40)	

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8	9	
4	DID of GT# 4		0.00	961.49		9(1)(b)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	PC ref. no. NEEPCO/CHQ/BPHO/P/2022-23/W-9(B)/313 dtd. 30/11/2022 placed to M/S SGSTS (Annexure-41)	
5	Renovation of existing CO2 flooding system of GT#1 & 2		0.00	66.40		25(2)(a)	The Power station has already crossed 25 years of operation. The CO2 system is one of the vital integral components for safety of the equipment as well as Plant. CO2 Flooding system of M/S Gas Turbines Unit # 1,2,3 & 4 were originally installed by M/S CHUBB FIRE Company, UK during commissioning of M/S Hitachi Gas Turbine units under technology of M/S Hitachi, Japan and since then no major modification / repairing was taken place. The systems were experiencing malfunctions, and spare parts were no longer available in the market. Despite correspondence, CHUBB FIRE Company did not responded regarding spares and health check-ups. Furthermore, M/S Hitachi had expressed their inability to provide spares and services (copy/ies enclosed).To address these issues, M/S Pranjana & Associates has been awarded the contract for: - Renewal of the CO2 Flooding System - Automation of the system - Maximum utilization of existing system components	PO placed to M/S Pranjana & Associates, Guwahati vide ref. no. NEEPCO/AP&M/P&A/2017-18/Vol-II/3/2021-22/799 dtd. 31/01/2022 (Annexure-42)	
6	Supply, installation, testing & commissioning of 75 KLD STP		0.00	43.77		35(1)(f)	Installation of STP in a power house is as per statutory requirement.	The PO was placed on M/S Eco Clean vide Advt.enquiry no.GEN/CIVIL/Tezpur/2020/4539 dtd. 09/06/2021 (Annexure-43)	
7	DID of GT# 5		0.00	145.00		35(1)(b)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	PC ref. no. NEEPCO/CHQ/BPHO/P/2022-23/W-9(B)/720 dtd. 09/12/2022 placed to M/S SGSTS (Annexure-44)	
8	M I & OH of Generator & Exciter of GTG U # 3		0.00	77.00			The overhauling of Generator & Exciter was carried out as per the guidelines of OEM for life extension of the equipment. Moreover, the stator winding temperature was observed in higher side.	WO ref. no. NEEPCO/CHQ/BPHO/CIVIL/W-26/2021-22/1651 dtd. 25/03/2022 placed to M/S BHEL (Annexure-45)	
	Total(A)		-	1,157.09				-	-
	Add Cap for WAROI			40.77					398.00
	MAJOR CAPITALISED SPARES								
1	MAJOR CAPITALISED SPARES		0.00	716.38					
	Total (B)		-	716.38				-	

Sl. No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC (sought in col.3	Regulation under which claimed	Justification		Admitted Cost by the Commission, if any
		Accrual basis (in lacs)	Un-discharged Liability included in col.3	Cash basis (in Lakhs)					
1	2	3	4	(5=3-4)	6	7	8	9	
Grand Total (A+B)				1,892.47					

In case the project has been completed and cost has already been admitted under any tariff notification(s) in the past,fill column 9 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority)/Pertinent order of the tariff Order).

The above information needs to be furnished separately for each year/period of tariff period 2019-24.

In case of de- capitalisation of assets separate details to be furnished at column 1,2,3 and 4. Further the original book value and year of capitalisation of such assets to be furnished at column 6.Where de-caps are an estimated basis thesame to be shown separately.

Where any asset is rendered unserviceable the same shall be treated as de-capitalised during that year and original value of such asset to be shown at col. 3. And imparied value if any , year of its capitalisation to be mentioned at column 6.

Justification against each asset of capitalisation should be applicable to regulations under which claim has been made and the necessity of capitalisation of that asset under consn.

Petitioner to furnish year wise along with detailed justification clearly bringing out the necessity and indispensible accruing to the beneficiaries.

In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated seperately e.g. Rotor- 53 Crs, Initial spares -5Crs.

As per form 9 (B)	1,892.47
Exclusion as per form K (B	100.00
Decapitalisation (D)	440.61
Reversal (E)	-
Total as per 9A	1,892.42

Capital spares capitalised in Books but	-573.05
Total as per 9 (B)	1,035.87
Change in Gross block in Books	1,071.33

-11.46

This is negative as this was capitalised in Books in FY-2022-23 but used in FY-2023-24

(Petitioner)

PART-I
FORM-10

Financing of Additional Capitalisation

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State) :	North Eastern Region District: DIBRUGARH State: ASSAM
Date of Commercial Operation :	4/1/1999

(Amount in Rs Lakh)

	Actual					Admitted				
Financial Year (Starting from COD)^1	Year 1	Year 2	Year 3	Year 4	Year 5 & so on	Year 1	Year 2	Year 3	Year 4	Year 5 & so on
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipment	NOT APPLICABLE									
Financing Details										
Loan 1										
Loan 2										
Total Loan										
Equity										
Internal Resources										
Others (pl. specify)										
Total										

Note :

1. Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent Financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per Form 7 or 8 whichever is relevant.

Petitioner

NOT APPLICABLE

PART-I
FORM-17

CALCULATION OF DEPRECIATION

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.						
Name of the Generating Station :	ASSAM GAS BASED POWER STATION						
Place (Region/District/State) :	North Eastern Region District: DIBRUGARH State: ASSAM						
Date of Commercial Operation :	4/1/1999						

Note :

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.

(Petitioner)

PART-I
FORM-12

STATEMENT OF DEPRECIATION

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

(Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Remarks
Opening Capital Cost	154,867.66	154,570.93	156,792.07	156,656.35	158,507.90	161,968.78	
Closing Capital Cost	154,570.93	156,792.07	156,656.35	158,507.90	161,968.78	162,690.27	
Average Capital Cost	154,719.30	155,681.50	156,824.21	157,582.12	160,238.34	162,329.53	
Land Value	150.17	150.17	150.17	150.17	150.17	150.17	
Rate of Depreciation%							
Gross Block excluding land	**154,569.13**	**155,531.33**	**156,674.04**	**157,531.95**	**160,088.17**	**162,179.36**	
Depreciable Value	139,112.21	139,978.20	141,006.64	141,778.76	144,079.36	145,961.42	
Balance useful life at the beginning of the period	5.92	4.92	3.92	2.92	1.92	0.92	
Cumulative Depreciation upto previous year	121,117.33	123,736.72	127,037.83	130,601.30	134,429.20	139,455.32	
Remaining Depreciable Value	17,994.88	16,241.48	13,968.80	11,177.46	9,650.16	6,506.10	
Depreciation (for the period)	**3,039.68**	**3,301.11**	**3,563.47**	**3,827.90**	**5,026.12**	**7,071.85**	
Depreciation (Annualized)	**3,039.68**	**3,301.11**	**3,563.47**	**3,827.90**	**5,026.12**	**7,071.85**	
Cumulative Depreciation at the end of the period	124,157.01	127,037.83	130,601.30	134,429.20	139,455.32	146,527.17	
Less: Cumulative depreciation adjustment on account of undischarged liabilities deducted as on 01.04.2009/Station COD	-	-	-	-	-	-	
Less: Cumulative depreciation adjustment on account of decapitalization	420.29						
Net Cumulative Depreciation at the end of the period	**123,736.72**	**127,037.83**	**130,601.30**	**134,429.20**	**139,455.32**	**146,527.17**	

1. In case of details of FERV, give information for the applicable period.

(Petitioner)

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PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges1

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : ASSAM GAS BASED POWER PLANT

Sl	Month	Unit	2018-2019					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	42620.24		42013.17		43358.02	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	42620.24		42013.17		43358.02	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	42620.24		42013.17		43358.02	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	310130180		323545857		325786552	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	310130180		323545857		325786552	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	**(Rs.)**	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+13)**	**(Rs.)**	**310130180**		**323545857**		**325786552**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	7276.59		7701.06		7513.87	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	8906.000		9191.000		9185.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	**7496.304**					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9094.064477					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

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PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.							
Name of the Generating Station :	ASSAM GAS BASED POWER STATION							
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM							
Sl	Month	Unit	2019-2020					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	35920.95		45810.33		36954.16	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	35920.95		45810.33		36954.16	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	35920.95		45810.33		36954.16	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	238264768		337254615		268770187	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	238264768		337254615		268770187	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	**(Rs.)**	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+13)**	**(Rs.)**	**238264768**		**337254615**		**268770187**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	6633.08		7361.98		7273.07	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9186.000		9151.000		9224.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	7113.674					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9187.348995					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

Sl	Month	Unit	2020-2021					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	41808.61		38070.40		42087.62	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	41808.61		38070.40		42087.62	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	41808.61		38070.40		42087.62	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	174784232		155635303		178440918	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	174784232		155635303		178440918	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	**(Rs.)**	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+13)**	**(Rs.)**	**174784232**		**155635303**		**178440918**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	4180.58		4088.09		4239.75	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9169.000		9157.000		9157.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	**4172.129**					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9167.969192					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

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PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

Sl	Month	Unit	2021-2022					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	41935.74		42437.94		45472.10	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	41935.74		42437.94		45472.10	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	41935.74		42437.94		45472.10	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	275862608		288497849		314090067	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	275862608		288497849		314090067	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	(Rs.)	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+13)**	(Rs.)	**275862608**		**288497849**		**314090067**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	6578.23		6798.11		6907.31	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9153.000		9136.000		9211.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	6765.339					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9167.755478					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

Sl	Month	Unit	2022-2023					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	37661.75		38451.99		40283.31	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	37661.75		38451.99		40283.31	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	37661.75		38451.99		40283.31	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	751499825		817463656		830833143	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	751499825		817463656		830833143	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	
12	**Total Transportation Charges (9+/-10-11)**	(Rs.)	**0**		**0**		**0**	
13	**Total amount Charged for Gas supplied including Transportation (8+13)**	(Rs.)	**751499825**		**817463656**		**830833143**	
14	Landed cost of gas/coal/ Lignite	(Rs./'000	19953.93		21259.33		20624.75	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9191.000		9256.000		9112.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	**20617.331**					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9185.132139					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART-I
FORM-17

DETAILS OF CAPITAL SPARES	
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM
Date of Commercial Operation :	4/1/1999

FY19-20

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (If Applicable)	Claimed as a part of stores and spares
	Name of spare	Amount (in Rs.)				
1	Actuator ASM Gas Regulating	8.28	-			
2	NBL Piston - 275 Diameter	8.37	8.37			
3	NBL HEAD CYNLINDER ASSM	13.29	13.29			
4	Seal Assy. With Seal Support Bars	16.19	-			
5	Gear Box: GS315/GZ30	15.92	-			
6	Gas Leakage Detection System	11.24	11.24			
7	Capacity Control VLV Actuator	15.50	-			
8	Nozzle Ring	9.46	-			
9	Piston Rod	21.16	21.16			
10	Blade Kit- Turbine Rotor Stage-I	590.00	590.00			
11	Nozzle Assembly Turbine Stage-III	458.15	458.15			
12	Shroud Set Turbine Stage # 3	40.12	40.12			
13	245 KV HV Bushing +15MVA Stationery Transformer	8.85	-			
14	HV Bushing+50MVA Generator Transformer	8.85	-			
15	Bearing Thrust/ Bearing Thrust Tilting Pad	6.20	-			
16	P-N: 43969-00001Flame Detector Ignition System	31.11	-			
17	Charmstograph Natural Gas With Accessories	65.86	-			
18	Complete Set of control VLV, CV-20/21	10.79	-			
19	Complete Cyclo Gear Model ZS6-616	7.29	-			
20	Thrust Bearing Assy/Thrust BRG (Complete Set)	56.20	-			
21	Instrument Air Compressor/Instrument Air Drier Exhaust Valve, Cyl Model	5.11	-			
22	Nozzle Arrgt Turbine Stage I, Nozzle Arrgnt Stage 1 (PGMA-35118)	367.61	-			
23	Nozzle Arrgt Turbine Stage 2, 2nd stage nozz, Assy FR6B	563.06	-			
24	Nozzle Arrgt Turbine Stage 3, NIL	458.15	-			
25	Blade Kit Turbine Rotor Stage 3, NIL	383.10	-			
26	Shroud Set Turbine Stage #3	40.12	40.12			
27	Quill Shaft for MOP	6.66	6.66			
28	16.25 Inch Cylinder Assy	137.11	-			

29	90AF 30A, Complete Actuator, GTG#1'4, Rotork Make (WD-2220-00-02)	13.94	6.97			
	Grand Total	3,377.68	1,196.09			

Total Spares Capitalized in FY19-20	3,377.68	
Spares consumed and claimed in FY20-21	**1,785.08**	**To be claimed as Capital Spares in FY20-21**
Spares consumed and claimed in FY19-20	**1,196.09**	**To be claimed as Capital Spares in FY19-20**
Spares not utilized	396.51	Part of Exclusion

(Petitioner)
PART-I
FORM-17

Details of Capital Spares

Name of the Petitioner :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station :	**ASSAM GAS BASED POWER STATION**
Place (Region/District/State):	**North Eastern Region District: DIBRUGARH State: ASSAM**
Date of Commercial Operation :	**4/1/1999**

FY20-21

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional	Funded through compensat	Funded through Special	Claimed as a part of stores and
	Name of spare	Amount (in Rs.)				
1	Bearing Set for LGB	97.65	97.65			
2	Set of Bearing for MOP (1SET=4NOS)	16.26	16.26			
3	Blade Kit Turbine Rotor Stage-I Blade Kit Turbine Rotors	590.00	590.00			
4	CMR 925 Rexnord Make Thomash Coupling	6.06	-			
5	CMR 925 Rexnord Make Thomash Coupling	12.91	-			
6	Diaphragm Row-16	55.24	-			
7	Combustor Basket Assy ,Combustor Basket Unit 1-2-5-6	95.63	-			
8	Combustor Basket Assy ,Combustor Basket Unit 3-4	47.81	-			
9	Combustor Basket Assy ,Combustor Basket Unit 7-8	47.81	-			
10	Combustor Basket Assy , Transition Piece	206.13				
11	Turbine Blade Ring & Static Row unit 1-2-3	267.58				
12	Turbine Blade Ring & Blade Static Row unit 1-2-3	24.15				
13	Turbine Blade Ring & Blade Static Row unit 1-2-3	256.94				
14	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RU)	12.85				
15	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (BS)	12.85				
16	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (LU)	12.85				
17	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RL)	12.85				

18	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,supporter #1(Horizontal)	60.72				
19	Bypass Valve Actuator	6.17				
20	Discharge Valve Actuator	7.58				
21	Bearing Insulation	7.63				
22	Cap & Liner Arrgt-Combustion ,Comb Linear Assy(G-24)	42.25	42.25			
23	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgma-35111)(G-25)	21.13	21.13			
24	Case & Shroud Arrgt ,Turbine ,Kit of 36 Shrouds Stage 1	88.96	88.96			
25	Compreessor wheel	22.35	22.35			
26	Ratchet Mechanism/ Cam. Freewheel Assy.	11.50	11.50			
27	Module-DIAG , IGN PWR (IPM-D)	5.11	-			
28	Housing Assy Wastegate, 3 IN R.B	9.43	9.43			
29	Housing Assy Wastegate, 3 IN R.B	9.43	9.43			
30	LGB Coupling Hardware (Nut, Bolt washer) between GEN and Gear Box	19.09	-			
31	Diverter Damper, Air barrier Fan & Motor assy	7.38	7.38			
32	Bearing, Thrust/Bearing Thrust Tilting Pad	6.20	-			
33	Flame Detector (28FD) Miscellanous	16.04	16.04			
34	Pressure Indicator Controller (PIC) GBS MHI Make	9.72	-			
35	Load Coupling & Hardware	22.77	-			
36	Actuator, Heinzmann	22.62	22.62			
37	Air Staeter Motor TDI	6.90	6.90			
38	Bulk Acid Storage Tank, MOC; MSRL	8.05	8.05			
39	Housing Assy Wastegate, 3 IN R.B	20.19	20.19			
40	Housing Assy Wastegate, 3 IN R.B	20.19	-			
41	Housing Assy Wastegate, 3 IN R.B	10.33	-			
42	Housing Assy Wastegate, 3 IN R.B	10.33	-			
43	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgma-35111)(G-26)	31.69	31.69			
44	Cross Head	16.15	-			
45	Piston Rod	24.02	24.02			
46	Piston and rod essembly 23 Inch HOS	33.14	-			
47	Water Pump Kit	5.13	-			
48	Overhaul Kit, JWPump	5.58	-			
49	Mandatory Spares for VMS, Metrix Setpoint	52.22	-			
50	Suction Control Valve with Actuator, Full Set	36.95	-			

51	NBL Piston,9:1 275 Diameter	9.34	-			
52	EXT NWORK PROT SYRTY OF ABT MONIT SYS FOR INTEGRATION OF OTHER SYSTEM	8.97	-			
53	SILICA ANALYZER WITH PANEL	7.26	-			
54	Bearing Thrust/ Bearing Thrust Tilting Pad	6.20	6.20			
55	Nozzle Arngt Turbine Stage I, Nozzle Arrgmt Stage 1 (PGMA-35118)	367.61	367.61			
56	Nozzle Arngt Turbine Stage 2, 2nd stage nozz. Assy FR6B	563.06	563.06			
57	Nozzle Arngt Turbine Stage 3, NIL	458.15	458.15			
58	Blade Kit Turbine Rotor Stage 3, NIL	383.10	383.10			
59	90AF 30A, Complete Actuator, GTG#1'4, Rotork Make (WD-2220-00-02)	6.97	6.97			
	Grand Total	4,263.16	2,830.93			

Total Spares Capitalized in FY20-21	4,263.16	
Spares consumed during FY20-21	***2,830.93***	***To be claimed as Capital Spares***
Spares not utilized	1,432.23	*Part of Exclusion*

(Petitioner)

PART-I
FORM-17

Details of Capital Spares	
Name of the Petitioner :	***NORTH EASTERN ELECTRIC POWER CORPORATION LTD.***
Name of the Generating Station :	***ASSAM GAS BASED POWER STATION***
Place (Region/District/State):	***North Eastern Region District: DIBRUGARH State: ASSAM***
Date of Commercial Operation :	***4/1/1999***

FY21-22

In Lakhs

1	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	47.43	47.43			
2	MODULE-DIAG,IGN PWR(IPM-D):GAS ENGINE	5.66	5.66			
3	1ST STG NOZZLE BODY&DIFUS-MAIN EJEC (Spares for Steam Air Jet Ejector : Condenser air	19.73	-			
4	2ND STG NOZZLE BODY&DIFUS-MAIN EJECTOR (Spares for Steam Air Jet Ejector : Condenser air)	15.48	-			
5	BASIC TURBO CHARGER WAUKESHA 12V 275GL+	82.56	-			
6	Cylinder Head Assembly	17.36	-			
7	Assembly NCM	5.17	-			
8	MODULE-DIAG,IGN PWR(IPM-D):GAS ENGINE	5.88	-			

9	Actuator,HEINZMANN:GAS ENGINE-WAUKESHA:1	10.33	10.33			
10	Nozzle Ring	9.64	-			
11	Compressor Wheel	24.09	-			
12	Spares for Cooling tower	22.37	-			
13	Circuit Breaker	18.46	18.46			
14	Compressor Casing Complete-72	6.93	-			
15	Wall Insert-77000	5.45	-			
16	Turbine Casing-51000	10.40	-			
17	Nozzle Ring(Spares)	9.64	-			
18	Spares for GBS Wouksa	22.08	-			
19	Gas Compressor Piston Rod Assembly for Gas Boster	35.12	35.12			
20	Spares of Steam Turbines Model HNK-71/2.8/32-4, 30 MW	18.56	18.56			
21	Mandatory Spares for Circuit Breaker	7.82	-			
22	VT PUMP Pump model: 400TE3C4 with accessories	8.79	8.79			
23	VT PUMP Pump model: 400TE3C4 with accessories	8.79	8.79			
24	Bulk acid tank	14.96	14.96			
	Grand Total	**432.70**	**168.10**			

Total Spares Capitalized in FY21-22	432.70	
Spares consumed	**168.10**	**To be claimed as Capital Spares**
Spares not utilized	264.60	Part of Exclusion

(Petitioner)

PART-I
FORM-17

Details of Capital Spares

Name of the Petitioner :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station :	**ASSAM GAS BASED POWER STATION**
Place (Region/District/State):	**North Eastern Region District: DIBRUGARH State: ASSAM**
Date of Commercial Operation :	**4/1/1999**

FY22-23

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional	Funded through compensat	Funded through Special	Claimed as a part of stores and
	Name of spare	Amount (in Rs.)				
1	Head Cylinder - WAUKESHA 12 V275GL+	21.09	0.00			
2	NBL PISTON 9:1 275 ENGINE/12V 275 GL+	23.62	0.00			

3	NBL LINER CYL ENGINE ENGINE-12V 275GL+	10.75	0.00			
4	Module, Ignition Control(NCM), Gas Engin	10.35	0.00			
5	ACTUATOR ASM, GAS REGULATING:GAS ENGINE	5.55	5.55			
6	Gas Compressor, 23 inch Piston & Rod ass	35.13	35.13			
7	CYLINDER 23 INCH FOR GBS	205.52	0.00			
8	PISTON & ROD:GBS:GAS COMP:16.25" CYL	25.46	0.00			
9	ACTUATOR	11.22	11.22			
10	AIR STARTER MOTOR 293435L 12V 275GL+	8.32	0.00			
11	UPPER PART OF BEARING SHELL:STG 30MW	9.21	0.00			
12	3Ph-MOTOR IS:325 4POLE-1500RPM 75KW-280S	5.60	0.00			
13	STEAM TURBINE ROTOR	478.26	0.00			
14	6.6 KV, 550 KW Vertical CW Pump Motor	77.40	77.40			
15	COMP. CG MODEL ZS6-25:HUMBOLDT WEDAG	7.61	0.00			
16	SCROLL CONVEYOR ASSEMBLY: CETRIFUGE	12.26	12.26			
17	KIRLOSKER PUMP	8.21	0.00			
18	PROPELLER SHAFT TRANSVERSE DRIVE	21.93	0.00			
19	FLAME DETECTOR 315A2708P001 (28FD)	18.76	0.00			
20	ROTORK GEAR BOX RH SIDE	42.95	0.00			
21	ROTORK GEAR BOX LH SIDE	42.95	0.00			
22	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA-1	59.96	59.96			570.55
23	TORQUE CONVERTER TWINDISC-4-SGE-2015-1	130.50	0			
24	50 MVA GT (BHEL)	525.1	0			
	Total	**1797.83**	**201.53**			

Total Spares Capitalized in FY22-23	1,797.83	
Spares consumed during FY22-23	**201.53**	**To be claimed as Capital Spares**
Spares consumed during FY23-24	**570.55**	**To be claimed as Capital Spares**
Spares not utilized	1,025.76	Part of Exclusion

(Petitioner)

PART-I
FORM-17

Details of Capital Spares			
Name of the Petitioner :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**		
Name of the Generating Station :	**ASSAM GAS BASED POWER STATION**		

Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM
Date of Commercial Operation :	4/1/1999

FY23-24 — In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional	Funded through compensat	Funded through Special	Claimed as a part of stores and
	Name of spare	Amount (in Rs.)				
1	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	59.96	0.00			
2	REDUCTION GEAR UNIT(SR 36 GRDR)	22.90	22.90			
3	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	12.48	0.00			
4	Module, Ignition Control (NCM), Gas Engine	6.70	0.00			
5	Housing Assy Wastegate 3 in LB WAUKESHA	25.95	25.95			
6	Housing Assy Wastegate 3 in RB WAUKESHA	26.00	0.00			
7	CHROMATOGRAPH-GAS:ROSEMOUNT SPS:PCBA CPU	6.00	0.00			
8	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1	26.20	0.00			
9	Gas Compressor, 23 inch Piston & Rod ass	36.70	36.70			
10	Gas Compressor, 23 inch Piston & Rod ass	0.43	0.00			
11	50 MVA GT	44.53	44.53			
12	VERTICAL TURBINE PUMP (INTAKE)	14.75	14.75			
13	CapitalSparesforFY2023-24_GT	23.51	0.00			
14	Head Cylinder - WAUKESHA 12 V275GL+	21.09	21.09			
15	3Ph-MOTOR IS:325 4POLE-1500RPM 75kW-280S	5.60	5.60			
16	FLAME DETECTOR 315A2708P001 (28FD)	18.76	18.76			
17	50 MVA GT (BHEL)	525.1	525.1			
	Total	**876.65**	**715.38**			

Total Spares Capitalized in FY23-24	876.65		
Spares consumed during FY23-24	**715.38**	**To be claimed as Capital Spares**	
Spares not utilized	161.27	Part of Exclusion	(Petitioner)

PART 1
FORM- 16

Non-Tariff Income

Name of the Petitioner	North Eastern Electric Power Corporation Ltd
Name of the Power Station	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

In Lakhs

Sl. No	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Interest from Employees on Loan	0.59	1.11	1.47	1.62	0.62	
2	Sale of Tender forms	1.26	1.02	0.35	0.24	0.00	0.04
3	Liquidated Damages	0.48	5.21	2.13	1184.13		1.16
4	Sale of Scraps	0.41	7.60	7.79	6.40	12.32	99.35
5	Transit Hostel Recovery	1.85	4.16	4.65	1.45	2.62	1.09
6	Other Misc. reciepts	0.35	0.02	1.36	0.47	0.02	
7	Grant In Aid	11.11	9.26	26.72	13.96	8.91	2.70
8	Recovery of Rent from employees	2.82	3.23	2.89	2.38	2.54	2.40
9	Recovery of Rent from other	1.67	2.17	1.34	1.63	1.44	4.32
10	Interest Income- Comp. advance	0.40	0.43	0.32			
11	Interest Income- Furniture. advance	0.10	0.14	0.12			
12	Contra for Lease Expenditure		38.49	53.61	71.83	66.56	61.77
13	Liability Written back	37.49	210.25		0.74	0.20	43.73
14	Other Recoveries from Contractor			0.10			
15	EMD Forfeited			0.21			
16	Profit on sale of Fixed asset	0.07		0.15		0.00	1.85
17	Sale of Energy Saving Certificate					25.96	69.09
	TOTAL	58.80	283.11	103.22	1285.07	121.40	287.51

(Petitioner)

PART 1
FORM- 19

Details of Water Charges							
Name of the Petitioner	North Eastern Electric Power Corporation Ltd						
Name of the Power Station	ASSAM GAS BASED POWER STATION						
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM						
							Amt in INR
Sl. No	Details of Water charges (excluding water cess)		Quantity allocated	Normative consumption at 85% PLF	Rate specified (as per govt. notification or agreement)	Spillage of water (in percentage)	Amount Claimed
	Name of source and quantity	Amount	Unit..				
1	River Buridihing, 2000000 CuM	10,00100.00 per year		1.2 CuM per MWH	same	10	5,000,500.00

(Petitioner)

PART 1
FORM- 20

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY19-20		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.67	42960569	445.84
2	Water Cess**			-

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY20-21		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.57	40449430	80.90
2	Water Cess**			-

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY21-22		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.38	38975181	77.75
2	Water Cess**			-

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY22-23		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.90	41013276	416.49
2	Water Cess**			-

DETAILS OF STATUTORY CHARGES				
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM	
		FY23-24		In Lakhs
Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.9	72342208	197.04
2	Water Cess**			1.46

(Petitioner)

PART-I
FORM-D

Break-up of Construction/Supply/Service packages						
Name of the Petitioner :		NORTH EASTERN ELECTRIC POWER CORPORATION LTD.				
Name of the Generating Station :		ASSAM GAS BASED POWER STATION				
Place (Region/District/State):		North Eastern Region District: DIBRUGARH State: ASSAM				
1	Name/No. of Construction/Supply/Service Packages	Package A	Package B	Package C	....	Total Cost of all packages
2	Scope of works[1] (in line with head of cost break-ups as applicable)	"Not Applicable in case of AGBPS"				
3	Whether awarded through ICB/DCB/Departmentally/Deposit Work					
4	No. of bids received					
5	Date of Award					
6	Date of Start of work					
7	Date of Completion of Work/Expected date of completion of work					
8	Value of Award[2] in (Rs. Lakh)					
9	Firm or With Escalation in prices					
10	Actual capital expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)					
11	Taxes & Duties and IEDC (Rs. Lakh)					
12	IDC, FC, FERV & Hedging cost (Rs. Lakh)					
13	Sub-total (10 + 11 + 12) (Rs. Lakh)					

Note:

1. The scope of work in any packages should be indicated in conformity of Capital cost break-up for the coal/lignite based plants in the FORM B to the extent possible. In case of Gas/Liquid Fuel based projects, break down in the similar manner in the relevant heads as per FORM C.

2. If there is package, which need to be shown in Indian Rupee and foreign currency (ies), the same should be shown separately along with the currency, the exchange rate and the date e.g. Rs 80 Cr + US$ 50m = Rs 390 Cr at US$=Rs 62 as on say 01.04.14.

(Petitioner)

Statement of Additional Capitalsation during five year before the end of useful life of the Project

Name of the Company :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
COD	01.04.1999

In Lakh

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
1	FY19-24	Replacement of old Waukesha Gas Engine 12V275 GL of Unit-4 of GBS along with all auxiliaries like Air Cooled Heat Exchanger (ACHE),Fuel filter	1,961.29	0	1,961.29	0	25(2)(d)	The reasons for replacement of old Waukesha Gas Engine with new higher capacity AT 12V 275GL+ Waukesha Gas Engine with its auxiliaries and enhancement of Gas Compressor capacity were as follows: 1. The Old Gas Engine was old and obsolete. 2. There was a design problem for which the engine power was not sufficient to drive the compressor. 3. To increase reliability of the Gas Booster Station (GBS) as well as the plant. 4. The Old Gas Compressors were unable to deliver and 4 units were put into service to run all the 6 numbers of Gas Turbines. There are four numbers of Gas Booster Station to cater service for supply pressurized gas to the Gas Turbines. As per design philosophy, 3 GBS units are in running condition to run 6 numbers of Gas Turbines. As per the approval of the CERC the replacement of 3 (three) out of 4 (Four) numbers of Gas Gas Engines were completed within 2015-16. The reason for not considering the 4th unit during 1st phase were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. There was good numbers of inventories for old Waukesha Gas Engines as well as Gas Compressors. If the replacement of the 4th Gas Engine would completed during 2015-16 to 2016-17, a hugh amount of capital would have been kept in unutilised condition. 3. If all the 4 units were considered for replacement during the period 2014-19 block, the capital cost infused for replacement of 4th GBS unit would have been loaded in the tariff during the period 2014-19 block. However, in this case, the cost impact on the tariff due to Add Cap infused would be for the period 2019-24 block. 4. So, replacement of Gas Engines in phase manner does not have any financial impact on the beneficiaries, rather distributed the expenditure of additional capital cost for replacement of Gas Engines in a segregated manner. In view of the above, hon'able Commission is requested to allow the cost of	15 YEARS
2	FY19-24	Revamping/modification of the Dresser-Rand Gas Compressor of GBS Unit-4	894.08	0	894.08	0	25(2)(d)		15 YEARS

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
3	FY19-24	Up-gradation of 2700- series, BENTELY-NEVADA make Vibration monitoring system of GT-1 and GT-2.	103.00		103.00		25(2)(e)	VMS rack 2700 of M/S Bently-Nevada is obsolete. Spare support is not available. As such, upgradation of Vibration Monitoring Sysytem is essential for safety of the equipment. The OEM has issued obsolete certificate. Installation and commissioning in GTG Unit # 1 on 19/05/2019 and GTG Unit # 2 on 20/06/2019	15 YEARS
4	FY19-24	Replacement of existing UPS with battery Bank for GT controllers and Online monitoring system.	119.78		119.78		25(2)(c)	1) Commission has already been admitted for the Year 2016-17 for an amount of Rs. 104.00 Lakhs and the works has already been completed in 2019-20. 2) The UPS system including Battery for GT controller and online monitoring system have commissioned in 1995. 3) As per guidelines of OEM, the life periods of Tubular Type (Microscopic Rubber) battery is 10-14 years and Pasted Type (Microscopic Rubber) is 5-7 years. 4)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension.	15 YEARS
5	FY 19-24	Construction of 20 MVAR Line Reactor	122.72	0	122.72	0	25(2)(C)	As per MOM between NERPC/NERLDC and NEEPCO for system stability of NER grid	15 YEARS
6	FY19-24	Replacement of Tabular Lead Acid Battery 48 V TBS (OPZS) 500AH of PLCC system	30.21	0	30.21	0	25(2)(C)	1)The 48 V DC Battery bank and Caligyne make battery Charger for PLCC had installed initially by PGCIL which was in service since commissioning of the plant (1995). Due to deteriorated condition of the 48 Volts Battery bank, it was advise in the 134th DCC meeting for replacement of the 48 Volts Battery bank. Moreover, the OEM suggested for replacement / upgradation of the same. 2) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life R&M works for Life Extension. Accordingly, it is necessary for replacement old battery bank for reliable operation of the system	15 YEARS

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
7	FY19-24	Upgradation of protection system by replacing existing electro-magnetic relays with numerical relays	18.79	0	18.79	0	25(2)(C)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	15 YEARS
8	FY19-24	Time Syncronization of RTU	2.81	0	2.81	0	25(2)(C)	1) As per Central Electricity Authority (Grid Standards) Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 2) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 3) It is necessity for time synchronization for the safety and security of grid. 4) DPR/documentry evidence for life extension has already submitted.	15 YEARS
9	FY19-24	Gas Leakage System (Major Spares). **New System**	11.24	0	11.24	0	25(2)(C)	The system was old and obsolete. So, upgraded with new system.	15 YEARS
10	FY19-24	Replacement of Digital Voltage Regulator(DAVR) FOR STG II	18.35	0	18.35	0	25(2)(C)	The existing Unitrol-M AVR system of ABB was obsolete. The Spare support of the old system was not available. As such, to make the system reliable and avoid outages due to non- availability of the spares, the system is replaced with new DAVR. The OEM has issued obsolete certificate	15 YEARS
11	FY19-24	Vibration Monetering System STG-I and STG#3	129.17	0	129.17	0	25(2)(C)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	15 YEARS
12	FY19-24	Technical Advisory Services for Turbine Inspection of GT-4	74.38	0	74.38	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
13	FY19-24	MAJOR CAPITALISED SPARES FY19-20	3,378.00	0	3,378.00	0	35(1)(6)	Capital spares for enhance life of the plant	15 YEARS
14	FY19-24	Replacement of old existing hydraulic operated CB with new ABB make spring operated SF6 of Circuit Breaker	162.78	0	162.78	0	25(2)(C)	1) As per CEA guidelines issued vide no. 2/3/M/sc/TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind reference. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	15 YEARS
15	FY19-24	Replacement of Fill Packs of Cooling Tower	91.54	0	91.54	0	25(2)(C)	Fouled fill packs of cooling tower was replaced to improve water distribution as well as to improve cooling tower efficiency. Improvement of cooling tower efficiency improves condenser performance and thereby efficiency of steam turbine improves.	15 YEARS
16	FY19-24	HMI REPACEMENT & Reinstallation including Custom duty	114.94	0	114.94	0	25(2)(C)	Server cum HMI of GT#5 was based on windows-XP and of GT#6 was windows-2007. Service support and Anti-virus update for Windows-XP & 2007 was not available. HMI of GT#5 is replaced with windows-10 and GT#6 is upgraded to windows-10.	15 YEARS
17	FY19-24	Upgradation of HMI Mark Control system	9.44	0	9.44	0	25(2)(C)		15 YEARS
18	FY19-24	Vibration Monitoring & Temperature Monitoring	59.72	0	59.72	0	25(2)(C)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	15 YEARS
19	FY19-24	Vibration Monitoring & Temperature Monitoring System GT#6	5.59	0	5.59	0	25(2)(C)		15 YEARS
20	FY19-24	Technical Advisory Services for M with LGB and AGB inspection of BHEL supplied GT U # 5	82.41	0	82.41	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended	15 YEARS
21	FY19-24	Technical Advisory Services for M with LGB and AGB inspection of BHEL supplied GT U # 6	148.49	0	148.49	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended	15 YEARS

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
22	FY19-24	5 Nos Haier Air Condition Outdoor	12.27	0	12.27	0	25(2)(C)	The cooling of the various control cards in DDC panels are essential to avoid any fault in the DDC panel due to heating and consequently to avoid any forced outages of the Gas Turbines. So, considering the urgency and as per Safety committee report, 5 (five) numbers of floor standing AC are installed in addition to the Centralised AC system. Installation of 5 numbers of vertical AC system makes the control system reliable and effective.	15 YEARS
23	FY19-24	MAJOR CAPITALISED SPARES FY20-21	2,478.00	0	2,478.00	0	35(1)(B)	Capital spares for enhance life of the plant	15 YEARS
24	FY19-24	Procurement of Transformer Oil filtration plant of capacity 6000LPH	17.94	0	17.94	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.	15 YEARS
25	FY19-24	Transformer filtration plant of capacity 1200LPH	4.25	0	4.25	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.	15 YEARS
26	FY19-24	Single chamber skid mounted type Transformer Oil Storage tank	7.46	0	7.46	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. This is a part of Filtration Plant and necessity for 2MVA Aux. Transformer and same has already been procured for filtration of Transformer oil.	15 YEARS

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			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
27	FY19-24	245 KV 2000AMPS Cirkit Breaker for 220 KV Switch yard	82.95	0	82.95	0	25(2)(C)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind refernce. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	15 YEARS
28	FY19-24	245 KV 2000AMPS Cirkit Breaker for 220 KV Switchyard	43.71	0	43.71	0	25(2)(C)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind refernce. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	15 YEARS
29	FY19-24	VT PUMP Pump model: 400TE3C4 with accessories	8.79	0	8.79	0	25(2)(C)	Raw water is collected from the River Burhidhing by pumping water through vertical turbine pump having overall shaft length of 13.5 mtr. Due to long shaft as well river silt, life span of intake pump is very less and frequent breakdown take place after two years of operation. Replacement with new pump leads reliable operation as well as minimize O&M expenditure. Installation of new pump is much cost benificial than replacement of work out parts.	15 YEARS
30	FY19-24	VT PUMP Pump model: 400TE3C4 with accessories	8.79	0	8.79	0	25(2)(C)	Do.	15 YEARS
31	FY19-24	Bulk acid tank	14.96	0	14.96	0	25(2)(C)	Bulk acid storage tank is required to store HCL as required for regeneration of SAC resin. The existing old acid storage tank were replaced with new tanks for life extension.	15 YEARS
32	FY19-24	Fume Absorbed Acid tank	0.48	0	0.48	0	25(2)(C)	Part of bulk acid storage tank as stated above.	15 YEARS

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			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
33	FY19-24	DIGITAL VOLTAGE REGULATOR DAVR	19.41	0	19.41	0	25(2)(C)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 5	15 YEARS
34	FY19-24	DIGITAL VOLTAGE REGULATOR DAVR	1.18	0	1.18	0	25(2)(C)	Service for the above	15 YEARS
35	FY19-24	DIGITAL VOLTAGE REGULATOR DAVR	20.59	0	20.59	0	25(2)(C)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 6	15 YEARS
36	FY19-24	DIGITAL VOLTAGE REGULATOR DAVR	1.69	0	1.69	0	25(2)(C)	Service for the above	15 YEARS
37	FY19-24	CUMMINS ENGINES FOR GT UNIT# 5 (INSTALLATION)	85.91	0	85.91	0	25(2)(C)	Due to dilution of Crank Case Lube Oil with Diesel, the major components like crankshaft, piston etc. of the Starting Diesel Engine got seized. The engine was 25 years old and the repair cost of the old engine is high. As such, it was decided to procure 1 (one) new Starting Diesel Engine.	15 YEARS
38	FY19-24	Upgradation of Centralised AC system by replacing 3 numbers of 70TR water cooled reciprocating chiller Units by high efficiency 80TR water cooled screw chiller along with Cooling Towers	88.19	0	88.19	0	25(2)(C)	The reciprocating type chillers were already crossed 25 years of operation. Due to ageing problem, the performance & efficiency was decreasing day-by-day and hence encountering various type of technical problem. Moreover, the OEM was unable to supply various spares for maintenance due to obsolence of the chillers. Hence, the Central AC plant was upgraded with higher capacity Screw type Chillers, which are more efficient and reliable.	15 YEARS
39	FY19-24	Medium Volt Covered Conductor(MVCC) IN 11 KV Line for intake pump house	15.40	0	15.40	0	25(2)(C)	The part of the 11 KV intake line was converter to MVCC for protection and reliability of the line.	15 YEARS
40	FY19-24	MAJOR CAPITALISED SPARES FY21-22	400.00	0	400.00	0	35(1)(6)	Capital spares for enhance life of the plant	15 YEARS
41	FY19-24	CRR & CRI OF MHI GAS TURBINECOMPRESSOR ROTOR(REFURBISHMENT) original rotor of unit # 3 and installed at GT unit # 2	2,606.75	0	2,606.75	0	25(2)(d)	As per recommendation of OEM, M/s Mitsubishi Corporation, Japan, either CRR-CRI (compresser rotor refurbishment and comprehensive Rotor inspection) or replacement of turbine rotor of Gas Turbine is necessary to obtain the desired output of the turbine after 1 lakh fired hours. This will enhance the life of the GT.	15 YEARS

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			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
42	FY19-24	Upgradation of Electro-magnetic relay to Numerical Relay of Gas Turbine Generators	34.95	0	34.95	0	25(2)(C)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	15 YEARS
43	FY19-24	Upgradation of EMS (ABT) Energy Management system.	28.74	0	28.74	0	25(2)(C)	Server cum HMI of the system was windows server-2012 & ABT software was P	15 YEARS
44	FY19-24	DCS CONTROLLER SYSTEM	698.21	0	698.21	0	25(2)(C)	P-13 ABB DCS completed 25-yr operation & spare support was not available. Th	15 YEARS
45	FY19-24	PLC	26.55	0	26.55	0	25(2)(C)	Allan-bready (Rockwell) PLC, SLC-500 completed 25 yr operation. Spare suppo	15 YEARS
46	FY19-24	Technical Advisory Service by MHI for GT#2	291.21	0	291.21	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the G	15 YEARS
47	FY19-24	Renovation of existing CO2 flooding system of GT#3 & 4	55.40	0	55.40	0	25(2)(C)	The Power Station has already crossed 25 years of operation. The CO2 system	15 YEARS
48	FY19-24	S/TC of 630 KVA, 11/0.433 KV 3 phase distribution transformer for intake pump house	11.94	0	11.94	0	25(2)(C)	The life of the transformerr has already completed.	15 YEARS
49	FY19-24	MAJOR CAPITALISED SPARES FY22-23	1,798.00	0	1,798.00	0	35(1)(5)	Capital spares for enhance life of the plant	15 YEARS

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
50	FY19-24	REPLACEMENT OF OLD EXISTING 245 KV CURRENT TTRANFORMER OF 220 KV SWITCHYARD	222.95	0	222.95	0	25(2)(C)	1) As per "Central Electricity Authority (Installation and operation of Meters) Regulations, 2006" and subsequent ammendment, the accuracy class for tariff metering core shall be equal to 0.2S or better, PS for differential protection and 5P20 for other protection. The notifications of CEA issued vide no: CEA-GO-13-15/9/2019-DPR Division dtd. 23/12/2019 may kindly be referred. 2) The accuracy class of our existing old BHEL make CTs for metering core is 0.5 and already crossed more than 25 years. 3) Moreover, as per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd 27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. The copy of CEA Regulations 2006 and guidelines are enclosed for references. 4) Order has already been placed. 5) DPR/documentry evidence for life extension has already submitted	15 YEARS
51	FY19-24	S/TC of Standalone Disturbance Recorder & Event Logger	59.75	0	59.75	0	25(2)(C)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no.CEA/ETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevent standards. "All operational data, including disturbance recorder, event logger reports, for analysing the grid incidents and grid disturbance, any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 2) Moreover, as per CERC regulations "Recording Instruments such as Data Acquisition System/ Disturbance Recorder/Event Logging Facilities/Fault Locator shall be provided and shall always be kept in working condition in the ISTS for recording of dynamic performance of the system. All users, STUs and CTU shall provide all the requisite recording instruments and shall always keep them in working condition." As such to comply with the CERC regulations, order has already been placed.	15 YEARS
52	FY19-24	Fluke multifunction calibrator with Pump & Sensor	11.72	0	11.72	0	25(2)(C)	For onsite calibration of Control Valves, Positioner etc., Standard Calibrator with pump was not available.	15 YEARS
53	FY19-24	Upgradation of SWAS System of Module1_STG#1	201.74	0	201.74	0	25(2)(C)	System has completed 25-yr and not in operation due to obsolete analyzer and other components.	15 YEARS
54	FY19-24	Spares for OBI of GT# 5	351.49	0	351.49	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
55	FY19-24	Renovation of existing CO2 flooding system of GT#1 & 2	55.40	0	55.40	0	25(2)(C)	The Power Station has already crossed 25 years of operation. The CO2 system is one of the vital integral component for safety of the equipment as well as Plant. Since, the CO2 system became old and obsolete, the system has been renovated and upgraded with new system.	15 YEARS
56	FY19-24	Supply, installation, testing & commissioning of 75 KLD STP	40.77	0	40.77	0	25(2)(C)	Installation of STP in a power house is as per statutory requirement.	15 YEARS
57	FY19-24	Spares for CI/I of GT# 5	148.00	0	148.00	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
58	FY19-24	M I & OH of Generator & Exciter	77.00	0	77.00	0	25(2)(C)	The overhauling of Generator & Exciter was carried out as per the guidelines of OEM for life extension of the equipment. Moreover, the stator winding temperature was observed in higher side.	15 YEARS
59	FY19-24	MAJOR CAPITALISED SPARES FY23-24	306.10	0	306.10	0	35(1)(5)	Capital spares for enhance life of the plant	15 YEARS
Note:			17,878.57		17,878.58				

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes

2. Justification for additional capital expenditure claim for each asset should be relevent to regulations under which claim has been made and the necessity of capitalization of the asset.

(Petitioner)

PART-I
FORM-I

Details of Assets De-capitalized during the period				
Name of the Company :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station : Assam Gas Based Power Station				
Region : NE Region	State: Assam		District: Dibrugarh	

FY2019-20

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	35.76	1999	32.18	
2	Gas Booster Station	Additional Capital Expenditure	10.13	1999	9.12	
3	Gas Booster Station	Additional Capital Expenditure	999.67	1999	899.70	
4	Gas Booster Station	Additional Capital Expenditure	10.24	1999	9.22	
5	Sy.Gear Including Cable Connectic 100 Amps above	Additional Capital Expenditure	10.49	1999	9.44	
6	Sy.Gear Including Cable Connectic 100 Amps above	Additional Capital Expenditure	6.52	1999	5.87	
7	Steam Turbine	Additional Capital Expenditure	6.37	1999	5.73	
8	Steam Turbine	Additional Capital Expenditure	40.96	1999	36.86	
9	Steam Turbine	Additional Capital Expenditure	3.88	1999	3.49	
10	Steam Turbine	Additional Capital Expenditure	3.86	1999	3.47	
11	Spl. Tools & Plants	Additional Capital Expenditure	41.17	1999	37.05	
12	Furniture &Fixture	Exclusion	3.14	1999	3.14	
13	Other E.D.P machines	Exclusion	2.98	1999	2.49	
		Total	**1175.17**		**1057.76**	
		Net without exclusion	1,169.05		1,052.13	

Note: Year wise detail need to be submitted.

(Petitioner)

FY2020-21

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	382.65	1999	344.39	
2	Gas Turbine	Additional Capital Expenditure	2.52	1999	2.27	
3	Gas Turbine	Additional Capital Expenditure	10.24	1999	9.21	
4	Gas Booster Station	Additional Capital Expenditure	48.39	1999	24.54	

5	Gas Booster Station	Additional Capital Expenditure	32.68	1999	18.38	
6	Sy.Gear Including Cable Connection	Additional Capital Expenditure	55.58	1999	50.03	
7	Fire-fighting Equipments	Exclusion	3.59	1999		
8	Gas Steam Turbine(O&M	Additional Capital Expenditure	23.96	1999	21.56	
9	Cooling Tower	Additional Capital Expenditure	3.35	1999	3.01	
10	Special Tools & Plants	Additional Capital Expenditure	7.33	1999	6.02	
11	Furniture &Fixture -Others	Exclusion	0.57	1999		
12	Other E.D.P machines	Exclusion	43.94			
		Total	**614.80**		**479.41**	
		Net without exclusion	610.64		479.41	

Note: Year wise detail need to be submitted.

(Petitioner)

In lakhs

Sl No.	Name of the Asset	FY2021-22 Nature of de-capitilization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	7.58	1999	6.80	
2	Gas Turbine	Additional Capital Expenditure	6.94	1999	5.97	
3	Gas Turbine	Additional Capital Expenditure	29.39	1999	25.26	
4	Gas Turbine	Additional Capital Expenditure	26.80	1999	21.99	
5	Gas Booster Station	Additional Capital Expenditure	9.19	1999	7.22	
6	Switchgear including cable connection	Additional Capital Expenditure	42.69	1999	36.40	
7	Furniture	Exclusion	0.57	1999	0.57	
8	Cellular Phone	Exclusion	0.23	1999	0.18	
		Total	**123.37**		**104.39**	
		Net without exclusion	122.58		103.64	

Note: Year wise detail need to be submitted.

(Petitioner)

In lakhs

Sl No.	Name of the Asset	FY2022-23 Nature of de-capitilization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7

1	Temp.Building	Exclusion	44.90	1999	44.90	
2	Gas Turbine	Additional Capital Expenditure	10.43	1999	9.36	
3	Gas Booster Station	Additional Capital Expenditure	3.09	1999	2.60	
4	Gas Booster Station	Additional Capital Expenditure	10.48	1999	8.81	
5	Gas Booster Station	Additional Capital Expenditure	3.35	1999	2.81	
6	Gas Booster Station	Additional Capital Expenditure	17.89	1999	15.04	
7	Sy.Gear including Cable Connection	Additional Capital Expenditure	28.83	1999	-	
8	Gas Sream Turbine	Additional Capital Expenditure	208.31	1999	178.63	
	Gas Sream Turbine	Additional Capital Expenditure	3.66		3.19	
	Gas Sream Turbine	Additional Capital Expenditure	7.84		6.83	
	Fire Fighting Equipment	Exclusion	9.86		9.21	
	Survey Instruments	Exclusion	3.72		3.37	
	Ordinary Tools & Plants	Exclusion	1.12		1.11	
	Camp Equipment	Exclusion	1.10		1.10	
	Furniture &Fixture	Exclusion	3.11		3.03	
	Other E.D.P machines	Exclusion	8.84		8.11	
	Office Equipments	Exclusion	2.70		2.14	
	Hospital Equipments	Exclusion	2.57		2.01	
	Drawing equipments	Exclusion	0.28		0.28	
	Miscellaneous Equipments	Exclusion	1.97		1.89	
	Audio Visual Equipments	Exclusion	5.13		4.90	
	Bi-cycle	Exclusion	0.15		0.15	
	Software	Exclusion	0.85		0.85	
		Total	**380.15**		**310.32**	
		Net without exclusion	293.86		227.27	

Note: Year wise detail need to be submitted.

(Petitioner)

		FY2023-24				In lakhs
Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1	Gas Turbine	Additional Capital Expenditure	156.79	1999	141.03	
2	Sy.Gear including Cable Connection	Additional Capital Expenditure	72.65	1999	64.64	
3	Gas Sream Turbine	Additional Capital Expenditure	65.74	1999	57.51	
4	Disposal	Exclusion	150.42			
		Total	**445.61**		**263.18**	
		Net without exclusion	295.18		263.18	

Note: Year wise detail need to be submitted.

PART-I
FORM-J

Reconciliation of capitalisation claimed vis-à-vis books

Name of the Company :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	Assam Gas Based Power Station
COD	4/1/1999

In lakhs

Sl No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Closing Gross Block as per IND AS	177206.11	179789.71	180752.22	185989.10	187060.43
2	Add/Less: Adjustments*	0	0	0	0	0
3	**Closing Gross Block as per IGAAP**	177206.11	179789.71	180752.22	185989.10	187060.43
4	Opening Gross Block as per IND AS	171294.63	177206.11	179789.71	180752.22	185989.10
5	**Add/Less: Adjustments***	0.00	0	0	0	0
6	Opening Gross Block as per IGAAP	171294.63	177206.11	179789.71	180752.22	185989.10
7	**Total Additions as per books (G = 3 - 6)**	5911.49	2583.60	962.51	5236.88	1071.33
8	**Less: Additions pertaining to other Stages (give Stage wise breakup)**	0	0	0	0	0
9	**Net Additions pertaining to instant project/Unit/Stage**	5911.49	2583.60	962.51	5236.88	1071.33
10	**Less: Exclusions (items not allowable / not claimed**	714.90	1477.64	528.89	1660.77	193.55
11	**Net Additional Capital Expenditure Claimed (on accrual basis)**	5196.59	1105.95	433.62	3576.12	877.78
12	**Less: Un-discharged Liabilities (as per IGAAP)**	1385.24	1385.24	0	0	0
13	**Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works (as per IGAAP)**	0	0	1385.24	0	0
14	**Net Additional Capital Expenditure Claimed (on cash basis)**	**3811.35**	**-279.29**	**1818.86**	**3576.12**	**877.78**

Note: (1) Form is to be certified by the Auditor and Certificate issued as per the guidelines prescribed by their governing body.

(2) Reason for exclusion of any expenditure shall be given in Clear terms. *Break-up to be specified.

(Petitioner)

PART-I
FORM-K

Statement showing items/assets/works claimed under Exclusions:

Name of the Company :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	Assam Gas Based Power Station
COD	4/1/1999

FY19-20

In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Renovation of A type Quarters		0.00	64.99		NEEPCO/AGBP/CWC/T-2/2018-19/516 DTD 29.05.2018
2	Renovation & Modernisation of Bank Building		0.00	11.26		NEEPCO/AGBP/CWC/T-92/2018-19/2091 DTD 13.02.2019
3	R & M OF A-Type Quarter NoA-49,50,55,57		0.00	65.64		NEEPCO/AGBP/CWC/T-2/2018-19/544-47 DTD 01.06.2016
4	Construction of Class Room at VKV,AGBP		0.00	8.55		NEEPCO/AGBP/CWC/T-2/2019-20/1231 DTD 28.10.2019
5	Modification & Extension of Toilet & Urinal adjacent with dinning hall of GH-II		0.00	11.59		NEEPCO/AGBP/CWC/T-2/2018-19/2048 DTD 11.02.2019
6	Godrej Unwind Chair		0.00	0.30		
7	Godrej Personal Locker		0.00	1.17		
8	Godrej Chair & Table		0.00	4.18		
9	Misce Equipment		0.00	0.51		
10			0.00	0.10		
11	Misce Equipment		0.00	0.16		
12	Kirloskar MonoblockWater Pump Set 2 Nos		0.00	1.12		NEEPCO/AGBP/UWC/T-3/19-20/111 DTD 09.07.2019
13	Kirloskar MonoblockWater Pump Set 10.0HP		0.00	0.77		NEEPCO/AGBP/UWC/T-3/19-20/317 DTD 16.12.2019
14	Panasonic AC		0.00	1.73		
15	4 nos Water Purifier		0.00	0.49		
16	Purchese of Motorolla		0.00	3.46		

17	Piston & Rod Assembly 23 " HOS	-	0.00	29.00		
18	Capitalisation of Major Spares	-	0.00	4.00		NEEPCO/AGBP/PEM/O&M-08/19-20/80 DTD 29.05.2019
19	Capitalisation of Mandatory Spares for R &M Unit-IV	-	0.00	34.00		
20	Installation Charges of Gas Leakage System	-	0.00	1.00		
21	Technical Advisory Services for Turbine Inspection of GT-4		0.00	74.38		
22	Capital Spares not utilized		0.00	396.51		
			Total	**714.90**		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed,
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

Statement showing items/assets/works claimed under Exclusions:

Name of the Company :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station :	**Assam Gas Based Power Station**
COD	**4/1/1999**

FY20-21 *In lakhs*

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Pmt. Internal Wearing & Electification of newly constructed Class Room & Ladies Tiolet at VKV,AGBP	0.58	0.00	0.58		NEEPCO/AGBP/UWC/T-06/20-21/09 DTD 29.04.2020
2	Installation of Tube well at B-Type Colony	8.37	0.00	8.37		NEEPCO/AGBP/CWC/19-20/T-02/547 DTD 30.07.2019
3	Crompton Horizontal OpenWell Submesible Pump Motor	0.22	0.00	0.22		NEEPCO/AGBP/UWC/T-03/2020-21/264 DTD 29.12.2020
4	SERVER	3.10	0.00	3.10		GEMC-511687787322327 DTD 08.04.2020
5	Monitor & Printer	0.30	0.00	0.30		NEEPCO/AGBP/IT-04/2020-21/45 DTD 11.11.2020

6	18 NOS Laptop	15.07	0.00	15.07		GEMC-511687758169561 DTD 13.11.2020
7	Blower Machine	0.32	0.00	0.32		
8	Automatic Sanitizer Machine	0.60	0.00	0.60		
9	2 Nos Brush Cutter	0.91	0.00	0.91		CWC/1668 DTD 23.03.2021
10	Gyser 25 ltrs	0.11	0.00	0.11		
11	Gyser 25 ltrs 2 Nos	0.23	0.00	0.23		NEEPCO/AGBP/UWC/T-3/20-21/252 DTD 19.12.2020
12	Gyser 25 ltrs 2 Nos	0.24	0.00	0.24		NEEPCO/AGBP/UWC/T-3/20-21/372 DTD 17.03.2021
13	Ahuja Make Speaker BOX for NRC	1.04	0.00	1.04		AGBP/PERS/WE-05/2019-20/6426 DT 20.03.2020
14	8 Nos LED TV	1.68	0.00	1.68		AGBP/PERS/ADMN-14/2020-21/5619-21 DT 10.02.2021
15	Fire Extinguisher	0.38	0.00	0.38		GEMC-51168770976720 DT 12.10.2020
16	5 Nos Haier Air Condision Outdoor	12.27	0.00	12.27		
17	Capital Spares not utlized	1,432.23	0.00	1,432.23		
			Total	1,477.64		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed,
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

Statement showing items/assets/works claimed under Exclusions:

Name of the Company :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station :	**Assam Gas Based Power Station**
COD	**4/1/1999**

FY21-22

In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Fork Lift	15.95	0.00	15.95		GEMC 511687767765842 DTD 08.02.2021

2	BRUSH/WEED CUTTER	0.92	0.00	0.92		CWC/1668 DTD 23.03.2021
3	HAND OPERATED TREE BRANCH CUTTER	0.18	0.00	0.18		CWC/1668 DTD 23.03.2021
4	TOSHI TOUCH FREE INFRARED HAND DRYER	0.06	0.00	0.06		
5	Top End Ovehauling of GBS Unit-3	195.84	0.00	195.84		HOP/20-21/456 DTD 14.12.2020
6	Microtek UPS EB 1100 (12V)	0.07	0.00	0.07		UWC/20-21/352 DTD 09.03.2021
7	Exide Inva Master IMTT1500	0.15	0.00	0.15		UWC/20-21/352 DTD 09.03.2021
8	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
9	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
10	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
11	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
12	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
13	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
14	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
15	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
16	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
17	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
18	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
19	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
20	Penasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
21	VOLTAS SPILT AIR CONDITIONER 2 TR	0.54	0.00	0.54		UWD/164 DTD 07.08.2021
22	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
23	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
24	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022

25	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
26	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
27	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
28	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
29	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
30	hp laserjet printer	0.20	0.00	0.20		
31	12 Ton Hydraulic Mobile Crane -IS:4573	16.73	0.00	16.73		GEMC 511687775863639-1 DTD 04.01.2022
32	Insulation Tester_1000V	0.22	0.00	0.22		GEMC 511687785507074 DTD 31.12.2021
33	Acquaguard for HOP residence	0.27	0.00	0.27		
34	Contruction of boundary wall for grazing land	5.28	0.00	5.28		
35	Security Survilence Room	18.56	0.00	18.56		
	Fume Absorbed Acid tank	0.48	0.00	0.48		
36	Capital Spares not utilized	264.60	0.00	264.60		
			Total	528.89		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed,
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

Statement showing items/assets/works claimed under Exclusions:

Name of the Company :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station :	**Assam Gas Based Power Station**
COD	**4/1/1999**

FY22-23

In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Renovation Work for Clariflocculator of AGBPS	8.03	0.00	8.03		
2	Renovation of Areator	4.64	0.00	4.64		
3	Renovation of intake well pump house	4.89	0.00	4.89		

4	Liquid Nitrogen Storage equipment	0.26	0.00	0.26		
	STIHL HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.25	0.00	0.25		
	Mild Steel Movable Stand for Mounting Digital display	0.23	0.00	0.23		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All In One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP All In One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP All In One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N12330353	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035H	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		

	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	Digisol Switch DG-DS 1528	0.13	0.00	0.13		
	8-Ports Managed PoE- Sl No: 94192302021, 00157	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302022, 00158	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302023, 00159	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302024, 00160	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302025, 00161	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302026, 00152	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302027, 00153	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302028, 00154	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302029, 00155	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302030, 00156	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302046, 00162	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302048, 00151	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		

	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022

	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.54	0.00	0.54		GEMC 511687740694655 DTD 11.03.2022
	Voltriq SmartTV 85' 4k UltraHD -851VOL0920220001	1.75	0.00	1.75		
	Voltriq SmartTV 85' 4k UltraHD -851VOL0920220001	1.75	0.00	1.75		
	USB Camera with Integrated Speaker for VC System	0.38	0.00	0.38		
	Outdoor Mild Steel Led Display System (8 ft. x 10	4.75	0.00	4.75		
	LG Microwave Oven for Household purposes	0.16	0.00	0.16		
	Battery	0.19	0.00	0.19		NEEPCO/AGBP/F&S/S-8/2022-23/143 DTD 13.02.2023
	Capital Spares not utilized	1596.31	0.00	1596.31		
			Total	**1,660.77**		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed,
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

Statement showing items/assets/works claimed under Exclusions:	
Name of the Company :	**NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**

Name of the Generating Station :	Assam Gas Based Power Station
COD	4/1/1999

FY23-24 — In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	STIHL HANDHELD BRUSH CUTTER/ LINE TRIMMER .	0.25	0.00	0.25		
2	HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.08	0.00	0.08		
3	HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.08	0.00	0.08		
4	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
5	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
6	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
7	**Godrej Split Air Conditioner including green AC 35**	0.37	0.00	0.37		
8	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
9	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
10	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
11	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
12	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
13	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
14	Chain Pipe Wrench IS : 4123 Length = 920 mm	0.03	0.00	0.03		
15	Chain Pipe Wrench IS : 4123 Length = 920 mm	0.03	0.00	0.03		
16	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
17	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
18	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
19	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
20	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
21	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
22	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
23	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
24	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
25	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
26	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
27	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
28	Semi automated biochemistry analyzer (Arkray)	2.39	0.00	2.39		
29	EPSON MF PRINTER MODEL: L1250, S/No: XSLX00	0.12	0.00	0.12		

30	EPSON MF PRINTER MODEL: L1250, S/No: XSLX0(	0.12	0.00	0.12		
31	EPSON MF PRINTER MODEL: L1250, S/No: XSLX0(	0.12	0.00	0.12		
32	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
33	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
34	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
35	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
36	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
37	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
38	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
39	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
40	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
41	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
42	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
43	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
44	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
45	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
46	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
47	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
48	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CQJ	0.99	0.00	0.99		
49	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CQW	0.99	0.00	0.99		
50	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRK	0.99	0.00	0.99		
51	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRQ	0.99	0.00	0.99		
52	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRW	0.99	0.00	0.99		
53	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRX	0.99	0.00	0.99		
54	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT2	0.99	0.00	0.99		
55	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT5	0.99	0.00	0.99		
56	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT7	0.99	0.00	0.99		
57	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTF	0.99	0.00	0.99		
58	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTS	0.99	0.00	0.99		
59	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTW	0.99	0.00	0.99		
60	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTY	0.99	0.00	0.99		
61	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTZ	0.99	0.00	0.99		
62	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CV0	0.99	0.00	0.99		
63	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CVK	0.99	0.00	0.99		
64	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CR7	0.99	0.00	0.99		
65	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSQ	0.99	0.00	0.99		
66	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSY	0.99	0.00	0.99		
67	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSZ	0.99	0.00	0.99		
68	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT1	0.99	0.00	0.99		
69	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CV7	0.99	0.00	0.99		
70	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CVC	0.99	0.00	0.99		
71	HP Scanner Flow N6600 fnw1	0.97	0.00	0.97		
72	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		

73	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
74	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
75	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
76	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
77	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
78	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
79	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
80	**Capital Spares not utilized**	161.27	0.00	161.27		
			Total	**193.55**		

Note:

1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed,

2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the stetion.

(Petitioner)

PART-I
Form L

Statement of Capital cost			
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station :	Assam Gas Bsed Power Station		

FY19-20 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liabality	Cash Basis
A	a) Opening Gross Block Amount as per books	171,294.63		169,909.39
	b) Amount of capital liabilities in A(a) above	1,385.24		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	4,351.24		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	2,735.42		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	1,175.17		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	177,206.11		
	b) Amount of capital liabilities in E(a) above	1,385.24		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:

1.Relevant date/s means date of COD of units/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY20-21 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	177,206.11		
	b) Amount of capital liabilities in A(a) above	1,385.24		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	3,198.40		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	-		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	614.80		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	179,789.71		
	b) Amount of capital liabilities in E(a) above	1,385.24		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

175,820.87

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY21-22 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	**179,789.71**		
	b) Amount of capital liabilities in A(a) above	1,385.24		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	612.53		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	473.35		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	123.37		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	180,752.22		
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of units/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY22-23 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	180,752.22		
	b) Amount of capital liabilities in A(a) above	-		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	1949.06		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	3,657.95		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	380.15		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	185,989.10		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of units/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY23-24 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liabality	Cash Basis
A	a) Opening Gross Block Amount as per books	185,989.10		
	b) Amount of capital liabilities in A(a) above	-		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	522.97		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transfered from CWIP)	993.96		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	445.61		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	187,060.43		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

PART-I
FORM M

Statement in Capital Works In Progress

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : Assam Gas Based Power Station

FY19-20 (Amount in Rs. Lakh)

Sl.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liabailty	Cash Basis
A	a) Opening CWIP as per books	152.94	0	152.94
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	2,681.44	0	2681.44
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	2,735.42	0	2735.42
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	98.96	0	98.96
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	- 0.00	-	-
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note.
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

	FY20-21	(Amount in Rs. Lakh)		
Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liabailty	Cash Basis
A	a) Opening CWIP as per books	-	0	0
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	2,521.53	0	2521.53
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	-	0	0
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	2,521.53	-	2,521.53
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:

1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

	FY21-22	(Amount in Rs. Lakh)		
Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liabality	Cash Basis
A	a) Opening CWIP as per books	2,521.53	0	2521.53
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	1,885.74	166.00	1,719.74
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	473.35	0	473.35
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	3,933.92	166.00	3,767.92
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			

	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

	FY22-23	(Amount in Rs. Lakh)		
Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liability	Cash Basis
A	a) Opening CWIP as per books	3,933.92	166.00	3,767.92
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	3,079.60	0	3,079.60
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	3,667.98	166.00	3,667.98
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			

3,179.64

E	a) Closing CWIP as per books	3,345.54	-	3,179.54
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**

Name of the Petitioner : **NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station : **Assam Gas Based Power Station**

FY23-24 **(Amount in Rs. Lakh)**

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un-discharge liability	Cash Basis
A	a) Opening CWIP as per books	3,345.54	-	3,179.54
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	4,173.28	26.12	4,147.16
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	993.96	0	993.96
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			

D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	6,524.86	26.12	6,332.74
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

PART-I
FORM-N

CALCULATION OF INTEREST ON NORMATIVE LOAN

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station :	Assam Gas Based Power Station		
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM

(In Lacs)

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Gross Normative loan - Opening	79,418.68	79,210.97	80,765.77	80,810.76	81,966.85	84,389.47
	Cumulative repayment of Normative loan upto previous year	77,588.05	79,210.97	80,765.77	80,810.76	81,966.85	84,389.47
	Net Normative loan - Opening	1,830.63	-	-	-	-	-
	Add:Increase due to addition during the year / period	- 207.71	2,373.13	472.44	272.22	2,628.32	816.97
	Less: Decrease due to de-capitalisation during the year / period	-	818.33	427.45	85.80	205.70	311.92
	Less: Decrease due to reversal during the year / period	-	-	-	-	-	-
	Add:Increase due to discharges during the year / period		-	-	969.67	-	-
	Net Addition	- 207.71	1,554.80	44.99	1,156.09	2,422.62	505.04
	Less : Repayment(s) of Normative Loan during the year	1,994.73	3,301.11	3,563.47	3,827.90	5,026.12	7,071.85
	Repayment adjustment on a/c of de capitalization (F)		1,052.13				
	Net Repayment	1,994.73	2,248.98	3,563.47	3,827.90	5,026.12	7,071.85
	Net Normative loan - Closing	-	-	-	-	-	-
	Average Normative loan	915.31	-	-	-	-	-
	Weighted average rate of interest	9.783%	9.783%	9.783%	9.783%	9.783%	9.783%
	Interest on loan	89.55	-	-	-	-	-

(Petitioner)

Part-I
Form-O(f)

CALCULATION OF INTEREST ON WORKING CAPITAL

Name of the Petitioner :	ECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	S BASED POWER STATION
Place (Region/District/State):	District: DIBRUGARH State: ASSAM

(Rs. in lakh)

1. Calculation of Fuel costs:	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Normative Heat Rate	2500	2500	2500	2500	2500	2500
Normative annual plant availability factor (NAPAF) %	72%	72%	72%	72%	72%	72%
Weighted average landed price of primary fuel (Rs/SCM)	7.2640	7.4363	7.1137	4.1721	5.7653	20.6173
Gross calorific value of primary fuel (KCal/SCM)	8200.940	8091.064	9187.349	9187.969	9187.755	9185.133
Target Energy generation/year (MU)	1005.24	1782.81	1784.92	1784.92	1784.92	1783.81
Target Energy generation/month (MU)	83.77	148.15	148.74	148.74	148.74	148.15
SOR(Rs/Kwh)	3.324	2.204	2.070	1.217	1.973	6.001
Cost of Fuel per month (Rs. lakhs)	**2,962.59**	**3,287.29**	**3,078.59**	**1,810.21**	**2,934.71**	**8,850.55**

2. Computation of receivables:						(Rs. in lakh)
Variable Charges per year	22705.40	39447.46	39847.88	27722.50	35216.91	107406.62
Variable Charges - 1 1/2 months	3325.10	4930.93	4615.49	2715.31	4402.09	13425.83
Fixed Charges - 1 1/2 months	3548.20	3778.22	3873.13	3905.04	4164.71	4763.33
Receivables (1 1/2months)	**11473.54**	**8709.15**	**8488.62**	**6620.36**	**8566.79**	**18189.16**

(Petitioner)

2.50%

2.75

CALCULATION OF INTEREST ON WORKING CAPITAL

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Rs. in lakh)

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite [1]						
2	Cost of Main Secondary Fuel Oil [1]						
3	Fuel Cost [2] (for one month)	2962.59	3267.29	3078.99	1810.21	2934.71	8950.55
4	Liquid Fuel Stock [2]						
5	O & M Expenses	1054.88	912.14	937.03	968.32	1003.26	1049.33
6	Maintenance Spares	3797.55	3283.70	3373.30	3485.95	3611.80	3777.59
7	Receivables	11473.53	0.00	0.00	0.00	0.00	(Petitioner)
8	**Total Working Capital**	**19288.55**	**7483.13**	**7389.32**	**6264.48**	**7549.79**	**13777.47**
9	Rate of Interest	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%
10	**Interest on Working Capital**	**2603.95**	**901.72**	**831.30**	**657.77**	**792.73**	**1653.30**
	SBI MCLR AS ON 1ST APRIL OF EACH YEAR		8.55%	7.75%	7%	7%	8.50%
	+ 350 BASIS POINTS		3.50%	3.50%	3.50%	3.50%	3.50%
	BANK RATE	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%

Note :

1 For Coal based / Lignite based generating stations

2 For Gas Turbine / Combined Cycle generating stations duly taking into account the annual mode of operation (last available)

on gas fuel and liquid fuel

(Rs. in lakh)

YEAR		2019-20	2020-21	2021-22	2022-23	2023-24
Security Exp		408.56	337.65	329.04	352.77	495.08
Water Charge (Form-20)						

1923.103

(Petitioner)

PART-I
FORM-P

Incidental Expenditure up to SCOD and up to Actual/anticipated COD		
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	Assam Gas Based Power Station	

(Amount in Rs. Lakh)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD	
A	Head of Expenses:			
1	Employees' Benefits Expenses			
2	Finance Costs			
3	Water Charges			
4	Communication Expenses			
5	Power Charges			
6	Depreciation			
7	Other Office and Administrative Expenses	Not Applicable in Case of AGBP		
8	Others (Please Specify Details)			
9	Other Pre-Operating Expenses			
B	Total Expenses			
	Less: Income from sale of tenders			
	Less: Income from guest house			
	Less: Income recovered from Contractors			
	Less: Interest on Deposits			

(Petitioner)

PART-I
FORM-Q

Expenditure under different packages up to SCOD and up to Actual/anticipated COD	
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	Assam Gas Based Power Station

(Amount in lacs)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD
1	Package 1		
2	Package 2		
3	Package 3	Not Applicable in Case of AGBP	
4	Package 4		
5			
6			

(Petitioner)

PART-I
FORM-R

Actual Cash Expenditure			
Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
Name of the Generating Station :	Assam Gas Based Power Station		

(Amount in lakhs)

Particulars	Quarter-I	Quarter-II	Quarter-III	Quarter-n / DOCO
Expenditure towards Gross Block				
Add: Expenditure towards CWIP	-	-	-	-
Add: Capital Advances, if any	-	-	-	-
Less: Un-discharged liabilities (included above)	Not Applicable in Case of AGBP			
Add/Less: Others	-	-	-	-
Payment to contractors / suppliers towards capital assets	-	-	-	-
Cumulative payments	-	-	-	-

Note: If there is variation between payment and fund deployment justification need to be furnished

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.					
Name of the Generating	Assam Gas Based Power Station				

FY19-20

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2020	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.					
Name of the Generating	Assam Gas Based Power Station				

FY20-21

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2021	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.					
Name of the Generating	Assam Gas Based Power Station				

FY21-22

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2022	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	240.78	NIL
	Steam Turbine Unit I,II & III	1999-2000				NIL
	Switch Gear	1995-1996				NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	1,144.46	NIL
	Steam Turbine Unit I,II & III	1999-2000				NIL
	Switch Gear	1995-1996				NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating : Assam Gas Based Power Station

FY22-23

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2023	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
NIL	NIL	NIL	NIL	NIL	NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating : Assam Gas Based Power Station

FY23-24

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2024	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
NIL	NIL	NIL	NIL	NIL	NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Major Spares Capitalized -FY19-20

Project:- Assam Gas Based Power Plant

S.No.	Main Group	Group Name	Material Code	Material Description	Qty.	Value (Per Quantity)	Capitalized Amount	Head of Account	DATE OF GRN	GRN No.	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR												
1	37	GBS	3719001469	NBL Piston - 275 Diameter	1	837,431.68	837,431.68	512106-Gas Booster Station	07.06.2019	10190034	20190011 Dt.22.5.2019	20190137 Dt.10.6.2019
2	37	GBS	3719001495	NBL HEAD CYNLINDER ASSM	1	1,326,900.32	1,326,900.32	512106-Gas Booster Station	06.06.2019	10190033	20190011 Dt.22.5.2019	
3	38	GBS	3804090150	Gas Leakage Detection System	1	1,123,767.00	1,123,767.00	512106-Gas Booster Station	24.04.2019	10190007	20190017 Dt.29.5.2019	20190278 Dt.30.8.2019
4	37	GBS	3709020617	Piston Rod	1	2,115,769.00	2,115,769.00	512106-Gas Booster Station	07.06.2019	10190036	20190051 Dt.18.2.2020	20190598 Dt.30.2.2020
5	36	GT	3603060004	Blade Kit- Turbine Rotor Stage-I	1	59,000,000.54	59,000,000.54	512102- Gas Turbine	17.06.2019	10190069	20190088 Dt.31.3.2020	20190693 Dt.31.3.2020
6	36	GT	3603110015	Nozzle Assembly Turbine Stage-III	1	45,815,251.54	45,815,251.54	512102- Gas Turbine	17.06.2019	10190069	20190079 Dt.16.3.2020	20190653 Dt.16.3.2020
7	36	GT	3603110024	Shroud Set Turbine Stage # 3	1	4,012,000.04	4,012,000.04	512102- Gas Turbine	17.06.2019	10190069	20190079 Dt.16.3.2020	
13	36		3603110024	Shroud Set Turbine Stage #3	1	4,012,000.04	4,012,000.04	512102- Gas Turbine	13.03.2020	10190186	20190079 Dt.16.3.2020	20190653 Dt.16.3.2020
14	36		3611090094	Quill Shaft for MOP	1	666,417.69	666,417.69	512102- Gas Turbine	12.03.2020	10190185	20190083 Dt.18.3.2020	20190661 Dt.18.3.2020
15	36		3611250006	90AF 30A, Complete Actuator, GTG#1'4, Rotork Make (WD-2220-00-02)	2	697,070.00	697,070.00	512102- Gas Turbine	13.03.2020	10190187	20200001 Dt.1.6.2020/ 20200040 Dt.31.3.2021	20200086 Dt.1.6.2020/ 20200712 Dt.31.3.2021
						TOTAL	119,608,607.85					
MATERIALS NOT UTILISED DURING THE YEAR												
1	37	GBS	3719000615	Actuator ASM Gas Regulating	1	827,967.07	827,967.07	512106-Gas Booster Station	11.06.2019	10190038	NIL	NIL
2	36	GT	3628020269	Seal Assy. With Seal Support Bars	1	1,619,204.94	1,619,204.94	512102- Gas Turbine	03.05.2019	10190009	NIL	NIL
3	36	GT	3628020311	Gear Box: GS315/GZ30	2	795,827.50	1,591,655.00	512102- Gas Turbine	14.05.2019	10190019	NIL	NIL
4	38	C&I	3804090141	Capacity Control VLV Actuator	2	775,088.68	1,550,177.36	512106-Gas Booster Station	14.06.2019	10190068	NIL	NIL

5	37	GBS	3717000293	Nozzle Ring	1	946,460.36	946,460.36	512105-Gas Booster Station	08.07.2019	10190055	NIL	NIL
6	39		3920010009	245 KV HV Bushing +15MVA Stationery Transformer	1	885,000.00	885,000.00	513113-Switch Yard Including Cable Connection	04.02.2020	10190156	NIL	NIL
7	39		3920000019	HV Bushing+50MVA Generator Transformer	1	885,000.00	885,000.00	513113-Switch Yard Including Cable Connection	04.02.2020	10190158	NIL	NIL
8	38		3800090006	P-N: 43969-00001Flame Detector Ignition System	1	3,111,026.00	3,111,026.00	512102- Gas Turbine	13.11.2019	10190115	NIL	NIL
9	38		3804050083	Chromatograph Natural Gas With Accessories	1	6,585,851.00	6,585,851.00	512106-Gas Booster Station	04.11.2019	10190107	NIL	NIL
10	38		3810011510	Complete Set of control VLV, CV-20/21	2	539,360.02	1,078,720.04	512174- Gas Steam turbine	05.11.2019	10190109	NIL	NIL
11	43		4305060224	Complete Cyclo Gear Model ZS6-616	1	728,650.00	728,650.00	512175-Cooling Tower	15.11.2019	10190117	NIL	NIL
12	35		3505010150	Thrust Bearing Assy/Thrust BRG (Complete Set)	1	5,619,600.00	5,619,600.00	512102- Gas Turbine	04.03.2020	10190178	NIL	NIL
13	35		3515000725	Instrument Air Compressor/Instrument Air Drier Exhaust Valve, Cyl Model	1	511,294.00	511,294.00	512102- Gas Turbine	04.03.2020	10190178	NIL	NIL
14	37		3700020699	16.25 Inch Cylinder Assy	1	13,710,636.00	13,710,636.00	512105-Gas Booster Station	02.03.2020	10190174	NIL	NIL
8	36		3600030197	Bearing Thrust/ Bearing Thrust Tilting Pad	1	619,509.00	619,509.00	512102- Gas Turbine	26.11.2019	10190120	NIL	NIL
9	36		3603020005	Nozzle Arrgt Turbine Stage I, Nozzle Arrgmt Stage 1 (PGMA-35118)	1	36,760,892.05	36,760,892.05	512102- Gas Turbine	13.03.2020	10190186	NIL	NIL
10	36		3603030007	Nozzle Arrgt Turbine Stage 2, 2nd stage nozz. Assy FR6B	1	56,305,848.00	56,305,848.00	512102- Gas Turbine	13.03.2020	10190186	NIL	NIL
11	36		3603040006	Nozzle Arrgt Turbine Stage 3, NIL	1	45,815,251.63	45,815,251.63	512102- Gas Turbine	13.03.2020	10190186	NIL	NIL
12	36		3603090002	Blade Kit Turbine Rotor Stage 3, NIL	1	38,309,837.94	38,309,837.94	512102- Gas Turbine	13.03.2020	10190186	NIL	NIL
15	38		3811250006	90AF 30A, Complete Actuator, GTG#14, Rotork Make (WD-2220-00-02)	2	697,070.00	697,070.00	512102- Gas Turbine	13.03.2020	10190187	NIL	NIL

						TOTAL	218,159,870.39					
				Total			337,768,478.24					

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Major Spares Capitalised -FY 2020-21

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2020-21 (Till 31-03-2021)

SL	ITEMS	QTY.	M Code	RATE	AMOUNT	HEAD OF ACCOUNT ALONG WITH CODE WHERE IN CAPITALISED	GRN NO	DATE (mm/dd/yy yy)	Ref JV NO	Capitalised During the year	QTY. ISSUED/UTILIZED TILL 31.03.2021	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR													
1	Bearing Set for LCB	1	7195550010010	9,764,607.00	9,764,607.00	512102 (Gas Turbine)	1E+07	24.04.2020	02200545	FY2020-21	1	20200029 Dt.5.12.2020	20200428 Dt.5.12.2020
2	Set of Bearing for MOP (1SET=4NOS)	1	3611000090	1,626,126.00	1,626,126.00	512102 (Gas Turbine)	1E+07	24.04.2020	02200545	FY2020-21	1	20200084 Dt.2.12.2020	20200434 Dt.2.12.2020
3	Blade Kit Turbine Rotor Stage-I Blade Kit Turbine Rotor	1	3503065004	59,000,000.00	59,000,000.00	512102 (Gas Turbine)	1E+07	26.06.2020	02200544	FY2020-21	1 SET	20200080 Dt.7.12.2020	20200432 Dt.7.12.2020
4	Cap & Liner Arrgt-Combustion , Comb Linear Assy(G-24)	4	7190301000S010	1,056,336.00	4,225,344.00	512102 (Gas Turbine)	1E+07	07.07.2020	02200668	FY2020-21	4 NO	20200100 Dt.30.1.2021	20200432 Dt.23.1.2021
5	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgms-35111)(G-26)	2	7190301000S020	1,056,336.00	2,112,672.00	512102 (Gas Turbine)	1E+07	07.07.2020	02200668	FY2020-21	1 NO	20200100 Dt.30.1.2021	
6	Case & Shroud Arrgt ,Turbine , Kit of 36 Shrouds Stage 1	1	7193051000150	8,896,029.44	8,896,029.44	512102 (Gas Turbine)	1E+07	09.07.2020	02200672	FY2020-21	1 No	20200083 Dt.2.12.2020	20200435 Dt.2.12.2020
7	Compressor wheel	1	8309002000S190	2,235,127.00	2,235,127.00	512105 (Gas Booster Station)	1E+07	27.07.2020	02200671	FY2020-21	1	20200024 Dt.31.8.2020	20200427 Dt.31.8.2020
8	Retainer Mechanism Com. Rmwheel Assy	1	3513000142	1,149,656.00	1,149,656.00	512102 (Gas Turbine)	1E+07	22.09.2020	02200763	FY2020-21	1 NO	20200085 Dt.6.12.2020	20200439 Dt.5.12.2020
9	Housing Assy Wastegate, 3 IN R.B	1	8309001000S010	943,443.00	943,443.00	512106 (Gas Booster Station)	1E+07	14.09.2020	02200766	FY2020-21	1 NO	20200026 Dt22.9.2020	20200389 Dt.31.8.2020
10	Housing Assy Wastegate, 3 IN R.B	1	8309001000S240	943,443.00	943,443.00	512106 (Gas Booster Station)	1E+07	14.09.2020	02200766	FY2020-21	1 NO	20200026 Dt22.9.2020	
11	Diverter Damper Air barrier Fan & Motor assy	1	7191451000S630	737,884.94	737,884.94	512102 (Gas Turbine)	1E+07	05.11.2020	02201250	FY2020-21	1 NO	20200059 Dt.14.12.2020	20200441 Dt.14.12.2020
12	Flame Detector (28FD) Miscellenous	2	8301201000S020	801,871.29	1,603,742.58	512102 (Gas Turbine)	1E+07	03.11.2020	02201252	FY2020-21	2	20200029 Dt.30.1.2021	20200591 Dt.23.1.2021
13	Actuator, Hakumann	1	8309002000S020	2,261,825.07	2,261,825.07	512106 (Gas Booster Station)	1E+07	08.10.2020	02201256	FY2020-21	1	20200032 Dt.30.9.2020	20200283 Dt.9.10.2020
14	Air Blaster Motor TDI	1	8309000000S250	689,844.52	689,844.52	512106 (Gas Booster Station)	1E+07	09.10.2020	02201257	FY2020-21	1	20200032 Dt.30.9.2020	
15	Bulk Acid Storage Tank, MOC; MSRL	1	7869001000S120	804,507.00	804,507.00	512175 (Cooling water system)	1E+07	16.10.2020	02201258	FY2020-21	1	20200069 Dt.20.10.2020	20200518 Dt.21.10.2020
16	Housing Assy Wastegate, 3 IN R.B	2	8309001000S010	1,009,413.63	2,018,827.26	512109 (Gas Booster Station)	1E+07	25/02/2021			1 NO	20200080 Dt.16.3.2021	20200693 Dt.20.3.2021
17	Cap & Liner Arrgt-Combustion , Linear AssyComb(pgms-35111)(G-26)	3	4030004099	1,056,336.00	3,169,008.00	512102 (Gas Turbine)	1E+07	7/7/2020			3 No	20200100 Dt.30.1.2021	20200572 Dt.22.1.2021
18	Piston Rod	1	7220103400S150	2,402,094.00	2,402,094.00	512106 (Gas Booster Station)	1E+07	29/01/2021			1 NO	20200081 Dt.16.3.2020	20200686 Dt.20.3.2020
19	Bearing Thrust Bearing Thrust Tilting Pad	1	3500030107	819,509.00	819,509.00	512102- Gas Turbine	1E+07	26.11.2019			1	20200004 Dt.20.4.2020	20200025 Dt.20.4.2020
20	Nozzle Arrgt Turbine Stage I, Nozzle Arrgmt Stage 1 (PSMA-35116)	1	3503020006	36,760,892.05	36,760,892.05	512102- Gas Turbine	1E+07	13.03.2020			1	20200091 Dt.21.12.2020	

21	Nozzle Arrgt Turbine Stage 2, 2nd stage (022, Assy FR58	1	3803030007	58,305,848.00	58,305,848.00	512102- Gas Turbine	1E+07	13.03.2020			1	20200087 Dt.21.12.2020	Dt.21.12.2020
22	Nozzle Arrgt Turbine Stage 3, NIL	1	3803040008	45,815,291.63	45,815,291.63	512102- Gas Turbine	1E+07	13.03.2020			1	20200091 Dt.21.12.2020	
23	Blade Kit Turbine Rotor Stage 3, NIL	1	3803080002	38,309,837.94	38,309,837.94	512102- Gas Turbine	1E+07	13.03.2020			1	20200090 Dt.7.12.2020	20200431 Dt.7.12.2020
24	SSAF 304, Complete Actuator, GTG#14, Rotork Make (WD-2220-00-02)	1	3811280005	697,070.00	697,070.00	512102- Gas Turbine	1E+07	13.03.2020			1	20200001 Dt.1.6.2020/ 20200040 Dt.21.2.2021	20200090 Dt.3.6.2020/ 20200713 Dt.23.6.2021
				TOTAL	393,092,591.43								
MATERIALS NOT UTILISED DURING THE YEAR													
1	CMR 325 Rexnord Make Thomash Coupling	1	7256300150020	605,871.00	605,871.00	512106 (Gas Booster Station)	1E+07	16.06.2020	02200381	FY2020-21		NIL	
2	CMR 325 Rexnord Make Thomash Coupling	1	8306001006130	1,290,920.00	1,290,920.00	512106 (Gas Booster Station)	1E+07	16.06.2020	02200381	FY2020-21		NIL	
3	Diaphragm Row-1	1	7191202000410	5,623,773.63	5,623,773.63	512102 (Gas	1E+07	03.08.2020	02200669	FY2020-21		NIL	NIL
4	Combustor Basket Assy ,Combustor Basket Unit 1-2-3-5	4	3502000064	2,390,645.00	9,562,580.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21	4 NO	NIL	NIL
5	Combustor Basket Assy ,Combustor Basket Unit 3-4	2	3502000079	2,390,645.00	4,781,290.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21	2 NO	NIL	NIL
6	Combustor Basket Assy ,Combustor Basket Unit 7-8	2	3502000083	2,390,645.00	4,781,290.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21	2 NO	NIL	NIL
7	Combustor Basket Assy ,Transition Piece	8	3502000107	2,576,646.38	20,613,171.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21	8 NO	NIL	NIL
8	Turbine Blade Ring & Static Row unit 1-2-3	32	7191052500030	536,198.00	26,758,335.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21	32 No	NIL	NIL
9	Turbine Blade Ring & Blade Static Row unit 1-2-3	2	7191052500120	1,207,630.50	2,415,261.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21		NIL	NIL
10	Turbine Blade Ring & Blade Static Row unit 1-2-3	20	7191052500060	1,284,711.52	25,694,230.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21		NIL	NIL
11	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RU)	1	7191052500080	1,284,712.00	1,284,712.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21		NIL	NIL
12	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (RD)	1	7191052500070	1,284,712.00	1,284,712.00	512102 (Gas Turbine)	1020040	03.08.2020	02200669	FY2020-21		NIL	NIL
13	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (LU)	1	7191052500090	1,284,712.00	1,284,712.00	512102 (Gas Turbine)	1020040	03.08.2020	02200669	FY2020-21		NIL	NIL
14	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,turbine Vane Unit-2 (LD)	1	7191052500090	1,284,712.00	1,284,712.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21		NIL	NIL
15	Turbine Blade Ring & Blade Static Row unit 1-2-3 ,supporter #1(Horizontal)	1	7191052500130	6,072,274.00	6,072,274.00	512102 (Gas Turbine)	1E+07	03.08.2020	02200669	FY2020-21		NIL	NIL
16	Bypass Valve Actuator	1	6316450702450	617,217.00	617,217.00	512174 (Steam Turbine)	1E+07	17.08.2020	02200673	FY2020-21		NIL	NIL
17	Discharge Valve Actuator	1	6316451200450	758,280.00	758,280.00	512174 (Steam	1E+07	17.08.2020	02200673	FY2020-21		NIL	NIL
18	Bearing Insulation	1	7160501004040	783,224.00	783,224.00	512174 (Steam	1020041	22.07.2020	02200670	FY2020-21		NIL	NIL
19	Module-DIAG , IGN PWR (IPM-D)	1	8309003048010	911,424.22	911,424.22	512106 (Gas Booster Station)	1E+07	11.09.2020	02200762	FY2020-21		NIL	NIL
20	LGB Coupling Hardware (Nut, Bolt washer) between GEN and Gear Box	1	7190550100030	1,908,838.20	1,908,838.20	512102 (Gas Turbine)	1E+07	07.07.2020	02200765	FY2020-21		NIL	NIL

21	Bearing, Thrust/Bearing Thrust Tilting Pad	1	7198104000060	619,509.44	619,509.44	512102 (Gas Turbine)	1E+07	02.11.2020	0220/251	FY2020-21		NIL	NIL
22	Pressure Indicator Controller (PIC) GBS Mfr Make	1	6313262280000	971,880.00	971,880.00	512106 (Gas Booster Station)	1E+07	04.11.2020	0220/253	FY2020-21		NIL	NIL
23	Load Coupling & Hardware	1	7190451500040	2,277,122.00	2,277,122.00	512102 (Gas Turbine)	1E+07	24.10.2020	0220/254	FY2020-21		Nil	nil
24	Housing Assy Wastegate, 3 IN R.B	2	8306001009024O	1,009,413.63	2,018,827.26	512106 (Gas Booster Station)	1E+07	25/02/2021				NIL	NIL
25	Housing Assy Wastegate, 3 IN R.B	1	8306001009057O	1,033,163.59	1,033,163.59	512106 (Gas Booster Station)	1E+07	23/02/2021				NIL	NIL
26	Housing Assy Wastegate, 3 IN R.B	1	8306001009056O	1,033,163.59	1,033,163.59	512106 (Gas Booster Station)	1E+07	23/02/2021				NIL	NIL
27	Cross Head	1	7250100150079O	1,615,212.00	1,615,212.00	512106 (Gas Booster Station)	1E+07	29/01/2021				NIL	NIL
28	Piston and rod assembly 23 Inch HCS	1	7258100000009O	3,314,123.60	3,314,123.60	512106 (Gas Booster Station)	1E+07	29/01/2021				NIL	NIL
29	Water Pump Kit	1	8306001009340O	512,673.14	512,673.14	512106 (Gas Booster Station)	1E+07	19/02/2021				NIL	NIL
30	Overhaul Kit, JW/Pump	1	8306001009339O	556,069.06	556,069.06	512106 (Gas Booster Station)	1E+07	19/02/2021				NIL	NIL
31	Mandatory Spares for VMS, Metrix Retrofit	1	6316550004880	5,222,125.00	5,222,125.00	512102 (Gas Turbine)	1E+07	1/2/2021				NIL	NIL
32	Suction Control Valve with Actuator, Full Set	2	6319456200345O	1,847,295.00	3,694,590.00	512106 (Gas Booster Station)	1E+07	25.02.2021				NIL	NIL
33	MBL Piston, 9:1 275 Diameter	1	8306001009325O	603,666.41	603,666.41	512106 (Gas Booster Station)	1E+07	19/02/2021				NIL	NIL
34	EXT.NWORK.PROT.SRTY.OF.ABT MONIT.SYS.FOR.INTEGRATION OF OTHER SYSTEM	1	6319905086000O	896,800.00	896,800.00	512102 (Gas Turbine)	1E+07	02.03.2021				NIL	NIL
35	SILICA ANALYZER WITH PANEL	1	6309107701000O	725,700.69	725,700.00	512174 (Steam Turbine)	1E+07	31.03.2021				NIL	NIL
				TOTAL	142,223,423.14								
				TOTAL	426,316,014.57								

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Major Spares Capitalized -FY 2021-22

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2021-22 (Till 31.03.2022)

SL	ASSET DESCRIPTION	ID	MATFIN CODE	AMOUNT	SAP ASSET VALUE DATE	Capitalised During the year	QTY. ISSUED/UTILIZED TILL 31.03.2022	Division	COD	Nature	Spares Life	MRN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR													
1	ACTUATOR,HEINZMANN:GAS ENGINE-WAUKESHA:1		3000050003	4,742,068.06	09.04.2021	2021-22	0	Clarke/sfc	09.04.2021	Capital Spare	More than 3 years	717 Dt.26.4.2021	4900000661 Dt.13.4.2021
2	MODULE-DIAG,IGN PWR(IPM-D):GAS ENGINE		83050020048010	555,755.94	09.04.2021	2021-22	0	Clarke/sfc	09.04.2021	Capital Spare	More than 3 years	87 Dt.10.5.2021	4900000053 Dt.13.04.2021
3	Actuator,HEINZMANN:GAS ENGINE-WAUKESHA:1		3000000447	1,033,466.23	30.12.2021	2021-22	1	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	1958 Dt.19.03.2022	4900000092 Dt.26.3.2022
4	Circuit Breaker		3000050351	1,848,719.50	15.12.2021	2021-22	6	Switchyard	15.12.2021	Capital Spare	More than 3 years	1719 Dt.23.3.2022	4900001875 Dt.28.3.2022
5	Gas Compressor Piston Rod Assembly for Gas Boster		3000000571/ 72503002000030	3,512,071.06	28.03.2022	2021-22	2 Nos	SFC/GBS	28.03.2022	Capital Spare	More than 3 years	2046 Dt.28.3.2022 & 367 Dt.2.6.2021	4900001109 Dt.28.3.2022 & 4900000415 Dt.2.6.2021
6	Spares of Steam Turbine Model HNK-71/2.8/32-4, 30 MW		3000000434	1,655,630.80	14.03.2022	2021-22	0	STG	14.03.2022	Capital Spare	More than 3 years	2029 Dt.26.3.2022	4900001087 Dt.28.3.2022
7	Bulk Acid Storage Tank			1,466,071.54									
8	VT Pump			879,122.50									
9	VT Pump			879,122.50									
			TOTAL	19,899,927.07									
MATERIALS NOT UTILISED DURING THE YEAR													
1	1ST STG NOZZLE BODY&DIFUS-MAIN EJEC (Spares for Steam Air Jet Ejector : Condenser a/r		3000000038	1,973,479.20	29.04.2021	2021-22	0	shell/st	29.04.2021	Capital Spare	More than 10 years	NIL	
2	2ND STG NOZZLE BODY&DIFUS-MAIN EJECTOR (Spares for Steam Air Jet Ejector : Condenser a/r)		3000000039	1,647,884.80	29.04.2021	2021-22	0	shell/st	29.04.2021	Capital Spare	More than 10 years	NIL	
3	BASIC TURBO CHARCER WAUKESHA 12V 275GL+		3000000012	8,256,256.90	26.06.2021	2021-22	0	SFC/GBS	26.06.2021	Capital Spare	More than 3 years	NIL	
4	Cylinder Head Assembly		3000000011	1,736,217.60	31.12.2021	2021-22	0	SFC/GBS	31.12.2021	Capital Spare	More than 3 years	NIL	
5	Assembly NDM		3000000446	516,510.70	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	NIL
6	MODULE-DIAG,IGN PWR(IPM-D):GAS ENGINE		83050030048010	587,572.32	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	NIL
7	Nozzle Ring		72503057000289	964,212.15	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	
8	Compressor Wheel		3000000445	2,408,944.73	30.12.2021	2021-22	0	SFC/GBS	30.12.2021	Capital Spare	More than 3 years	NIL	NIL
9	Spares for Cooling tower		3000000392	2,236,999.00	16.06.2021	2021-22	0	STG	16.06.2021	Capital Spare	More than 3 years	NIL	NIL
10	Compressor Casing Complete-72		3000000565	693,376.29	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
11	Wall Insert-77000		3000000566	944,570.00	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
12	Turbine Casing-81000		3000000567	1,040,259.68	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
13	Nozzle Ring(Spares)		3000000568	964,212.22	25.02.2022	2021-22	0	SFC/GBS	25.02.2022	Capital Spare	More than 3 years	NIL	
14	Spares for GBS Wauksa		3000000575	2,209,140.10	16.03.2022	2021-22	0	SFC/GBS	16.03.2022	Capital Spare	More than 3 years	NIL	
15	Mandatory Spares for Circuit Breaker			781,500.00	12.08.2021	2021-22	0	STG	12.08.2021	Mandatory Spares	More than 3 years	Nil	

			TOTAL	28,490,037.28									
			TOTAL	43,263,640.35									

Major Spares Capitalized -FY 2022-23

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2022-23 (Till 31-03-2023)

ID	SL NO	ASSET DESCRIPTION	ID	MAT'F IN CODE	SAP MATERIAL CODE	AMOUNT	SAP DOC NO	SAP ASSET VALUE DATE	Capitalised During the year	Division	COD	Nature	Spares Life	QTY. ISSUED/UTILIZED TILL 31.03.2023	MRN WITH DATE	MW WITH DATE
MATERIALS UTILISED DURING THE YEAR																
101305000021	2	ACTUATOR ASM, GAS REGULATING:GAS ENGINE	101305000021		3000000684	555,156.78	2.219E+09	30.06.2022	2022-23	GBS, SFC	30.06.2022	CAPEX	More the 3 years		8752 Dt.22.03.2023	4900019423 Dt.30.06.2023
101305000021	3	Gas Compressor, 23 Inch Piston & Rod ass	101305000021		3000000671	3,512,548.00	2.219E+09	21.07.2022	2022-23	GBS, SFC	21.07.2022	CAPEX	More the 3 years	1 No	4515 Dt.6.12.2022	4900025283 Dt.6.12.22
101305000021	4	ACTUATOR	101305000021		3000000447	1,122,135.66	2.219E+09	01.10.2022	2022-23	SFC	01.10.2022	CAPEX	More the 3 years	1	4633 Dt.17.11.2022	4900004789 Dt.17.11.2022
101327000025	6	6.6 KV, 850 KW Vertical CW Pump Motor	101327000025		3000001079	7,740,328.00	2.219E+09	16.02.2023	2022-23	ST	16.02.2023	CAPEX	More the 3 years	1	6399 Dt.6.3.2023	4900006479 Dt.6.3.2023
101311000053	7	SCROLL CONVEYOR ASSEMBLY: CETRIFUGE	101311000053		3000000877	1,226,226.00	2.219E+09	17.03.2022	2022-23	SFC	17.03.2022	CAPEX	More the 3 years	1	4937 Dt.7.12.2022	4900003731 Dt.7.12.2022
101306000021	8	ACTUATOR,HEINZ MANN:GAS ENGINE-WAUKESHA	101306000021		3000000009	5,996,136.00	2219023050 & 2219023052	31.01.2023	2022-23	SFC	31.01.2023	CAPEX	More the 3 years	2	3582 Dt.26.09.2022/ 6249 Dt.28.2.23	4900020799 Dt.26.09.2022/4 900006878 Dt.28.2.23
					TOTAL	20,152,624.44										
MATERIALS NOT UTILISED DURING THE YEAR																
101305000021	1	NBL PISTON 9:1 275 ENGINE/12V 275 GL+	101305000021		3000000992	2,261,970.60	2.219E+09	10.05.2022	2022-23	GBS, SFC	10.05.2022	CAPEX	More the 3 years		NIL	
101305000021	2	NBL LINER CYL ENGINE ENGINE-12V 275GL+	101305000021		3000000993	1,075,393.68	2.219E+09	10.05.2022	2022-23	GBS, SFC	10.05.2022	CAPEX	More the 3 years		NIL	
101305000021	3	Module, Ignition Control(WCM), Gas Engin	101305000021		3000000445	1,035,477.14	2.219E+09	30.06.2022	2022-23	GBS, SFC	30.06.2022	CAPEX	More the 3 years		NIL	
101305000021	4	CYLINDER 23 INCH FOR GBS	101305000021		3000001159	20,562,290.00	2.219E+09	31.03.2023	22-23	SFC	31.03.2023	CAPEX	More the 3 years		NIL	
101305000021	5	PISTON & ROD:GBS GAS	101305000021		3000000596	2,545,611.00	2.219E+09	19.10.2022	2022-23	SFC	19.10.2022	CAPEX	More the 3 years		NIL	
101305000021	6	AIR STARTER MOTOR 293456L 12V 275GL+	101305000021		3000001077	832,118.45	2.219E+09	11.01.2023	2022-23	SFC	11.01.2023	CAPEX	More the 3 years		NIL	
101327000020	7	UPPER PART OF BEARING SHELL 57G 30MW	101327000020		3000000435	921,330.40	2.219E+09	31.07.2022	2022-23	ST	31.07.2022	CAPEX	More the 3 years		NIL	
101327000025	9	STEAM TURBINE ROTOR	101327000025		3000001071	47,856,163.00	2.219E+09	25.10.2022	2022-23	ST & Aux	25.10.2022	CAPEX	More the 3 years		NIL	

101311000002	9	COMP. CO MODEL ZSE-25 H/MBOLDT WEDAG	101311000002		3000000978	791,156.00	2.219E+09	17.05.2022	2022-23	SFC	17.05.2022	CAPEX	More the 3 years		NIL	
101801000599	10	KIRLOSKER PUMP	101801000599		3000001073	621,491.92	2.219E+09	31.10.2022	2022-23	ST & Aux	31.10.2022	CAPEX	More the 3 years		NIL	
101302000177	11	PROPELLER SHAFT TRANSVERSE DRIVE	101302000177		3000000989	2,192,772.00	2.219E+09	22.08.2022	2022-23	SFC	22.08.2022	CAPEX	More the 3 years		NIL	
101302000177	12	ROTORK GEAR BOX RH SIDE	101302000177		3000000990	4,295,325.00	2.219E+09	23.11.2022	2022-23	SFC	23.11.2022	CAPEX	More the 3 years		NIL	
101302000177	13	ROTORK GEAR BOX LH SIDE	101302000177		3000000991	4,295,325.00	2.219E+09	23.11.2022	2022-23	SFC	23.11.2022	CAPEX	More the 3 years		NIL	
101302000177	14	TORQUE CONVERTER TWINDISC 4-SGE-2015-1	101302000177		3000001072	19,049,420.00	2.219E+09	31.01.2023	2022-23	ST	31.01.2023	CAPEX	More the 3 years		NIL	
101305000021	1	Head Cylinder - WAUKESHA 12 V275GL+	101305000021		3000000011	2,109,754.15	2.219E+09	10.06.2022	2022-23	SBS SFC	10.06.2022	CAPEX	More the 3 years		6993 Dt.19.6.2023	4900007857 Dt.22.6.2023
101327000325	5	SPI-MOTOR IS 325 4POLE-1500RPM 75KW-3905	101327000325		3000001006	650,048.35	2.219E+09	17.08.2022	2022-23	ST	17.08.2022	CAPEX	More the 3 years		9515 Dt.1.11.2023	4900109963 Dt.6.11.2023
101302000177	8	FLAME DETECTOR 315A2708P001 (28FD)	101302000177		3000001363	1,870,330.72	2.219E+09	12.08.2022	2022-23	C&I	12.08.2022	CAPEX	More the 3 years		9741 Dt.24.11.2023	4900109962 Dt.24.11.2023
101302000177	10	50 MVA GT (BHEL)	101302000177		3000002974	53,510,000.00	221902633 6 & 221902633 7	17.03.2023	2022-23	PPM	17.03.2023	CAPEX	More the 3 years			4900010037 dtd. 28/12/2023
					TOTAL	159,630,925.62										
					TOTAL	179,783,469.04										

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Major Spares Capitalised -FY 2023-24

SCHEDULE OF STORES OF SPARES CAPITALISED DURING 2023-24 (Till 31.03.2024)

SL NO	ASSET DESCRIPTION	ID	MAPIN CODE	SAP MATERIAL CODE	AMOUNT	SAP DOC NO	SAP ASSET VALUE DATE	Capitalised During the year	QTY. ISSUED/UTILIZED TILL 31.03.2024	Division	COD	Nature	Spares Life	MIN WITH DATE	MIN WITH DATE
MATERIALS UTILISED DURING THE YEAR															
1	REDUCTION GEAR UNIT(SR 56 GROP)	101027000004		3000000350	2,239,660.00	2950001016	25.08.2023	2023-24		ST & Aux				9005 Dt:23.9.2023	4900010882 Dt: 23.9.2023
2	Housing Assy Wastegate 3 in LB WAUKESHA	101205000023	E0990010090249	3000000613	2,535,250.00					gas			1 NO	9137 Dt:6.10.2023	4900009170 Dt:6.10.2023
4	Gas Compressor, 23 inch Piston & Rod ass	101205000023		3000000571	2,089,715.00				1 No					11459 Dt:26.03.2024	4900011581 Dt:26.3.2024
5	50 MVA GT	101329000197			4932084.00									10189 Dt:20.11.2023	4900010572 Dt: 20.11.2023
6	VERTICAL TURBINE PUMP (INTAKE)	101327000326		3000001697	1,475,000.00									10498 Dt:27.1.2024	4900010666 Dt: 27.1.2024
7	Head Cylinder - WAUKESHA 12 V275GL+	101305000021		3000000011	2,108,764.16									6995 Dt:19.4.2023	4900007087 Dt:19.4.2023
8	3PhMOTOR IS:325 4POLE-1500RPM 75kW-3856	101327000325		3000001005	560,046.35									8515 Dt:1.11.2023	4900009063 Dt:1.11.2023
9	FLAME DETECTOR 3350270BP001 (28FD)	101302000177		3000001053	1,876,335.73									3741 Dt:24.11.2023	4900009863 Dt:24.11.2023
10	20 MVA GT (BHEL)	85302000177		3000001074	52,510,000.00										4900030057 dtd: 26/11/2013
				TOTAL	73,337,796.23										
MATERIALS NOT UTILISED DURING THE YEAR															
1	ACTUATOR,HEINZMANN GAS ENGINE-WAUKESHA 1	101205000023		3000000063	5,986,136.28	5319007458	12.06.2023	2023-24		GBS, SFC				NIL	NIL
2	ACTUATOR,HEINZMANN GAS ENGINE-WAUKESHA 1	101305000021		3000000063	1147809.00			2023-24		GBS, SFC				NIL	NIL
3	Module, Ignition Control (NOX), Gas Engine	101305000053		3000000446	570008.00			2023-24		GBS, SFC				NIL	NIL
4	Housing Assy Wastegate 3 in RB WAUKESHA	101205000023		3000000014	2,089,915.00					gas				NIL	NIL
5	ACTUATOR,HEINZMANN GAS ENGINE-WAUKESHA 1	101329000327		3000000063	2,013,857.00									NIL	NIL
6	Gas Compressor, 23 inch Piston & Rod ass	101205000023			43,000.27									NIL	NIL
7	CapitalSparesforFY2023-24_GT				2,991,000.00									NIL	NIL
8	CHROMATOGRAPH-GAS ROSEMOUNT 5P	101205000123		3000001694	988,725.00									NIL	NIL
				TOTAL	16,127,360.47										
				TOTAL	89,465,056.70										

m3010r2 NEEPCO Ltd.
DATE : 16/08/2024 AGBPP PAGE : 1 of1

7 C CODES INDIGENOUS IMPORTED /----->

MATERIAL ISSUE NOTE

DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS

ISSUE STORE:MAM

COST CENTRE:(1020)GAS BOOSTER STATION

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0271	20190011	22.05.2019	20190137	10.06.2019				1	1000

2019-20.

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE	
1	37190001469	NBL/PISTON,9:1 275 DIAMETER							287304	NO
1.000	1.000	Rs8,37,432.00	Rs8,37,432.00	2	0.000	N.Stk	1.000	10190034	07/06/2019	
2	37190001478	NBL/LINER,CYLINDER							287230D	NO
1.000	1.000	Rs3,88,490.00	Rs3,88,490.00	2	0.000	N.Stk	1.000	10190034	07/06/2019	
3	37190001496	NBL/HEAD,CYLINDER,ASM							AD287002A	NO
1.000	1.000	Rs13,28,900.00	Rs13,28,900.00	2	0.000	N.Stk	0.000	10190033	06/06/2019	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

Sl. no (1), (2)

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m3810x2
DATE : 16/08/2024

NEEPCO Ltd.
AGBPP

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MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS | CB

ISSUE STORE:

COST CENTRE:(3013)CONTROL & INSTRUMENTATION

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.:C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQCISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
01	10	0267	20190017	29.08.2019	20190278	30.08.2019				1	1000

2019-20

Sl. No. (3)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	BSL BALANCE	GRN No	GRN DATE
1	30040901S0	GAS LEAKAGE DETECTION SYSTEM, HONEYWELL							NO
1.000	1.000	Rs1.00	Rs1.00	3	0.000	N.Stk	0.000	10190007	24/04/2019
2	38100101D0	V65-VA2D|4 Inch|Gasket Set-V-543-555 ANSI 300,IL Palghat							ILP/COD-20 ST 21204 SLNO 52
1.000	1.000	Rs6,169.50	Rs6,169.50	3	1.000	N.Stk	1.000	10120180	03/12/2012
4	38100101J7	V5E-VA2D|4 Inch|Seal Ring Cv65-ANSI 300,IL Palghat							NO
1.000	1.000	Rs11,622.00	Rs11,622.00	3	0.000	N.Stk	0.000	1500263	22/03/2007

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

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DATE : 16/08/2024

NEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS

ISSUE STORE:MAW

COST CENTRE:(1020)GAS BOOSTER STATION

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0271	20190081	18.02.2020	20190598	20.02.2020				1	1003

2019-20

Sl.no (4)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3719000581 COIL,IGNITION H/LEAD							69557	NO
1.000	1.000	Rs48,009.00	Rs48,009.00	8	3.000	N.Stk	10.000	10180082	26/07/2018
2	3719000059 EXTENSION,ASM,SPARK PLUG(275GL+)							A296066E	NO
1.000	1.000	Rs7,289.96	Rs7,289.96	5	23.000	N.Stk	23.000	10190037	04/05/2019
3	3700020617 PISTON&RCO							NEJENR1621	NO
								91	
1.000	1.000	Rs1.00	Rs1.00	7	0.000	N.Stk	1.000	10190096	07/06/2019
4	3700020671 GASKET							N139621A	NO
4.000	4.000	Rs1,419.86	Rs5,679.43	7	3.000	N.Stk	1.000	10180164	10/01/2019
5	3719000004 WADKESHA MAKE SPARK PLUG							696196	NO
12.000	12.000	Rs21,003.86	Rs2,52,046.50	26	36.000	N.Stk	24.000	10190073	04/09/2019
6	3701000816 GAS ENGINE,Kit-Admission Valve Repair							211665D	NO
12.000	12.000	Rs39,467.40	Rs4,73,848.81	64	13.000	N.Stk	24.000	10190073	04/09/2019

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

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DATE : 16/08/2024

NEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS FOR MI OF GT&S

ISSUE STORE:MSW
COST CENTRE:[3101]GT & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQISITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20190088	31.03.2020	20190693	31.03.2020			1		1000

2019-20

81.40(5)

SL	MAIL.CODE	MATERIAL DESCRIPTION							SUPP. PART	UM		
	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE		
1	3609020529	CLEANER, 280/330 ML.CAN.CHECKMATE								NO		
	44.000	44.000	Rs.00	Rs.00	71	0.000	N.Stk	50.000	10180136	20/11/2018		
4	3603110033	CASE ARGT.TURBINE/KEY FOR SHROUD STAGE#3								279A1659P0 NO 02/3511217 9		
	28.000	28.000	Rs7,349.32	Rs2,05,781.00	6	0.000	N.Stk	0.000	10140018	03/05/2014		
5	3603110042	CASE ARRGT.TURBINE/KEY FOR SHROUD STAGE#3								279A1660P0 NO 02/3511214 1		
	2.000	2.000	Rs7,487.00	Rs14,974.00	6	0.000	N.Stk	0.000	10130218	11/03/2014		
6	3603000222	CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2								213B1362P0 NO 01/3511213 8		
	2.000	2.000	Rs3,447.00	Rs6,894.00	7	0.000	N.Stk	0.000	10190123	30/11/2019		
7	3603000231	CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2								213B1363P0 NO 01/3511213 7		
	34.000	34.000	Rs12,793.56	Rs4,34,901.00	8	0.000	N.Stk	0.000	10190122	29/11/2019		
8	3603110105	CASE ARRGT.TURBINE/PIN SHROUD STAGE#2								35112133 NO		
	28.000	28.000	Rs3,282.71	Rs91,956.00	7	0.000	N.Stk	0.000	10190122	29/11/2019		

9	3603110194	CASE ARRGT. TURBINE/PIN SHROUD STG#2										35112134 ND
	2.000	2.000	Rs5,350.50	Rs10,701.00	2	0.000	N.Stk	0.000	10120230	02/03/2013		
10	3603110209	PIN SHROUD STG#2										35112132 ND
	2.000	2.000	Rs6,173.00	Rs12,346.00	2	0.000	N.Stk	0.000	10120230	02/03/2013		
11	3603110219	CASE ARROT.TURBINE/PIN SHROUD STG#3										35112136 ND
	30.000	30.000	Rs2,679.30	Rs80,259.00	2	0.000	N.Stk	0.000	10120233	07/03/2013		
12	3609032418	MARKIN CLOTH(NAGRAJ BRAND)										NR
	315.000	315.000	Rs42.38	Rs13,350.53	132	1684.756	N.Stk	3997.000	10180116	01/11/2018		
13	3603090004	BLADE KIT -TURBINE ROTOR STAGE -1,BLADE KIT -TURBINE ROTORS										G-3971/353 ST 56090
	1.000	1.000	Rs5,90,00,001.00	Rs5,90,00,006.00	8	0.000	N.Stk	0.000	10190069	17/09/2019		
14	3602010112	CAP SCREW HEAD SOCKET M12X30										MYAA712312 NO 3239
	1.000	1.000	Rs1.00	Rs1.00	3	60.000	N.Stk	65.000	6011	24/03/2009		
15	3604030299	ST EXHAUST FRAME & PLENUM ASSY.,Exp Joint Segment Sheet										279A1146P0 NO 01/3591240 9
	14.000	14.000	Rs29,484.71	Rs4,12,786.00	7	14.000	N.Stk	14.000	10130218	11/03/2014		

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

=3816r2
DATE : 16/08/2024

NEEPCO Ltd.
AGBPP

PAGE : 1 of1

MATERIAL ISSUE NOTE

T C CODES — INDIGENOUS IMPORTED /------>

DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF 0285

ISSUE STORE:M99

COST CENTRE:(3101)ST & AUXILIARY

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQSITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ SO.	M.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	RD190075	16.03.2020	20190653	16.03.2020				1	1000

2019-20
Sl. No (6), (7)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/M.St	PSL BALANCE	GRN No	GRN DATE
1	3603110024 SHROUD SET TURBINE STAGE#3								329A323GGC NO 02/3511205 0
1.000	1.000	Rs10,12,000.00	Rs10,12,000.00	6	1.000	N.Stk	0.000	10190089	17/08/2019
2	3603110015 NOZZLE ASSEMBLY TURBINE STAGE#3								109E913G00 NO 3/113E8442 G007
1.000	1.000	Rs4,58,15,252.00	Rs4,58,15,252.00	4	0.000	N.Stk	0.000	10190069	17/08/2019
3	3603020036 CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,LINER BRG-1								G-2331/142 NO 9491DG001
1.000	1.000	Rs2,35,517.00	Rs2,35,517.00	6	0.000	N.Stk	0.000	10190153	29/01/2020
4	3604010002 BEARING ASSY NO.2,LINER BRG-2								G-2446/352 NO 01030
1.000	1.000	Rs1,80,067.00	Rs1,80,067.00	4	0.000	N.Stk	0.000	10190185	12/03/2020
5	3600020045 CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,Deflectors								35101020 ST
1.000	1.000	Rs2,30,583.00	Rs2,30,583.00	5	0.000	N.Stk	0.000	10190120	28/11/2019
6	3611000021 BEARING SET OF AGB								ST
1.000	1.000	Rs14,55,264.00	Rs14,55,264.00	6	0.000	N.Stk	0.000	10190164	13/02/2020
7	3611000030 SET OF BEARING FOR MOP(1SKF-4SCS)								ST
1.000	1.000	Rs16,26,126.00	Rs16,26,126.00	6	0.000	N.Stk	0.000	10190164	13/02/2020

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8	3611000058 BOWEX COUPLING FOR NMDP										NO
	1.000	1.000	Rs1,91,915.00	Rs1,91,915.00	9	0.000	N.Stk	0.000	10190164	13/02/2020	
9	3611000128 AUXILLIARY GEAR BOX/O RING 59(FLENDER DRG.POS.NO.467)									FLENDER CODE:N3842 3	NO
	1.000	1.000	Rs14,962.00	Rs14,962.00	2	0.000	N.Stk	0.000	10190164	13/02/2020	
10	3611000119 AUXILLIARY GEAR BOX/O RING 8(FLENDER DRG.POS.NO.22)									FLENDER CODE:N3842 3	NO
	1.000	1.000	Rs14,962.00	Rs14,962.00	2	0.000	N.Stk	0.000	10190164	13/02/2020	
11	3611000085 AUXILLIARY GEAR BOX/DEFLECTOR FOR AGB(FLENDER DRAW & POS. NO. 213 AND 220)									CODE:29751 00 050004	
	1.000	1.000	Rs2,30,125.50	Rs2,30,125.50	2	1.000	N.Stk	0.000	10190164	13/02/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m3610r2 NBEPCO Ltd. PAGE : 1 of1
DATE : 30/08/2024 AGBPP

T C CODES INDIGENOUS IMPORTED /-----> MATERIAL ISSUE NOTE

DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

\-----> /----------|----------|----------
REMARKS |ISSUE STORE:MAIN | ISSUE AUTHORISED BY
FOR MI OF |----------
GT#5 |COST CENTRE:[3101]GT & AUXILIARY
|----------
|CONTRACTOR:
|----------
|WORK DETAILS:
|AGREEMENT NO. DATE:
|----------
|INDENTING DEPT.:GT&AUX DIVN
\----------|----------//

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQSITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20200034	28.04.2020	20200025	28.04.2020				1	1000

2019-20
Sl. no. (8)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3602010051 COMBUSTION CHAMBER ARRGT.,BOLT 12 POINT HEAD M 20X75							HYGT975117 NO 8010/35198 002	
21.000	21.000	Rs.00	Rs.00	14	77.000	N.Stk	47.000	10120230	02/03/2013
								10130218	11/03/2014
								10160126	02/11/2015
2	3600030187 BEARING,THRUST/BEARING THRUST TILTING PAD							35204015 NO	
1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	1.000	10196120	28/11/2019
3	3600030114 BEARING,THRUST/BEARING THRUST							35204010/1 NO 6402817G00 2	
1.000	1.000	Rs3,51,167.00	Rs3,51,167.00	3	1.000	Stock	0.000	10120230	02/03/2013
4	3602020069 TRANSITION PIECE ARRGT.-COMBUSTION,SEAL AFT SIDE							HY35115001 NO 6001/35115 001	
10.000	10.000	Rs22,403.32	Rs2,24,033.16	12	9.000	N.Stk	9.000	10140040	09/06/2014
								10140161	08/12/2014
5	3602020175 TRANSITION PIECE ARRGT.-COMBUSTION,TP Seal Stop MS6001							2198678800 NO 01/3511500 9	
10.000	10.000	Rs12,401.10	Rs1,24,011.00	12	10.000	N.Stk	10.000	10140160	08/12/2014
6	3602020087 TRANSITION PIECE ARRGT.-COMBUSTION,BOLT BODY BOUND							HY35115010 NO 4001	

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	20.000	20.000	Rs1,748.03	Rs34,960.69	4	5.000	N.Stk	5.000	2795	15/05/2006
									10140161	08/12/2014
7	36020201111 TRANSITION PIECE ARRGT.-COMBUSTION,LOCK PLATE BULL HORN									HY35115013 NO 6001/35115 013
	2.000	2.000	Rs4,383.24	Rs8,766.48	11	19.000	N.Stk	17.000	10090248	03/02/2010
									10130218	11/03/2014
8	36020201261 TRANSITION PIECE ARRGT.-COMBUSTION,LOCK PLATE BULL HORN									HY35115014 NO 6001
	2.000	2.000	Rs5,743.00	Rs11,486.00	10	19.000	N.Stk	17.000	10090248	03/02/2010
									10120230	02/03/2013
9	36020202361 TRANSITION PIECE ARRGT.-COMBUSTION,TP Bolt/BOLT GROOVLOCK									216B6753P0 NO 02/3511501 6
	10.000	10.000	Rs3,977.50	Rs39,775.00	6	10.000	N.Stk	0.000	10120232	07/03/2013
10	36020201391 TRANSITION PIECE ARRGT.-COMBUSTION,LOCK PLATE(SIDE SEAL RETAINER)									HY35115015 NO 6001
	10.000	10.000	Rs6,443.17	Rs64,431.67	12	14.000	N.Stk	4.000	10120232	07/03/2013
									10140140	08/12/2014
11	36020202451 TRANSITION PIECE ARRGT.-COMBUSTION,TP Pin Pin									35115017/2 NO 19B6731P00 2
	10.000	10.000	Rs8,342.00	Rs83,420.00	4	20.000	N.Stk	10.000	10090248	03/02/2010
12	36031103851 CASE ARRGT.TURBINE/PLUG PIPE(SHROUD STG#1&2)								35113122	NO
	10.000	10.000	Rs1,631.94	Rs16,319.35	3	52.000	N.Stk	52.000	10150122	29/11/2019
13	36090202191 SS WELDING ROD 308(36N)2.5MM(ESAB)									DK
	1.000	1.000	Rs1,190.50	Rs1,190.50	30	1.000	N.Stk	0.000	10190169	22/02/2020
14	36090324181 MARKIN CLOTH(NAGRAJ BRAND)									MR
	268.000	268.000	Rs42.38	Rs11,358.64	134	1344.750	N.Stk	3997.000	10180116	01/11/2018
15	36031101211 CASE ARRGT. TURBINE/PLUG CLEARANCE BOLT									35112062/2 NO 19B1358P00 1
	1.000	1.000	Rs9,510.75	Rs9,510.75	6	7.000	N.Stk	1.000	10190136	28/12/2019

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m3810x2
DATE : 30/08/2014

HEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS : FOR MI OF 0296

ISSUE STORE:MAIN

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20200091	21.12.2020	20200456	21.12.2020				1	1000

2019-20
Slno. 9,10,11

SL	MAIL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	ESL BALANCE	GRN No	GRN DATE	
1	3609032418 MARKIN CLOTH(NAGRAJ BRAND)									NR
858.750	858.750	Rs26.21	Rs22,511.84	193	4869.000	N.Stk	3997.000	10200125	01/12/2020	
2	3603030607 NOZZLE ASSGT TURBINE STAGE 2,2nd stage Nozz. Assy FR6B							11TH800200	01/1196243	ST
								40000		
1.000	1.000	Rs1.00	Rs1.00	4	0.000	N.Stk	0.000	10190186	13/03/2020	
3	3603040006 NOZZLE ASSGT TURBINE STAGE 3,MIL							35127000		NO
1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	0.000	10190186	13/03/2020	
4	3609000275 GASKET SHEET 2MM THICK,KLINGER (K GILIT,PER PS 18 SG APPROX)									PS
1.000	1.000	Rs9,027.50	Rs9,027.50	11	1.000	N.Stk	1.000	10160081	11/08/2016	
5	3609020389 MOLYKOTE, 1000, CU PLUS.									NO
1.000	1.000	Rs2,055.83	Rs2,055.83	25	5.000	N.Stk	7.000	10130139	04/10/2013	
6	3609031035 EMERY TAPE(FINE GRADE)SIZE:50MM(W)X50MTRS(L)									RO
2.500	2.500	Rs766.80	Rs1,917.00	5	0.000	N.Stk	0.000	10196189	30/03/2020	
7	3605000915 PIPING ASSGT, COOLING & SEALING,GASKET MSW 4IN @ 150							NTKY724036	1101/35507	NO
								236		
2.000	2.000	Rs1,413.75	Rs2,827.50	13	14.000	N.Stk	0.000	10160126	02/11/2016	
8	3609031284 GRINDING WHEEL,SIZE:400DX16MMX100MM(MAKITA)									PS
10.000	10.000	Rs53.64	Rs536.36	22	29.000	N.Stk	9.000	10190199	20/03/2020	

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9	3603020008 NOZZLE ASSBY TURBINE STAGE 1,NOZZLE ASSEMBLY STAGE 1 (PGNA-35118)									G-2145/351 NO 19000
	1.000	1.000	Rs1.00	Rs1.00	4	0.000	N.Stk	0.000	10190186	13/03/2020
10	3602020175 TRANSITION PIECE ASSBY.-COMBUSTION,TP Seal Stop MS6001									219867869O NO 01/3511500 9
	10.000	10.000	Rs10,724.65	Rs1,07,246.50	14	10.000	N.Stk	10.000	10190122	29/11/2019

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m381042
DATE : 30/08/2024

HEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF G7#6

ISSUE STORE:NSM
COST CENTRE:|3101|GT & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GTsAUX DIVN

ISSUE AUTHORISED BY

IC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20200090	07.12.2020	20200432	07.12.2020				1	1000

2019-20.
Sl. no (12)

SL	MAIL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UN
	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	FSL BALANCE	GRN No	GRN DATE
1	3609532418	MARKIN CLOTH(MAGRAJ BRAND)								NR
	146.000	146.000	Rs26.21	Rs3,827.33	152	5727.750	N.Stk	3997.000	10200129	01/12/2020
2	3603110185	CASE ARMST.TURBINE/PIN SHROUD STAGE#2							35112133	NO
	28.000	28.000	Rs3,262.71	Rs91,356.00	9	0.000	N.Stk	0.000	10200002	24/04/2020
3	3603110194	CASE ARMST. TURBINE/PIN SHROUD STG#2							35112134	NO
	2.000	2.000	Rs3,234.50	Rs6,469.00	4	0.000	N.Stk	0.000	10200002	24/04/2020
4	3603110219	CASE ARMST.TURBINE/PIN SHROUD STG#3							35112136	NO
	30.000	30.000	Rs4,055.67	Rs1,21,670.00	4	0.000	N.Stk	0.000	10200002	24/04/2020
5	3603000222	CASE & SHROUD ARMST.TURBINE,KEY SHROUD STG#2							213B1362P0	NO
									01/3511213	
									8	
	2.000	2.000	Rs1,447.50	Rs2,895.00	9	0.000	N.Stk	0.000	10200002	24/04/2020
6	3603000231	CASE & SHROUD ARMST.TURBINE,KEY SHROUD STG#2							213B1363P0	NO
									01/3511213	
									7	
	34.000	34.000	Rs13,793.56	Rs4,34,981.00	10	0.000	N.Stk	0.000	10200103	24/10/2020
7	3603110033	CASE ARMT.TURBINE/KEY FOR SHROUD STAGE#3							275A1659P0	NO
									02/3511213	
									9	
	28.000	28.000	Rs4,126.46	Rs1,15,541.00	8	0.000	N.Stk	0.000	10200003	24/04/2020

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8	3603110042 CASE ARRST.TURBINE/KEY FOR SHROUD STAGE#3									275A1660P0 RO 02/3511214 1
	2.000	2.000	Rs2,405.00	Rs4,810.00	8	0.000	N.Stk	0.000	10200002	24/04/2020
9	3603060004 BLADE KIT -TURBINE ROTOR STAGE -1,BLADE KIT -TURBINE ROTORS									G-3971/353 ST 06090
	1.000	1.000	Rs1.00	Rs1.00	15	0.000	N.Stk	0.000	10200030	26/06/2020
10	3603080002 BLADE KIT TURBINE ROTOR STAGE 9,NIL									314B7164G0 RO 11/314B716 40023
	1.000	1.000	Rs1.00	Rs1.00	8	0.000	N.Stk	0.000	10190188	13/03/2020
11	3609031275 GASKET SHEET,THICKNESS:2.0MM(KLINGER OILIT)									PS
	1.000	1.000	Rs6,586.40	Rs6,586.00	13	2.000	N.Stk	2.000	10200061	07/09/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MNTLS)	ISSUE CHECKED BY	STORES IC CHARGE	RECEIVED BY MATERIAL COLLECTOR

2435

m3810r2
DATE : 30/08/2024

NEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#5

ISSUE STORE:NNW
COST CENTRE: (9101)GT & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ WO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20190079	16.03.2020	20190653	16.03.2020				1	1D00

2019-20
81. no. (13)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/S.St	PSL BALANCE	GRN No	GRN DATE
1	3603110024	SHROUD SET TURBINE STAGE#3	329A323000 SO 02/3511205 0	
	1.000	1.000	Rs40,12,000.00	Rs40,12,000.00	5	1.000	N.Stk	0.000	10190069	17/08/2019
2	3603110015	NOZZLE ASSEMBLY TURBINE STAGE#3	1056919600 NO 3/1128644 2 SOC7	
	1.000	1.000	Rs4,58,15,252.00	Rs4,58,15,252.00	4	0.000	N.Stk	0.000	10190069	17/08/2019
3	3609020036	CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,LINER ERG-1	G-2331/142 NO D49100001	
	1.000	1.000	Rs2,35,517.00	Rs2,35,517.00	6	0.000	N.Stk	0.000	10190153	29/01/2020
4	3609010002	BEARING ASSY NO.2,LINER ERG-2	G-2446/352 NO 01030	
	1.000	1.000	Rs1,80,067.00	Rs1,80,067.00	4	0.000	N.Stk	0.000	10190189	12/03/2020
5	3609020045	CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,Deflectors	35101020 ST	
	1.000	1.000	Rs2,30,583.00	Rs2,30,583.00	5	0.000	N.Stk	0.000	10190120	20/11/2019
6	3611000021	BEARING SET OF AGB	ST	
	1.000	1.000	Rs14,55,264.00	Rs14,55,264.00	6	0.000	N.Stk	0.000	10190164	13/02/2020
7	3611000030	SET OF BEARING FOR MOP(1SET=4NOS)	ST	
	1.000	1.000	Rs16,26,126.00	Rs16,26,126.00	6	0.000	N.Stk	0.000	10190164	13/02/2020

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8	3611000038 BOWEX COUPLING FOR MMCP										NO
	1.000	1.000	Rs1,91,915.00	Rs1,91,915.00	8	0.000	N.Stk	0.000	10190164	13/02/2020	
9	3611000128 AUXILLIARY GEAR BOX/O RING 59(FLENDER DRG.POS.NO.667)									FLENDER	NO
										CODE:N3842	
										3	
	1.000	1.000	Rs14,962.00	Rs14,962.00	2	0.000	N.Stk	0.000	10190164	13/02/2020	
10	3611000119 AUXILLIARY GEAR BOX/O RING 9(FLENDER DRG.POS.NO.22)									FLENDER	NO
										CODE:N3842	
										3	
	1.000	1.000	Rs14,962.00	Rs14,962.00	2	0.000	N.Stk	0.000	10190164	13/02/2020	
11	3611000085 AUXILLIARY GEAR BOX/DEFLECTOR FOR AGB(FLENDER DRAW & POS. NO. 213 AND 220)									CODE:29751	NO
										050004	
	1.000	1.000	Rs2,30,125.50	Rs2,30,125.50	2	1.000	N.Stk	0.000	10190164	13/02/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m3010r2
DATE : 30/08/2024

HEEPCO Ltd.
AGSPP

PAGE : 1 of1

T C CODES | INDIGENOUS | IMPORTED | /------>
DEPARTMENT USE | 31 | 81
ISSUE ON LOAN | 32 | 82
ISSUE FOR SALE DISPOSAL | 33 | 83
LOI/AGREEMENT
COST RECOVERY BASIS-NORMAL | 34 | 84
COST RECOVERY BASIS-DOUBLE
ISSUE FREE OF COST TO
CONTRACTORS/FABRICATORS | 36 | 86
WRITE OFF FOR DAMAGES | 37 | 87
ADJUSTMENT DUE TO
WRONG CODE GIVEN IN GRN | 38 | 88
ADJUSTMENT BY AUDITORS
STOCK VERIFIERS | 40 | 90
\------>

MATERIAL ISSUE MODE

REMARKS FOR MI OF GT&S

ISSUE TICOD:MAN
COST CENTRE:(3101)GT & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQUISITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20190083	18.03.2020	20190661	18.03.2020				1	1000

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/U.St	PSL BALANCE	GRN No	GRN DATE
1	3604611096 GT EXHAUST FRAME & PLENUM ASSY.,SUPPORT DIFFUSER							35904350	NO
6.000	6.000	Rs33,081.50	Rs1,98,489.00	3	0.000	N.Stk	0.000	10140018	03/05/2014
2	3609033509 LOCKTITE 596 (200 ML TUBE)								NO
1.000	1.000	Rs501.50	Rs501.50	2	9.000	N.Stk	14.000	10190144	22/01/2020
3	3609020529 CLEANER, 260/330 ML.CAN,CHECKMATE								NO
25.000	25.000	Rs200.60	Rs5,014.92	68	99.000	N.Stk	50.000	10180136	20/11/2018
4	3609020510 DEVELOPER, 260/330 ML CAN,CHECKMATE								NO
15.000	15.000	Rs203.74	Rs3,056.13	47	16.000	N.Stk	44.000	10170087	25/08/2017
								10180136	20/11/2018
5	3611000094 AUXILLIARY GEAR BOX/SPACER FOR MOP(FLENDER DRG,POS.NO.385)							FLNDER CODE:9674A 045B3	NO
2.000	2.000	Rs36,779.00	Rs73,558.00	2	0.000	N.Stk	4.000	10190185	12/03/2020
6	3609031071 PLASTIC HAMMER CAP SIZE:40MM								NO
6.000	6.000	Rs95.15	Rs570.90	25	34.000	N.Stk	48.000	10170052	03/07/2017
7	3609033138 EMERY PAPER, GRADE:120								NO
3.000	3.000	Rs18.90	Rs56.70	8	7.000	N.Stk	80.000	10190162	11/02/2020
8	3609031451 SILICONE SEALANT 300ML TUBE(SILASTIC)								NO
4.000	4.000	Rs660.80	Rs2,643.20	30	16.000	N.Stk	44.000	10190162	11/02/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

2019-20
Sl. no (14)

2438

m3810r2 — MEEPCO Ltd. — PAGE : 1 of1

DATE : 30/06/2020

ACDPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: CB

ISSUE STORE:

COST CENTRE: [3013] CONTROL & INSTRUMENTATION

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.: C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.S. No.	M.I.S. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	C167	20200001	01.06.2020	20200066	01.06.2020				1	1000

2019-20
Sl. No. (15)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Loc	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3801010159	CONNECTOR THERMOCOUPLE												297A1399P0 10
				NO	20.000	20.000	Rs1,973.85	Rs39,477.00	4	48.000	N.Stk	0.000	5029	16/09/2006
													10130239	13/03/2014
													10150225	22/01/2016
2	3801060066	SPARE PLUG ASSEMBLY P/N 196D1986G004	P/N 196D1986G004	NO	2.000	2.000	Rs2,39,001.50	Rs4,78,003.00	7	0.000	N.Stk	0.000	10190140	02/01/2020
3	3801010061	Compressor Discharge Thermocouple-351A3188P003,Thermocouples - RTDs - Temperature Switches		NO	2.000	2.000	Rs17,193.50	Rs34,387.00	11	0.000	N.Stk	0.000	10160179	01/03/2017
4	3811250006	80AF 30A,COMPLETE ACTUATOR, GTG 8 1/4,ROTORK MAKE (MD- 2220-00-02)		NO	1.000	1.000	Rs.50	Rs.50	8	1.000	N.Stk	0.000	10190187	13/03/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

~ 439 ~

m9010r2 — NEEPCO Ltd. — PAGE : 1 of1
DATE : 30/09/2024 — AGBPP

T C CODES — INDIGENOUS IMPORTED /----->

DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

MATERIAL ISSUE NOTE

REMARKS: CB

ISSUE STORE:

COST CENTRE: [3013] CONTROL & INSTRUMENTATION

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.: C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	S/ A	PROJECT CODE
31	10	0257	20200340	31.03.2021	20200712	31.03.2021				1	1000

2019-20
St. No (15)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UX
		3811250006 90AF 30A,COMPLETE ACTUATOR, GIG # 1'4,ROTORK MAKE (WO- 2220-00-02)		NO

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lc	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1.000	1.000	Rs.00	Rs.00	S	0.000	N.Stk	0.000	10193197	13/03/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

440

m361Dr2 — NEEPCO Ltd. — PAGE : 1 of1
DATE : 16/08/2024 — AGBPP

MATERIAL ISSUE NOTE

I C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS	ISSUE STORE:NON	ISSUE AUTHORISED BY
FOR MI OF GT#6	COST CENTRE:[3101|GT & AUXILIARY	
	CONTRACTOR:	
	WORK DETAILS:	
	AGREEMENT NO. DATE:	
	INDENTING DEPT.:GT&AUX GIVN	

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	N.C. DATE	ACCOUNT HEAD	S/ A	PROJECT CODE
31	10	6261	20200086	05.12.2020	20200428	05.12.2020				1	1000

2020-21
Sl.No (1), (8)

SL	MATL.CODE	MATERIAL DESCRIPTION	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE	SUPP. PART	UN
1	3613000142	RATCHET MECHANISM/CAM,FREEWHEEL ASSY.	1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	X2273848	NO
2	3613000151	RATCHET MECHANISM/ROLLER	22.000	22.000	Rs5,903.55	Rs1,29,678.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	211935A	NO
3	3613000160	RATCHET MECHANISM/BEARING	2.000	2.000	Rs42,261.50	Rs84,523.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	M303A	NO
4	3613000179	RATCHET MECHANISM/RACE FREEWHEEL	1.000	1.000	Rs2,80,592.00	Rs2,80,592.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	216820	NO
5	3613000188	RATCHET MECHANISM/SPRING	2.000	2.000	Rs2,053.00	Rs4,106.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	201341 DG	NO
6	3613000197	RATCHET MECHANISM/CAGE,FREE	1.000	1.000	Rs1,75,019.00	Rs1,75,019.00	2	0.000	N.Stk	0.000	10200069	22/09/2020	219123	NO
7	3609031071	PLASTIC HAMMER CAP SIZE:40MM	10.000	10.000	Rs95.17	Rs951.67	28	0.000	N.Stk	48.000	10170052	03/07/2017		NO
8	3609032418	MARKIN CLOTH(MAGRAJ BRAND)	337.000	337.000	Rs26.21	Rs8,836.31	151	5873.750	N.Stk	3997.000	10180116 10200129	01/11/2018 01/12/2020		MR
9	3609020042	OIL STONE(150MMX50MMX25MM)	2.000	2.000	Rs222.50	Rs445.00	12	0.000	N.Stk	0.000	10170058	25/09/2017		NO
10	3613000019	BEARING SET FOR LCB	1.000	1.000	Rs.50	Rs.50	7	1.000	N.Stk	1.000	10200092	24/04/2020		ST

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

441

m981c:E
DATE : 16/08/2024

MEKPCO Ltd.
ACRPF

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
IOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#6

ISSUE STORE:MNW

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0261	20200384	02.12.2020	20200414	02.12.2020				1	1000

2020-21
81.MB (2)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE	
1	3609033033 HSS TAPER SHANK DRIL BIT SIZE:12.50MM(MIRANDA)									NO
5.000	5.000	Rs611.00	Rs3,055.00	2	5.000	N.Stk	5.000	10200125	12/11/2020	
2	3609032418 MARKIN CLOTH(NAGRAJ BRAND)									MR
230.000	230.000	Rs26.21	Rs6,029.34	150	6210.750	N.Stk	3997.000	10180116	01/11/2018	
3	3604000021 GT EXHAUST FRAME & PLENUM ASSY.,BOLT (HIGH TEMP) 12 POINT HEAD M-24XB0									MSGT978159 NO 8028
1.000	1.000	Rs1.00	Rs1.00	9	36.000	N.Stk	33.000	2679	12/05/2006	
4	3600020054 CASE ASSY.COMPRESSOR INLET & BEARING.NO.1,Seal Assy Stationary Oil Bearing									35101030/R NO Y0I9753042 112
1.000	1.000	Rs91,479.00	Rs91,479.00	7	1.000	N.Stk	1.000	10180163	11/02/2020	
5	3604010039 BEARING ASSY NO.2,Deflector Fwd									35201037/1 ST 6ACC2819P00 1
1.000	1.000	Rs82,549.00	Rs82,549.00	8	0.000	N.Stk	0.000	10200052	24/08/2020	
6	3609031071 PLASTIC HAMMER CAP SIZE:40MM									NO
8.000	8.000	Rs95.15	Rs761.23	27	18.000	N.Stk	48.000	10170052	03/07/2017	
7	3611000128 AUXILLIARY GEAR BOX/O RING 59(FLENDER DWG.PCS.NO.867)									FLENDER CODE:053842 3 NO

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	1.000	1.000	Rs15,000.00	Rs15,000.00	4	0.000	N.Stk	0.000	10200002	24/04/2020	
8	3611000119 AUXILLIARY GEAR BOX/O RING 9(FLENDER DRG.POS.NO.22)									FLENDER CODE:N3842 3	NO
	1.000	1.000	Rs15,000.00	Rs15,000.00	4	0.000	N.Stk	0.000	10200002	24/04/2020	
9	3611000030 SET OF BEARING FOR MOP(1SET=4NOS)										SET
	1.000	1.000	Rs1.00	Rs1.00	7	0.000	N.Stk	0.000	10200002	24/04/2020	
10	3609030698 STRAIGHT SHANK DRILL BIT GMM(JS)										NO
	4.000	4.000	Rs300.00	Rs1,200.00	6	6.000	N.Stk	6.000	10200124	12/11/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m3010r2
DATE : 16/10/2024

NESPCO Ltd.
AGBPP

PAGE : 1 of1

MATERIAL ISSUE NOTE

T C CODES — INDIGENOUS / IMPORTED

DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#6

ISSUE STORE:MAW

COST CENTRE: (3101) GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.: GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	S/A	PROJECT CODE
31	10	0261	20200090	07.12.2020	20200432	07.12.2020				1	1000

2020-21
81. No (3)

SL	MATL.CODE	MATERIAL DESCRIPTION							SUPP. PART	UM		
	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Blm Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE		
1	3609032418	MARKIN CLOTH(NAGRAJ BRAND)									NOS	
	146.000	146.000	Rs24.21	Rs3,537.33	152	5727.750	N.Stk	3997.000	10200129	01/12/2020 35112133	NO	
2	3603110185	CASE ASRGT.TURBINE/PIN SHROUD STAGE#2										
	28.000	28.000	Rs3,262.71	Rs91,356.00	9	0.000	N.Stk	0.000	10200002	24/04/2020 35112134	NO	
3	3603110194	CASE ARRGT. TURBINE/PIN SHROUD STG#1										
	2.000	2.000	Rs3,234.50	Rs6,469.00	4	0.000	N.Stk	0.000	10200002	24/04/2020 35112136	NO	
4	3603110219	CASE ARRGT.TURBINE/PIN SHROUD STG#3										
	30.000	30.000	Rs4,055.67	Rs1,21,670.00	4	0.000	N.Stk	0.000	10200002	24/04/2020 213B1362P0 01/3511213 8	NO	
5	3603000222	CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2										
	2.000	2.000	Rs3,447.00	Rs6,894.00	9	0.000	N.Stk	0.000	10200002	24/04/2020 213B1363P5 01/3511213 7	NO	
6	3603000231	CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2										
	34.000	34.000	Rs12,793.56	Rs4,34,981.00	10	0.000	N.Stk	0.000	10200103	24/10/2020 279A1659P0 02/3511213 9	NO	
7	3603110033	CASE ARRGT.TURBINE/KEY FOR SHROUD STAGE#3										
	28.000	28.000	Rs4,126.46	Rs1,15,541.00	8	0.000	N.Stk	0.000	10200002	24/04/2020		

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8	3603110042 CASE ASSGT.TURBINE/KEY FOR SHROUD STAGE#3										279a1660b5 NO 02/3511214 1
	2.000	2.000	Rs2,405.00	Rs4,810.00	8	0.000	N.Stk	0.000	10200002	24/04/2020	G-3971/353 ST 06090
9	3603040004 BLADE KIT -TURBINE ROTOR STAGE -1,BLADE KIT -TURBINE ROTORS										
	1.000	1.000	Rs1.00	Rs1.00	10	0.000	N.Stk	0.000	10200030	26/06/2020	3148716400 NO 11/3148716 40023
10	3603060002 BLADE KIT TURBINE ROTOR STAGE 3,NIL										
	1.000	1.000	Rs1.00	Rs1.00	6	0.000	N.Stk	0.000	10190186	13/03/2020	P8
11	3609031275 GASKET SHEET,THICKNESS:2.0MM(KLINGER OILIT)										
	1.000	1.000	Rs6,586.00	Rs6,586.00	13	2.000	N.Stk	2.000	10200061	07/09/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(SKILL)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m3819r2
DATE : 16/08/2024

HEEPCO Ltd.
AGDPP

MATERIAL ISSUE NOTE

I C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS	ISSUE STORE:MAN	ISSUE AUTHORISED BY
FOR MI OF GT#6	COST CENTRE:(3101)GT & AUXILIARY	
	CONTRACTOR:	
	WORK DETAILS:	
	AGREEMENT NO. DATE:	
	INDENTING DEPT.:GT&AUX DEVN	

TO	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	M/A	PROJECT CODE
31	10	0261	20200100	20.01.2021	20200522	22.01.2021				1	1000

2020-21
Sl.No 9 5
17

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	TM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3609000141 GASKET,Gasket MSM size 1" class 150								20
3.000	3.000	Rs1,681.43	Rs5,044.29	5	4.000	N.Stk	4.000	10200106	03/11/2020
2	3602030013 CAP & LINER ARRGT.-COMBUSTION,LINEAR ASSY COMB(PGMA-35111)(G-29)							35111017/8 NO 99E0116001 3	
2.000	2.000	Rs.50	Rs1.00	7	0.000	N.Stk	0.000	10200036	07/07/2020
3	3602030022 CAP & LINER ARRGT.-COMBUSTION,LINEAR ASSY COMB(G-36)							35111033/8 NO 99E0116001 4	
3.000	3.000	Rs10,56,336.00	Rs31,69,008.00	3	0.000	N.Stk	0.000	10200036	07/07/2020
4	3602030004 CAP & LINER ARRGT.-COMBUSTION,COMB LINEAR ASSY(G-24)							35111001/8 NO 99E0116001 2	
4.000	4.000	Rs.25	Rs1.00	7	0.000	N.Stk	0.000	10200036	07/07/2020
5	3604000119 ST EXHAUST FRAME & PLENUM ASSY.,GASKET CERAMIC FIBRE (GT97S1100011)							HYGI975159 MR 2186/35904 336	
20.000	20.000	Rs1,598.90	Rs31,978.00	8	20.000	N.Stk	20.000	10200106	03/11/2020
6	3605010269 COOLING & SEALING,GASKET MSM SIZE 150(WITH INNER RING)							35567189 NO	
1.000	1.000	Rs1,602.38	Rs1,602.38	6	12.000	N.Stk	12.000	10100037	05/06/2010

7	3604010739 FRAME ASSY.EXHAUST/CAP SCREW SOCKET HEAD M10X20										35904337 MO
	1.000	1.000	Rs1,028.36	Rs1,028.36	3	28.000	N.Stk	28.000	10120230	02/03/2013	
8	3602010149 COMBUSTION CHAMBER ARRGT.GASKET(FUEL NOZZLE)										HY35100043 MO ,6001/3510 8043
	10.000	10.000	Rs1,307.40	Rs13,074.00	18	0.000	N.Stk	0.000	10200106	03/11/2020	
9	3605010111 HOSE FLEXIBLE METAL										336A9206P0 MO 61
	5.000	5.000	Rs43,898.60	Rs2,19,493.00	2	0.000	N.Stk	0.000	10120230	02/03/2013	
10	3609031123 SS SHIM SHEET(304 GRADE),THICKNESS=0.5MM										SH
	2.000	2.000	Rs1,969.00	Rs3,938.00	4	0.000	N.Stk	0.000	10130106	02/09/2013	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m381022
DATE : 16/06/2024

NEEPCO Ltd.
AGBPP

PAGE : 1 of 1

T C CODES | INDIGENOUS | IMPORTED | /-----> | MATERIAL ISSUE NOTE

DEPARTMENT USE	31	81	
ISSUE ON LOAN	32	82	
ISSUE FOR SALE DISPOSAL	33	83	
LOI/AGREEMENT			
COST RECOVERY BASIS-NORMAL	34	84	
COST RECOVERY BASIS-DOUBLE			
ISSUE FREE OF COST TO			
CONTRACTORS/FABRICATORS	36	86	
WRITE OFF FOR DAMAGES	37	87	
ADJUSTMENT DUE TO			
WRONG CODE GIVEN IN GRN	38	88	
ADJUSTMENT BY AUDITORS			
STOCK VERIFIERS	40	90	

\<-----/

REMARKS	ISSUE STORE:MMS
FOR MI OF	
GT&S	COST CENTRE:(3101)GT & AUXILIARY
	CONTRACTOR:
	WORK DETAILS:
	AGREEMENT NO. DATE:
	INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

2020-21
Sl. No 6

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	M/A	PROJECT CODE
31	10	0261	20200083	02.12.2020	20200415	02.12.2020				1	1000

SL	MAIL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UN
	REQD QTY	ISSUED QTY / ITEM RATE / TOTAL VALUE / Bin Ln / CARD BALANCE / St/N.St / PSL BALANCE / GRN No / GRN DATE		
1	3401050018	GUIDE VANE VARIABLE/SPRING		
	32.000	32.000 Rs486.50 Rs15,568.00 7 0.000 N.Stk 0.000	35106045	NO
			10200002 24/04/2020	
2	3401050036	GUIDE VANE VARIABLE/BUSHING	35106047	NO
	64.000	64.000 Rs179.36 Rs11,479.00 8 0.000 N.Stk 0.000	10200002 24/04/2020	
3	3401050027	GUIDE VANE VARIABLE/BUSHING CHEMELLOY	35106052	NO
	64.000	64.000 Rs1,403.48 Rs89,823.00 8 0.000 N.Stk 0.000	10200002 24/04/2020	
4	3401050249	GUIDE VANE VARIABLE/TUBING	35106048/2	NO
			15A4668PJO 9	
	64.000	64.000 Rs723.05 Rs46,275.20 6 0.000 N.Stk 0.000	10200002 24/04/2020	
5	3401050354	GUIDE VANE VARIABLE/WASHER THRUST	35106088	NO
	64.000	64.000 Rs124.44 Rs7,964.00 9 0.000 N.Stk 0.000	10200002 24/04/2020	
6	3609032339	WELDING ROD 6013 ,SIZE:2.5MMX350 (ESAB28)		PE
	1.000	1.000 Rs1,457.33 Rs1,457.33 5 2.000 N.Stk 1.000	10170087 25/08/2017	
7	3609020042	OIL STONE(150MMX50MMX25MM)		NO
	2.000	2.000 Rs222.50 Rs445.00 11 2.000 N.Stk 0.000	10170098 23/09/2017	
8	3603110024	SHROUD SET TURBINE STAGE#3	329A323020	NO
			C2/3511205 0	
	1.000	1.000 Rs1.00 Rs1.00 6 0.000 N.Stk 0.000	10190186 13/03/2020	

9	3603000143 CASE & SHROUD ASSBY.TURBINE,Kit of 36 Shrouds Stage 1									329A3228G0 ST 4/35112030	
	1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	0.000	10200035	06/07/2020	
10	3609032755 HSS TAPER SHANK DRILL BIT SIZE 10 MM										PS
	5.000	5.000	Rs471.27	Rs2,356.36	6	6.000	N.Stk	6.000	10190169	22/02/2020	
									10200125	12/11/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

NEEPCO Ltd.
AGBPP

PAGE : 1 of 1

DATE : 14/08/2020

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS
ISSUE STORE:MAW
COST CENTRE:(1020)GAS BOOSTER STATION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQUISITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	C271	20200324	31.08.2020	20200237	31.08.2020				1	1000

2020-21
81. MD (F)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	FSL BALANCE	GRN No	GRN DATE
1	37170003309	COMPRESSOR WHEEL						29C00	NO
1.000	1.000	Rs22,35,127.00	Rs22,35,127.00	2	0.000	N.Stk	0.000	10200045	27/07/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MAIN)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

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m3010r2 NEEPCO Ltd.
DATE : 30/08/2024 AGBPP PAGE : 1 of1

T C CODES INDIGENOUS IMPORTED /----->

DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

MATERIAL ISSUE NOTE

REMARKS

ISSUE STORE:MAW

COST CENTRE:(1020)GAS BOOSTER STATION

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0271	20200026	22.09.2020	20000266	22.09.2020				1	1000

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	CM
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/S.St	PSL BALANCE	GRN No	GRN DATE	
1	3719001706	SCREW HEX HEAD,M12X35MM							296422	NO
0.000	0.000	Rs5,745.62	Rs45,965.00	2	0.000	N.Stk	20.000	10200066	14/09/2020	
2	3719001672	GASKET,SPIRAL							296093J	NO
2.000	2.000	Rs4,163.00	Rs8,326.00	2	2.000	N.Stk	24.000	10200066	14/09/2020	
3	3719000129	GASKET,SPRIAL							296093L	NO
2.000	2.000	Rs3,531.94	Rs7,063.88	5	14.000	N.Stk	6.000	10160073	04/08/2016	
4	3719001344	HOUSING ASSY WASTEGATE,3 IN 1.8							A296078K	NO
1.000	1.000	Rs9,43,441.00	Rs9,43,441.00	4	0.000	N.Stk	2.000	10200066	14/09/2020	
5	3719001335	HOUSING ASSY WASTEGATE,3 IN R.B							A296078K	NO
1.000	1.000	Rs9,43,441.00	Rs9,43,441.00	4	0.000	N.Stk	2.000	10200066	14/09/2020	

SIGNATURE

ISSUED BY STORE KEEPER
ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

~451~

~~SI.No~~. 2020-21
SI.No. (9), (10)

m3810r2
DATE : 30/08/2024

NEEPCO Ltd.
AGBPP

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MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS | ISSUE STORE:MAW
COST CENTRE:|3010|STATION FACILITY DIVISION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:ST DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ PO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0264	20200059	14.12.2020	20200441	14.12.2020				1	1000

2020-21
St. No. (11)

SL	MATL.CODE	MATERIAL DESCRIPTION								SUPP. PART	UN
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN NO	GRN DATE		
1	3521000625	DIVERTER DAMPER,AIR BARRIER FAN & MOTOR ASSY									NO
1.000	1.000	Rs7,37,885.00	Rs7,37,885.00	6	0.000	N.Stk	0.000	10200111	05/11/2020		

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MAT'LS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

m3810r2
DATE : 16/08/2024

NEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

? C CODES | INDIGENOUS | IMPORTED
DEPARTMENT USE | 31 | 81
ISSUE ON LOAN | 32 | 82
ISSUE FOR SALE DISPOSAL | 33 | 83
LOI/AGREEMENT
COST RECOVERY BASIS-NORMAL | 34 | 84
COST RECOVERY BASIS-DOUBLE
ISSUE FREE OF COST TO
CONTRACTORS/FABRICATORS | 36 | 86
WRITE OFF FOR DAMAGES | 37 | 87
ADJUSTMENT DUE TO
WRONG CODE GIVEN IN GRN | 38 | 88
ADJUSTMENT BY AUDITORS
STOCK VERIFIERS | 40 | 90

REMARKS: CB

ISSUE STORE:

COST CENTRE:(3013)CONTROL & INSTRUMENTATION

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.:C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.R. No.	M.I.N. DATE	CONTRACT NO/ PO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0267	20200029	30.01.2021	20200591	30.01.2021				1	1000

2020-21
81. no (12)

SL	MATL.CODE	MATERIAL DESCRIPTION	REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE	SUPP. PART	UM
1	3811120172	Limit Switch 2 NO+2NC,X1000 G3A (ROTORK)	4.000	4.000	Rs4,244.75	Rs16,979.00	8	0.000	N.Stk	0.000	10190157	15/10/2015	NO	
2	3801060067	Flame Detector (SSD),Miscellaneous.	1.000	1.000	Rs.50	Rs.50	7	1.000	N.Stk	1.000	10200107	03/11/2020	NO	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

m9810r2 — NEEPCO Ltd. — PAGE : 1 of1
DATE : 16/08/2024 — AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS | ISSUE STORE:MAW | ISSUE AUTHORISED BY
COST CENTRE:(1020)GAS BOOSTER STATION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GBS

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/ A	PROJECT CODE
31	10	0271	20200032	30.09.2020	20200292	09.10.2020			1	1	1000

Sl	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Min Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3719009804 ACTUATOR,MEINEKANN							296515	NO
1.000	1.000	Rs22,61,825.00	Rs22,61,825.00	4	0.000	N.Stk	1.000	10200087	08/10/2020
2	3719001821 AIR STARTAR MOTOR TDI							293435L	NO
1.000	1.000	Rs6,89,845.00	Rs6,89,845.00	2	0.000	N.Stk	0.000	10200090	09/10/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

2020-21
Sl. No. 13, 14

m3610r2 — NEEPCO Ltd. — RGMTP — PAGE : 1 of1

DATE : 16/08/2024

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS | ISSUE STORE:MSN,AGBP | ISSUE AUTHORISED BY

FOR REPLACEMENT OF BULK ACID STORAGE TANK(HCL). | COST CENTRE:(3103)ST & AUXILIARY | CONTRACTOR: | WORK DETAILS: | AGREEMENT NO. DATE: | INDENTING DEPT.:STORES DIVN

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQSITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	R/A	PROJECT CODE
31	10	0262	20200069	20.10.2020	20200319	21.10.2020				1	100C

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM	RECD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lh	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	4210020021	BULK ACID STORAGE TANK,MOC:MSRL, SIZE: 2600 DIAX3060 LOS,CAP:15 CUB.MTR.WITH LEV.GAUGE&FUME ABSORBER		ST	1.000	1.000	Rs2,68,169.33	Rs2,68,169.34	?	0.000	N.Stk	0.000	10200098	16/10/2020
2	4256000601	WIRE BRUSH		NO	4.000	4.000	Rs35.36	Rs141.45	33	10.000	N.Stk	10.000	10190168	22/02/2020
3	4256000920	EMERY CLOTH 80 GRADE		SALINER ABRASIVE	25.000	25.000	Rs19.48	Rs487.00	35	25.000	N.Stk	25.000	10190176	03/03/2020
4	4256000939	EMERY CLOTH 100 GRADE		SALINER ABRASIVE	25.000	25.000	Rs19.48	Rs487.00	19	50.000	N.Stk	25.000	10190176	03/03/2020
5	4256003549	GI BOLT (FULL THREAD) & NUT,M12X65		NO	30.000	30.000	Rs23.48	Rs704.40	?	170.000	N.Stk	0.000	10190125	02/12/2019

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

2020-21
Sl.no (15)

m3810r2 NEEPCO Ltd.
DATE : 16/08/2024 AGBPP PAGE : 1 of1

T C CODES INDIGENOUS IMPORTED /-----> MATERIAL ISSUE NOTE

DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS | ISSUE STORE:MAM | ISSUE AUTHORISED BY
COST CENTRE:(1020)GAS BOOSTER STATION
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GBS

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0271	20200080	19.03.2021	20200693	22.03.2021				1	1000

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	CH
	REQD QTY	ISSUED QTY / ITEM RATE / TOTAL VALUE / Bin Ln / CARD BALANCE / St/N.St / PSL BALANCE / GRN No / GRN DATE		
1	3719001335	HOUSING ASSY NASTEGATE,3 IN N.B	A296078K	NO
	1.000	1.000 Rs10,17,330.33 Rs10,17,330.33 7 2.000 N.Stk 2.000 10200194 23/02/2021	296422	NO
2	3719001706	SCREW HEX HEAD,M12X35MM		
	4.000	4.000 Rs6,027.83 Rs24,111.33 4 20.000 N.Stk 20.000 10200209 25/02/2021	296260	NO
3	3719001654	CONNECTOR TURBINE INLET,LOWER,N.B		
	1.000	1.000 Rs1,34,166.00 Rs1,34,166.00 2 0.000 N.Stk 0.000 10200065 14/09/2020	296093J	NO
4	3719001672	GASKET,SPIRAL		
	1.000	1.000 Rs4,542.96 Rs4,542.96 5 24.000 N.Stk 24.000 10200066 14/09/2020	296093L	NO
5	3719000129	GASKET,SPRIAL		
	2.000	2.000 Rs3,531.90 Rs7,063.80 8 8.000 N.Stk 6.000 10160153 05/01/2017	295869	NO
6	3719001681	SCREW HEX HEAD,M12		
	2.000	2.000 Rs427.00 Rs854.00 3 6.000 N.Stk 6.000 10200066 14/09/2020	296425	NO
7	3719001690	NUT,HEX,M12		
	2.000	2.000 Rs2,294.00 Rs4,588.00 3 8.000 N.Stk 6.000 10200066 14/09/2020		

SIGNATURE

ISSUED BY STORE KEEPER ASST.(NAILS) | ISSUE CHECKED BY | STORES IN CHARGE | RECEIVED BY MATERIAL COLLECTOR

2020-21
Sl.no (16)

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m3010r2
DATE : 27/09/2024

NEEPCO Ltd.
AGBPP

PAGE : 1 of1

MATERIAL ISSUE NOTE

T C CODES | INDIGENOUS | IMPORTED
DEPARTMENT USE | 31 | 91
ISSUE ON LOAN | 32 | 92
ISSUE FOR SALE DISPOSAL | 33 | 93
LOI/AGREEMENT
COST RECOVERY BASIS-NORMAL | 34 | 94
COST RECOVERY BASIS-DOUBLE
ISSUE FREE OF COST TO
CONTRACTORS/FABRICATORS | 36 | 86
WRITE OFF FOR DAMAGES | 37 | 87
ADJUSTMENT DUE TO
WRONG CODE GIVEN IN GRN | 38 | 88
ADJUSTMENT BY AUDITORS
STOCK VERIFIERS | 40 | 90

REMARKS

ISSUE STORE:MMW

COST CENTRE:(1020)GAS BOOSTER STATION

CONTRACTOR:

WORK DETAILS:
AGREEMENT NO. DATE:

INDENTING DEPT.:GBS

ISSUE AUTHORISED BY

TO	From Loc	INDENTOR CODE	REQUISITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	S/ A	PROJECT CODE
31	10	9271	20190081	18.02.2020	20190599	20.02.2020				1	1000

SL	MATL.CODE	MATERIAL DESCRIPTION	SUBS. PART	UN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/P.St	PSL BALANCE	GRN No	GRN DATE	
1	3719000581 COIL,IGNITION W/LEAD							69957		NO
1.000	1.000	Rs48,009.00	Rs48,009.00	8	3.000	N.Stk	10.000	10190082	26/07/2018	
2	3719000059 EXTENSION,ASM,SPARK PLUG(275G1+)							AD96064K		NO
1.000	1.000	Rs7,289.96	Rs7,289.96	5	23.000	N.Stk	23.000	10190027	24/05/2019	
3	3700020617 PISTON4REC							MLJEMA1621		NO
1.000	1.000	Rs1.00	Rs1.00	7	0.000	N.Stk	1.000	01		
10190036	07/06/2019									
4	3700020671 GASKET							W139621A		NO
4.000	4.000	Rs1,419.86	Rs5,679.43	7	3.000	N.Stk	1.000	10190164	10/01/2019	
5	3719000004 WAUKESHA MAKE SPARK PLUG							69919D		NO
12.000	12.000	Rs21,003.86	Rs2,52,046.90	26	36.000	N.Stk	24.000	10190073	04/09/2019	
6	3701000816 GAS ENGINE,Kit-Admission Valve Repair							211665D		NO
12.000	12.000	Rs39,487.40	Rs4,73,848.81	64	13.000	N.Stk	24.000	10190073	04/09/2019	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

2020-21
Sl. no. (18)

~ 457 ~

m9810x2 NEEPCO Ltd.
DATE : 30/08/2024 AGBPP PAGE : 1 of1

T C CODES INDIGENOUS IMPORTED /------>

DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

MATERIAL ISSUE NOTE

REMARKS :FOR MI OF ST#5

ISSUE STORE:MMH

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQSITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	S/ A	PROJECT CODE
31	10	0261	2G2000004	28.04.2020	20000035	28.04.2020				1	1060

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UN
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	S&L BALANCE	GRN No	GRN DATE
1	3602010051	COMBUSTION CHAMBER ARRGT.,BOLT 12 POINT HEAD M 20X75	HZ9T975117	NO
			8010/35108	
			002	
21.000	21.000	Rs.00	Rs.00	14	77.000	N.Stk	47.000	10120230	02/03/2013
								10130218	11/03/2014
								10160126	02/11/2016
2	3600130197	BEARING,THRUST/BEARING THRUST TILTING PAD	35204015	NO
1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	1.000	10190120	28/11/2019
3	3600130114	BERRING,THRUST/BEARING THRUST	35204010/1	NO
			66C2617G00	
			2	
1.000	1.000	Rs3,51,157.00	Rs3,51,157.00	3	1.000	Stock	0.000	10120230	02/03/2013
4	3602020069	TRANSITION PIECE ARRGT.-COMBUSTION,SEAL APT SIDE	HY35115001	NO
			6001/35115	
			001	
10.000	10.000	Rs22,403.32	Rs2,24,033.16	12	9.000	N.Stk	9.000	10140040	09/06/2014
								10140161	08/12/2014
5	3602020175	TRANSITION PIECE ARRGT.-COMBUSTION,T2 Seal Stop MS6001	219B6788P0	NO
			01/2511500	
			9	
10.000	10.000	Rs12,401.10	Rs1,24,011.00	12	10.000	N.Stk	10.000	10140160	08/12/2014
6	3602020087	TRANSITION PIECE ARRGT.-COMBUSTION,BOLT BODY BOUND	HY35115010	NO
			6001	

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2019-20
Sl.no (8)

	20.000	20.000	Rs1,748.03	Rs34,960.69	6	9.000	N.Stk	9.000	2795	15/05/2006
									10140161	08/12/2014
7	36020201l1 TRANSITION PIECE ARRGT.-COMBUSTION,LOCK PLATE BOLT HORN									BY35115013 NO 6001/35115 013
	2.000	2.000	Rs4,383.24	Rs8,766.48	11	19.000	N.Stk	17.000	10090248	03/02/2010
									10130218	11/03/2014
8	36020201l9 TRANSITION PIECE ARRGT.-COMBUSTION,LOCK PLATE BOLT HORN									BY35115014 NO 6001
	2.000	2.000	Rs5,743.00	Rs11,486.00	10	19.000	N.Stk	17.000	10090248	03/02/2010
									10120230	02/03/2013
9	36020202l6 TRANSITION PIECE ARRGT.-COMBUSTION,TP Bolt/BOLT SHOULDER									216867539P0 NO 02/3511501 6
	10.000	10.000	Rs3,977.50	Rs39,775.00	6	10.000	N.Stk	0.000	10120232	07/03/2013
10	36020201l9 TRANSITION PIECE ARRGT.-COMBUSTION,LOCK PLATE(SIDE SEAL RETAINER)									BY35115015 NO 6001
	10.000	10.000	Rs6,443.17	Rs64,431.67	12	14.000	N.Stk	4.000	10120232	07/03/2013
									10140160	08/12/2014
11	36020202l5 TRANSITION PIECE ARRGT.-COMBUSTION,TP Pos Pin									35115017/2 NO 19B6731P00 2
	10.000	10.000	Rs8,342.00	Rs83,420.00	6	20.000	N.Stk	10.000	10090248	03/02/2010
12	36031103l9 CASE ARRGT.TURBINE/PLUG PIPE(SHROUD STG#1&2)								35112122	NO
	10.000	10.000	Rs1,631.94	Rs16,319.35	2	52.000	N.Stk	52.000	10190122	29/11/2019
13	36090202l9 SS WELDING ROD 309(36N)2.5MM(ESAB)									PK
	1.000	1.000	Rs1,190.50	Rs1,190.50	30	1.000	N.Stk	0.000	10190169	22/02/2020
14	36090324l8 MARKIN CLOTH(NAGRAJ BRAND)									NR
	268.000	268.000	Rs42.38	Rs11,358.64	134	1344.750	N.Stk	3997.000	10180116	01/11/2018
15	36031101l1 CASE ARRGT. TURBINE/PLUG CLEARANCE HOLE									35112062/2 NO 13B1358P00 1
	1.000	1.000	Rs9,510.75	Rs9,510.75	6	7.000	N.Stk	1.000	10190136	28/12/2019

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m3910r2 — HEPCO Ltd. — AGBPP — PAGE : 1 of1

DATE : 30/08/2020

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: FOR MI OF GT#6

ISSUE STORE:MAW

COST CENTRE:(3101)GT & AUXILIARY

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	15	0261	20200091	21.12.2020	20200456	21.12.2020			1		1000

2019-20

Bl no. 9, 10, 11

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Ln	CARD BALANCE	St/W.St	PSL BALANCE	GRN No	GRN DATE
1	3609032418 MARKIN CLOTH(NAGRAJ BRAND)								NR
858.750	858.750	Rs26.21	Rs22,511.84	153	4869.000	N.Stk	3997.000	10200129	01/12/2020
2	3603020007 NOZZLE ARROT TURBINE STAGE 2,2nd stage Nozz. Assy FR6B							117E800200 ST 01/1196249 AGCCB	
1.000	1.000	Rs1.00	Rs1.00	4	0.000	N.Stk	0.000	10190186	13/03/2020
3	3603040006 NOZZLE ASSGY TURBINE STAGE 3,MIL							35127000	RO
1.000	1.000	Rs1.00	Rs1.00	2	0.000	N.Stk	0.000	10190186	13/03/2020
4	3609000275 GASKET SHEET 3MM THICK,KLINGER (K OILIT,PER PS 18 KG APPROX)								PS
1.000	1.000	Rs9,027.50	Rs9,027.50	11	1.000	N.Stk	1.000	10160081	11/08/2019
5	3609020309 MOLYKOTE, 1000, GN PLUS.								KG
1.000	1.000	Rs2,055.83	Rs2,055.83	25	5.000	N.Stk	7.000	10130139	04/10/2013
6	3609031035 EMERY TAPE(FINE GRADE)SIZE:50MM(W)X50MTRS(L)								RO
2.500	2.500	Rs766.80	Rs1,917.00	5	0.000	N.Stk	0.000	10190189	20/03/2020
7	3605000015 FITTING ASSGY. COOLING & SEALING,GASKET MAW 4IN # 150							HYBYT240036 RO 1101/35507 236	
2.000	2.000	Rs1,413.75	Rs2,827.50	13	14.000	N.Stk	0.000	10160124	02/11/2016
8	3609031104 GRINDING WHEEL,SIZE:6"X1.6MMX100MM(MAKITA)								PS
10.000	10.000	Rs53.64	Rs536.36	22	22.000	N.Stk	8.000	10190189	20/03/2020

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9	3603029008 NOZZLE ASSGY TURBINE STAGE 1,NOZZLE ASSGNT STAGE 1 (PGNA-35116)									G-2165/351 NO 18000
	1.000	1.000	Rs1.00	Rs1.00	4	0.000	N.Stk	0.000	10190186	13/03/2020
10	3602029175 TRANSITION PIECE ASSGT.-COMBUSTION,TP Seal Stop NS6001									219837899P0 NO 01/3511900 9
	10.000	10.000	Rs10,724.65	Rs1,07,246.50	14	10.000	N.Stk	10.000	10190122	29/11/2019

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m301022
DATE : 30/08/2024

BEEPCO Ltd.
AGBPP

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS FOR MI OF: GT#6

ISSUE STORE:MAW
COST CENTRE:(3101)GT & AUXILIARY
CONTRACTOR:
WORK DETAILS:
AGREEMENT NO. DATE:
INDENTING DEPT.:GT&AUX DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	S/ A	PROJECT CODE
31	10	C261	20200090	07.12.2020	20201432	07.12.2020			1		1000

2019-20.
Sl. no (12)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UN

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1 3609032410 MARKIN CLOTH(MAGRAJ BRAND)									NR
146.000	146.000	Rs26.21	Rs3,827.33	152	5727.759	N.Stk	3997.000	10200129 35110133	01/12/2020 NO
2 3603110185 CASE ARRGT.TURBINE/PIN SHROUD STAGE#2									
28.000	28.000	Rs3,262.71	Rs91,356.00	9	0.000	N.Stk	0.000	10200002 35112134	24/04/2020 NO
3 3603110194 CASE ARRGT. TURBINE/PIN SHROUD STG#2									
2.000	2.000	Rs3,234.50	Rs6,469.00	4	0.000	N.Stk	0.000	10200002 35112136	24/04/2020 NO
4 3603110219 CASE ARRGT.TURBINE/PIN SHROUD STG#3									
30.000	30.000	Rs4,055.67	Rs1,21,670.00	4	0.000	N.Stk	0.000	10200002 2138136280 01/3511213 8	24/04/2020 NO
5 3603000222 CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2									
2.000	2.000	Rs3,447.50	Rs6,894.00	9	0.000	N.Stk	0.000	10200002 213B136280 01/3511213 7	24/04/2020 NO
6 3603000231 CASE & SHROUD ARRGT.TURBINE,KEY SHROUD STG#2									
34.000	34.000	Rs12,753.56	Rs4,34,961.00	10	0.000	N.Stk	0.000	10200103 279A165990 02/3511213 9	24/10/2020 NO
7 3603110333 CASE ARGT.TURBINE/KEY FOR SHROUD STAGE#3									
28.000	28.000	Rs4,126.46	Rs1,15,561.00	8	0.000	N.Stk	0.000	10200002	24/04/2020

8	3603110042 CASK ASSOT.TURBINE/SEV FOR SEROUD STAGE#3										279A1660P8 NO 02/3511214 1
	2.000	2.000	Rs2,405.50	Rs4,810.00	8	0.000	N.Stk	0.000	10200002	24/04/2020	G-3971/353 37 06090
9	3603060004 BLADE KIT -TURBINE ROTOR STAGE -1,BLADE KIT -TURBINE ROTORS										
	1.000	1.000	Rs1.00	Rs1.00	10	0.000	N.Stk	0.000	10200030	26/06/2020	314B716400 90 11/314B716 40023
10	3603080002 BLADE KIT TURBINE ROTOR STAGE 3.NIG										
	1.000	1.000	Rs1.00	Rs1.00	6	0.000	N.Stk	0.000	10196186	13/03/2020	PS
11	3609031275 GASKET SHEET,THICKNESS:2.0MM(KLINGER OILIT)										
	1.000	1.000	Rs6,586.00	Rs6,586.00	13	2.000	N.Stk	2.000	10200061	07/09/2020	

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)	ISSUE CHECKED BY	STORES IN CHARGE	RECEIVED BY MATERIAL COLLECTOR

m3810r2 — MEEPCO Ltd. — AGBPP — PAGE : 1 of1

DATE : 30/08/2024

F C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL	33	83
LOI/AGREEMENT		
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	96	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

MATERIAL ISSUE NOTE

REMARKS: CB

ISSUE STORE:

COST CENTRE: (3013) CONTROL & INSTRUMENTATION

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPTT.: C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT WO/ NO.	W.O. DATE	ACCOUNT HEAD	N/ A	PROJECT CODE
31	10	4267	20300001	01.06.2020	80300086	01.06.2020				I	1000

2019-20
Sl. No. (15)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
1	3801010159	CONDUCTOR THERMOCOUPLE	207A1399P0 10	NO

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Blo Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
20.000	20.000	Rs1,973.85	Rs39,477.06	4	40.000	N.Stk	0.000	5029	16/09/2006
								10130230	13/03/2014
								10160229	22/01/2016

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
2	3801060066	SPARK PLUG ASSEMBLY P/N 196D1986G004	P/N 196D1986G 04	NO

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Blo Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
2.000	2.000	Rs2,39,601.50	Rs4,78,003.00	7	0.000	N.Stk	0.000	10190140	02/01/2020

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
3	3801010061	Compressor Discharge Thermocouple-351A3188P003,Thermocouples - RTDs - Temperature Switches		NO

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Blo Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
2.000	2.000	Rs17,193.50	Rs34,387.00	11	0.000	N.Stk	0.000	10160179	01/03/2017

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
4	3811250006	SOAF 30A,COMPLETE ACTUATOR, GTG # 1 & 2,ROTORK MAKE (WD- 2220-00-02)		NO

REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Blo Ln	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1.000	1.000	Rs.50	Rs.50	8	1.000	N.Stk	0.000	10190187	13/03/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST. (MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

MEPCO Ltd.
AGMPP

PAGE : 1 of1

R3810r2
DATE : 30/08/2024

MATERIAL ISSUE NOTE

T C CODES	INDIGENOUS	IMPORTED
DEPARTMENT USE	31	81
ISSUE ON LOAN	32	82
ISSUE FOR SALE DISPOSAL LOI/AGREEMENT	33	83
COST RECOVERY BASIS-NORMAL	34	84
COST RECOVERY BASIS-DOUBLE		
ISSUE FREE OF COST TO		
CONTRACTORS/FABRICATORS	36	86
WRITE OFF FOR DAMAGES	37	87
ADJUSTMENT DUE TO		
WRONG CODE GIVEN IN GRN	38	88
ADJUSTMENT BY AUDITORS		
STOCK VERIFIERS	40	90

REMARKS: CB

ISSUE STORE:

COST CENTRE: [3013]CONTROL & INSTRUMENTATION

CONTRACTOR:

WORK DETAILS:

AGREEMENT NO. DATE:

INDENTING DEPT.:C&I DIVN

ISSUE AUTHORISED BY

TC	From Loc	INDENTOR CODE	REQSITION NOTE	REQUISITION DATE	M.I.N. No.	M.I.N. DATE	CONTRACT NO/ NO.	W.O. DATE	ACCOUNT HEAD	N/A	PROJECT CODE
31	10	0267	20200040	31.03.2021	20200712	31.03.2021				1	1000

2019-20
St. no (15)

SL	MATL.CODE	MATERIAL DESCRIPTION	SUPP. PART	UM
REQD QTY	ISSUED QTY	ITEM RATE	TOTAL VALUE	Bin Lo	CARD BALANCE	St/N.St	PSL BALANCE	GRN No	GRN DATE
1	3811250306	90AF 30A,COMPLETE ACTUATOR, GIG # 1 4,ROTORK MAKE [ND- 2220-00-02]							ND
1.000	1.000	Rs.00	Rs.00	9	0.000	N.Stk	0.000	10190187	13/03/2020

SIGNATURE

ISSUED BY STORE KEEPER ASST.(MATLS)

ISSUE CHECKED BY

STORES IN CHARGE

RECEIVED BY MATERIAL COLLECTOR

21-22-(Sl.no. 1)

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 117 **Reservation Date:** 24.05.2021 **Material Issue No.** 4900000091 **Material Issue Date:** 13.06.2021

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokulani Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Ste. Loc : 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Ste. Loc : AE01 -CS SH1- BM1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3000080003	ACTUATOR,HBW2MAN/GAS ENGINE-WAUKESHA1	NO	1.000	1.000	0	0	

MakutBuragohain
Requisitoner

Signature of Receiver

Issuer

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 37 **Reservation Date:** 18.05.2021 **Material Issue No.** 4900000053 **Material Issue Date:** 19.01.2021

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Stn. Loc: 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Stn. Loc : A001 - CS SH1 - EM1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req/Qty	Issued Qty.	Price	Total	Remark
1	3309802040800	MODULE DIAG,GEN PWR(PM-D)-GAS ENGINE	NO	1.000	1.000	587,672.32	587,672.32	

Mukutbiragohain
Requisitioner

Signature of Receiver

Issuer

2021-22
Sl. no (2)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 1958 Reservation Date: 19.03.2022 Material Issue No. 4930002090 Material Issue Date: 20.03.2022

Plant : 5100 : ASSAM GAS BASED POWER PLANT

Address : Street : Boloiani ,

Street2 : Boloiani Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786101 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc : 1510000118 GAS BOOSTER STATION AGBPP

Issg. Str. Loc : AB01 : CS SH1 : FM1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	8000010098348	THERMOSTAT 160 DEG F 12V 2PSGL+	NO	4.000	4.000	4,933.58	19,734.32	
2	8000010008399	GASKET OIL THERMOSTAT COOR 12V 2PSGL +	NO	1.000	1.000	13,648.94	13,648.94	
3	3000009447	Actuator, 2WD, Gas Engine	NO	0.000	0.000	0	0	
4	8000010084460	VALVE PRESSURE RELIEF 290/300A-275GL+	NO	1.000	1.000	95,845.74	95,845.74	
5	7290002000000	GASKET CYLINDER HEAD G3516 GAS EGEM	NO	1.000	1.000	27,118.59	27,118.59	

Maistturage/Sain
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2021-22.
Sl. no. (3)

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North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 1719 **Reservation Date:** 23.02.2022 **Material Issue No.** 4900001823 **Material Issue Date:** 23.02.2022

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Boloukoni,
Street2 : Boloukoni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Sto. Loc : 1510000E17 - POWER HOUSE AGBPP

Issg. Sto. Loc : N801 - CS SH1- EM1

Work Order/ Description :

S.NO.	Material Code	Material Description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3000000351	ABB SPS CB 220kV 40 KA Complete set	SET	0.000	0.000	0	0	
2	5056500620470	BEARING 6204 2ZR	NO	2.000	2.000	169.25	338.5	
3	5056500650370	BEARING 6309 2ZR	NO	1.000	1.000	1,014.24	1,014.24	
4	6307906101160	TIMER 415VAC 1-30 SEC DM 2000	NO	2.000	2.000	4,263.14	8,526.28	

RishavBaragohain
Requisitioner

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2021-22.
Sl. no. (4)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 3046 Reservation Date: 26.03.2022 Material Issue No. 4900002103 Material Issue Date: 28.03.2022

Plant : 5400 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni .

Street3 : Bokuloni Village .

City : Dibrugarh Dibrugarh .

PostCode : 786191 .

Region : 18 .

Country : IN

Cost Center/ Recv. Sto. Loc : 1518060118 - GAS BOOSTER STATION AGBPP

Issg. Str. Loc : ABDI - CS SHI BN1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	30000071	Gas Compressor, 25 inch Piston & Rod as	NO	1.000	1.000	0	0	

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Sl. No (5)

North Eastern Electric Power Corporation Limited

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STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 367 **Reservation Date:** 02.08.2021 **Material Issue No.** 4901000415 **Material Issue Date:** 02.08.2021

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Sto. Loc : 1518000018 - GAS BOOSTER STATION AGBPP

Issg. Sto. Loc: M001 - CS SHS- EM1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	7250900200003D	PISTON & RD ASSY,GEGGAS COMP	NO	1.000	1.000	1	1	
2	8909008090080	BOOSTER HEATER,3KW,12V 2756L+	NO	1.000	1.000	12,056.93	12,056.93	
3	3210004500600	MASKIN CLOTH	M	36.000	35.000	24.97	873.12	

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North Eastern Electric Power Corporation Limited

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STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 2029 **Reservation Date:** 26.03.2022 **Material Issue No.** 4900002037 **Material Issue Date:** 26.03.2022

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Sto. Loc: 1516000115 - STEAM TURBINE&CONTROL/AUXILIARY

Issg.Str.Loc: A802 - CS SH2- EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	300000434	STEAM STRAINER,316 SS#FW, ESW	EA	1.000	1.000	0	0	
2	7303004000000	SEAL RING STG	NO	1.000	1.000	171,336	171,336	
3	9001005000000	CUTTING/GRINDING WHEEL IS:2124 D-125mm	NO	50.000	50.000	41.82	2,091	
4	2809002000000	STRONG ACID CATION RESIN (T-42Hx)W	L	3775.000	3775.000	146.58	553,264	
5	3401000000000	DPT: CLEANER	NO	25.000	25.000	166.34	4,159	
6	2853003201640	DIAPHRAGM VALVE,EBCF FIG.650mm	NO	2.000	2.000	2,229.85	14,459.7	
7	4000000085	GLV SW HO FAS CLASS 1500 25mm	NO	1.000	1.000	0	0	
8	2719024900000	ELBOW LR AS A234 GR.WPB2 3"[80] SCH 40	NO	4.000	0	0	0	
9	4000000002	GATE VALVE HO SS CLASS-800 25[1"]	NO	1.000	1.000	0	0	

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22-23

North Eastern Electric Power Corporation Limited

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STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 6955 **Reservation Date:** 18.04.2023 **Material Issue No.** 4900007057 **Material Issue Date:** 18.04.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bokuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 10,
Country : IN

Cost Center/ Recv. Stn. Loc: 1510001118 - GAS BOOSTER STATION AGBPP

Iss. Stn. Loc: AB01 - CS SHI - EM1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	8309000040040	KIT-ADMISSION VALVE REPAIR/GAS ENGINE	NO	12.000	12.000	105,122.08	1,261,464.96	
2	8309003016820	ELEMENT,AIR FILTER/GAS ENGINE-	NO	6.000	6.000	59,565.68	357,394.08	
3	8309002000010	PAD,PRE-FILTR/GAS ENGINE-	NO	6.000	6.000	4,534.02	27,204.12	
4	8309002072060	SEALS KIT,PANNI/GAS ENGINE-	NO	1.000	1.000	33,452.21	33,452.21	
5	1000000000	Head Cylinder - WWI/8Z5NW TZ V275SLA-	NO	1.000	1.000	0	0	
6	8309002072000	SINGLE HEAD REPAIR KIT/GAS ENGINE-	SET	1.000	1.000	50,878.53	50,878.53	
7	8161205043150	LUBE PUMP 8M5S3MA; COMPRESSOR; 6-HOS 4-2	NO	2.000	2.000	37,825.72	75,651.44	
8	8309000020010	FILETR,LUBE OIL/GAS ENGINE-	NO	6.000	6.000	5,019.72	30,118.32	

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2022-23.
Sl. no (1)

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North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 6752 Reservation Date: 30.01.2023 Material Issue No. 4000006823 Material Issue Date: 30.03.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokulani,

Street2 : Bokulani Village,

City : Dibrugarh Dibrugarh,

PostCode : 786191,

Region : 18,

Country : IN

Cost Center/ Recv. Sto. Loc : 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Str. Loc: A801 - CS SHT- EMI

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	37267122602008	WEBSLING 1-4.3t VH WITH EYES Wxl-50x170 2T	NO	2.000	2.000	2000	4,000	
2	37287122602613	WEBSLING 1t POLYSTR 2t 1t Wxl-50mmx2M 3T	NO	2.000	2.000	2000	4,000	
3	83299810840040	MT-WOMAGON WHITE REPAIR GAS ENGINE	NO	12.000	12.000	52,563.04	630,732.48	
4	30000044560800	COPPER WASHER	NO	2.000	2.000	293.71	587.5	
5	3000000154	ACTUATOR ASM, GAS REGULATING GAS ENGINE	NO	1.000	1.000	0	0	

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2022-23.
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North Eastern Electric Power Corporation Limited

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STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 4915 **Reservation Date** 06.12.2022 **Material Issue No.** 4/00005183 **Material Issue Date:** 06.12.2022

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street: Bokuloni ,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Stg. Loc: 1510000818 - GAS BOOSTER STATION AGBPP

Isng. Str. Loc: AB01 - CS SHT- BM1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req Qty	Issued Qty.	Price	Total	Remark
1	3472200150220	Servo Prus C 220 grade lubricating oil	L	420.000	420.000	176.59	74,1958	
2	3171201010680	OIL: ENGINE OIL SHELL/VITELLA 55H40	L	418.000	418.000	349.97	146,155.66	
3	3307207020690	SEAL TAFLON PTFE UNS-N19980 ID 5.4643 20mm	NOS	1.000	1.000	98.59	98.59	
4	9309930801000	HACKSAW BLADE BPCO	NO	3.000	3.000	10.85	10.67	
5	7250108200060	GASKET-OUTER HEAD-GRS/GAS COMP	NO	1.000	1.000	27,110.59	27,110.59	
6	300000571	23° Pistone Rod Assy.	1.00	1.00	-	-	-	

Mukut Buragohain
Requisitoner

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2022-23.
Sl. no. (3)

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 4633 **Reservation Date:** 17.11.2022 **Material Issue No.** 4900001786 **Material Issue Date:** 17.11.2022

Plant : 5800 - ASSAM GAS BASED POWER PLANT

Address : Street : Behiakuri,

Street2 : Bokulani Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Ste. Loc : 1580000118 - GAS BOOSTER STATION AGBPP

Issng. Str. Loc : A800 - CS SHD- 8802

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3000000447	Actuator, 2000, Gas Engine	NO	1.000	1.000	0	0	

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2022-23.
81. No. (4)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 9515 Reservation Date: 04.11.2023 Material Issue No. 4000001665 Material Issue Date: 04.11.2023

Plant : 5100 ASSAM GAS BASED POWER PLANT

Address : Street: Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc : IS160000117 POWER HOUSE AGBPP

Issg. Str.Loc: A001 - CS SH1 EMI

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req/Qty	Issued Qty.	Price	Total	Remark
1	521000400000080	MARVIN CLOTH	M	120.000	120.000	21.67	2,600.4	
2	5050N000907780	BEARING 6307 2ZR	NO	4.000	4.000	531	2,124	
3	5050B06309760	BEARING 6304 2ZR	NO	5.000	5.000	1,024.24	5,121.2	
4	5050B06210745	BEARING 6206 2Z	NO	6.000	6.000	278.48	1,670.88	
5	5050B06310745	BEARING 6310 2Z	NO	2.000	0	0	0	
6	5000001920	3Ph VDTOR IV 325 4POLE 150BRW 75KW 2805	NO	1.000	1.000	0	0	
7	5050B06304745	BEARING 6304 2Z	NO	2.000	2.000	259	518	
8	3471205305550	OIL (1,335 SERVO-ELECTRA TRANSFORMER OIL)	L	420.000	420.000	174.72	73,382.4	
9	6518220876000	HRC FUSE LINK 63A PSB	NO	9000	9000	153.89	1,385.01	
10	6511900040024	SWITCH DIS CONNECTOR FUSE UNIT 400A TN	NO	1.000	1.000	8,754.62	8,754.62	
11	3710039800000	CHEMICAL REAGENT SILICA GEL	KG	25.000	25.000	134.49	3,362.25	

RishavBuragohain
Requisitioner

Signature of Receiver

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2022-23
Sl. no (5)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 6399 Reservation Date: 06.03.2023 Material Issue No. 4000006426 Material Issue Date: 06.03.2023

Plant : 5100 ASSAM GAS BASED POWER PLANT

Address : Street: Bokuloni ,

Street2 : Bokuloni Village,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Stn. Loc : 1S160001 1S - STEAM TURBINE&CONTROL/AUXILIARY

Iss g. Str. Loc : A802 - CS SH2- EMD

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3101009059990	SODIUM CHLORIDE IS-1065 99.9%	KG	2400.000	2400.000	9.32	22,368	
2	8842000000250	SMALL ANGLE GRINDER 220 250VAC 50Hz	NO	2.000	2.000	4,084	8,168	
3	8040501010680	BLOWER668 CMH 900MMWC FIVE WITH MOTOR	NO	1.000	1.000	182,900	182,900	
4	2000101000584	FLANGE CPVC ASTM-450/D2846 DN 80 SCH-80	NO	1.000	1.000	647.45	647.45	
5	2050600003516	PIPE CPVC ASTM F441 NPS-25 SCH-80	M	5.000	5.000	465.99	2,349.95	
6	2000101000834	FLANGE CPVC ASTM-F450/D 2846 DN 25 SCH-80	NO	5.000	5.000	468.99	2,499.97	
7	2000447000834	BEND CPVC 6 DN 25 SCH 80	NO	1.000	1.000	194.99	194.99	
8	8490852600000	PILOT OPERATED RELIEF VALVE OF JOP	NO	1.000	1.000	6,900	6,900	
9	3000010/19	6.6 KV, 550 KW Vertical C/W Pump Motor	NO	1.000	1.000	0	0	
10	2050800000516	PIPE CPVC ASTM F441 NPS-25 SCH-80	M	15.000	15.000	469.00	7,035.85	

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2022-23
Sl. no. (6)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 4937 **Reservation Date:** 07.12.2022 **Material Issue No.** 4900035193 **Material Issue Date:** 07.12.2022

Plant : 5108 ASSAM GAS BASED POWER PLANT

Address : Street : Sokuluai ,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Sto. Loc : 1510000223 STATION FACILITY DIVISION

Issg. Str. Loc : ABE1 CS SHT BMI

Work Order/ Description :

S/NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	1816000000	PLATE CHEQUERED IS2502 6.0mm	MT	2.000	2.000	107,995	215,990	
2	5817	INSULATION TAPE IS 7616 19.20MM	RO	5.000	5.000	37.45	187.25	
3	6	SDW LED FLOOD LIGHT	NO	21.000	21.000	655	13,755	
4	1011	CLEANER BUTT REMOVER RUSTOLENE	L	1.000	1.000	400.00	400.00	
5	5210	HARDIN CLOTH	M	33.000	33.000	24.67	814.11	
6	900	SCROLL CONVEYOR ASSEMBLY, CERTIFICA	NO	1.000	1.000	0	0	
7	8140	LOCK WASHER OF ETP MBR 6M 51 11	NO	1.000	1.000	504.45	504.45	

ProbirMahanta
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2022-23.
Sl. no. (₹)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 9741 Reservation Date: 24.11.2023 Material Issue No. 4900029863 Material Issue Date: 24.11.2023

Plant : 5100 ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,

Street2 : Bokuloni Village,

City : Dibrugarh Dibrugarh,

PostCode : 786184,

Region : IN,

Country : IN

Cost Center/ Recv. Sto. Loc : 5510000119 CONTROL & INSTRUMENTATION AGBPP

Issg. Str. Loc : A801 CS SHD RMT

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3000091063	FLAME DETECTOR 115A2708F001 QSFDI	NO	2.000	2.000	0	0	

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2022-23
81. no. (8)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 1592 Reservation Date: 26/08/2022 Material Issue No. 4900003739 Material Issue Date: 26/08/2022

Plant : 5100 ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc : 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Sto. Loc : ABGI - CS SHI - 5101

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
	2250100400040	VALVE DISCHRGE ASSY-XP-GBS COMP 16.25 CYL	NO	8.000	8.000	119,047.33	476,549.99	
	8100020016820	ELEMENT,AIR FILTER GAS ENGINE	NO	6.000	6.000	59,585.68	357,514.08	
	6500220200018	PAPER FILTER GAS ENGINE	NO	6.000	6.000	4,934.02	27,204.12	
	8309002017090	SPARK PLUG GAS ENGINE	NO	12.000	12.000	26,428.77	317,272.24	
	8309001004048	KIT-ADMISSION VALVE REPAIR GAS ENGINE	NO	12.000	12.000	52,561.04	630,732.48	
	4000001220000	CRE 3-24	NO	1.000	1.000	172.31	172.31	
	3000000035	ACTUATOR,HIGH ENERGY IGNITION GAS ENGINE-TECHNOSHA	NO	1.000	1.000	0	0	
	8309002000000	PICK UP ASSY,MAGNETIC,GAS ENGINE	NO	1.000	1.000	10,047.48	10,047.48	
	3000010002	MODULE EXCITATION FOR PPU DI GAS ENGINE	NO	1.000	1.000	0	0	
	7250101000068	BULLET,GAS,GAS COMP 16.25" CYLINDER	NO	1000.000	1000.000	619.00	619,540	
	7250100100060	SPRING & PISTON ASSY,COMP 16.25" CYLINDER	NO	1000.000	1000.000	261.80	261,840	

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2022-23.
Sl. no. (9)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 6248 Reservation Date: 25.02.2023 Material Issue No. 4900006378 Material Issue Date: 25.03.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bakulani ,
Street2 : Bakulani Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv.Sto. Loc. : 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Str.Loc. : AB02 - CSSH2 - EMT

Work Order/ Description :

S.NO.	Material Code	Material Description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	300000088	ACTUATOR,HEIZMANN,GAS ENGINE-KRAUSE(SAN)	NO	1.000	1.000	0	0	

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Bl. No. (9)

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North Eastern Electric Power Corporation Limited

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STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 10185 **Reservation Date:** 29.12.2023 **Material Issue No.** 4900010337 **Material Issue Date:** 29.12.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,
Street2 : Bakuloni Village,
City : Dibrugarh Dibrugarh,
PostCode : 786191,
Region : 18,
Country : IN

Cost Center/ Recv. Sto. Loc: 1510050117 - POWERHOUSE AGBPP

Isng. Str. Loc: AB01 - CS SHQ- EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	7195901056B000	RIPPLE SPRING:BHEL GEN & AUX-GENERATOR	NO	25.000	25.000	519.2	12,980	
2	7100901011110	CONTACT PIN 41430730019-00 GENBAUX BHEL	NO	4.000	4.000	59,248.25	236,993	
3	7190500011150	CONTACT SOCKET TG871730004 GENBAUX BHEL	NO	2.000	2.000	57,631	115,262	
4	7190501052B050	HEAT SINK TYPE-I 21430831004-00 GENBAUX	NO	1.000	1.000	75,675	75,675	
5	7190501052B100	HEATSINK TYPE-III 21430831005-00 GENBAUX	NO	1.000	1.000	75,675	75,673	
6	7190501051B160	EARTHING BRUSH DESIGN-A TG971071A074 GENB	NO	8.000	8.000	11,876.25	95,014	
7	7190501051B200	EARTHING BRUSH DESIGN-B TG971071A120 GEN	NO	8.000	8.000	11,876.25	95,014	
8	7190501150A000	BEARING RTD'S TG970B00740 GENERATORBAUX	NO	2.000	2.000	27,258	54,516	
9	7100501151A140	DBL BRUSH HOLDER TG971283040 GENBAUX	NO	2.000	2.000	54,516	109,032	
10	3000001074	SF6 MVA GT 1st filling 10% of 1cylinder GB	NO	1.000	1.000	0	0	
11	7190501050A040	BHEL DL EXCITER DIODE NEGATIVE	NO	1.000	1.000	117,283.67	117,283.67	

Rishav Buragohain
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2022-23
Sl no. (10)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 9137 Reservation Date: 04.10.2023 Material Issue No. 4900009570 Material Issue Date: 06.10.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni,

Street2 : Bokuloni Village,

City : Dibrugarh Dibrugarh,

PostCode : 786191,

Region : AS,

Country : IN

Cost Center/ Recv. Sto. Loc: 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Sto. Loc: 0B01 - CS SH1 BM1

Work Order/ Description :

S.no.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	8909081000000	TRANSDUCER ASSY PRESSURE 0K MFL 2/SEL+	NO	1.000	1.000	22,013.33	22,013.33	
2	3000000013	Housing Assy Navigator 5 in 1B WAUKESHA	NO	1.000	1.000	0	0	
3	7250001000000	GATES WAVE TWING BELT, POWERGRIP GT2 14MM	NO	1.000	1.000	47,366.48	47,366.48	
4	7250100000000	GASKET-OUTER HEAD GBS GAS COMP	NO	1.000	1.000	27,110.39	27,110.39	

MukutBuragohain
Requisitioner

Signature of Receiver

Issuer

2023-24
Sl. No (2)

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 12217 **Reservation Date:** 31.05.2024 **Material Issue No.** 4500012240 **Material Issue Date:** 31.05.2024

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc: 1510000119 - CONTROL & INSTRUMENTATION AGBPP

Issg. Str. Loc: A802 - CS SH2 EN2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	6500050010007	P/GAUGE(1Kg/Sq.Cm/(200 mm)Sq ,150mm	NO	1.000	1.000	4,005.67	4,005.67	
2	3459000672675	ITOSBMOUNT SPARES-CHROMATOGRAPH/PCBA CPU	NO	1.000	1.000	187,745.92	187,745.92	
3	3000001694	CHROMATOGRAPH-GASBASEMOUNT SPS/PCBA CPU	SET	1.000	1.000	0	0	
4	6309900331576	CONVERTER IP CONVERTER YT-942 ROTORK	NO	2.000	2.000	18,555.69	32,111.38	
5	6317386212730	POSITORK TRANS (ETP-001-01LP2100301	NO	2.000	2.000	20,927	41,854	
6	6330140110310	REGULATOR AIR FILTER REGULATOR AR-ASMC	NO	2.000	2.000	4,608.91	9,217.82	
7	6500050229710	P/G(UG)(0-6Kg/Sq.Cm)(0-6000 mm)PCL150mm	NO	6.000	6.000	1,314.2	7,885.2	
8	6313188784900	IGN IRONSPARK PLUG W FIXTURES	NO	1.000	1.000	325,483.5	325,483.5	
9	6316450322660	VALVE ALWA ACTUATOR SA25A HRSG/ WHRB/STG	NO	1.000	1.000	213,816	213,816	
10	630V0036101111	Velocity Sensor 5485C	NO	1.000	1.000	268,717.01	268,717.01	
11	6108900910235	EXTENSION CABLE 36ft FOR VELOCITY SENSOR	NO	1.000	1.000	116,636.46	116,636.46	

Chidanga Baruah
Requisitioner

Signature of Receiver

Issuer

2023-24
Sl. no (3)

23 24

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 5005 Reservation Date: 23.09.2023 Material Issue No. 4900089062 Material Issue Date: 23.09.2023

Plant : 5100 : ASSAM GAS BASED POWER PLANT

Address : Street : Bokulani,

Street2 : Bokulani Village,

City : Dibrugarh Dibrugarh,

PostCode : 786191,

Region : 18,

Country : IN

Cost Center/ Recv. Sto. Loc : 5100000115 : STEAM TURBINE&CONTROL/AUXILIARY

Issg. Sto. Loc: MB01 : CS SH2 BMU

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
	3000004820001	WELDING ELECTRODE MS E6013 2.5mm	PAC	2.000	2.000	563.86	1,127.72	
2	8551004045960	BUSH TYPE FLEX COUPLING SIZE 3	SET	1.000	1.000	4267.21	4,267.21	
3	3000000383	REDUCTION GEAR UNIT(SR 36 GBOX)	NO	1.000	1.000	0	0	
4	2802109000054	FLANGE CPVC ASTM F439/D2846 DN 25 SCH 80	NO	6.000	6.000	469.99	2,819.91	

Diganta Kr. Gogoi
Requisitioner

Signature of Receiver

Issuer

2023-24
81. No. 1

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 11459 **Reservation Date:** 26.03.2024 **Material Issue No.** 4900011501 **Material Issue Date:** 26.03.2024

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street: Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc: 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Str. Loc: AB01 - CS SHT EMI

Work Order/ Description :

S.No.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	300000071	Gas Compressor, 28 Inch Piston & Rod ass	NO	1.000	1.000	0	0	

BhulDutta
Requisitioner

Signature of Receiver

Issuer

2023-24
Sl. no. (4)

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 10185 **Reservation Date:** 28.12.2023 **Material Issue No.** 4100010337 **Material Issue Date:** 29.12.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc: 1510000117 - POWER HOUSE AGBPP

Issg. Str. Loc : A002 - CS SHD- BMD

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued.Qty.	Price	Total	Remark
1	7190501005000	RIPPLE SPRING BHEL GEN & AUX-GENERATOR	NO	25.000	25.000	519.2	12,980	
2	7190501011130	CONTACT PIN 414302131019-00 GEN&AUX BHEL	NO	4.000	4.000	68,248.25	276,993	
3	7190501011150	CONTACT SOCKET TG9717243804 GEN&AUX BHEL	NO	3.000	3.000	57,631	115,262	
4	7190501028690	HEAT SINK TYPE-H 214303031004-00 GEN&AUX	NO	1.000	1.000	75,673	75,673	
5	7190501028700	HEATSINK TYPE-M 214303031005-00 GEN&AUX	NO	1.000	1.000	75,673	75,673	
6	7190501016160	EARTHING BRUSH DESIGN-A TG9710134074 GEN&	NO	8.000	8.000	11,876.75	95,014	
7	7190501016200	EARTHING BRUSH DESIGN-B TG9710714130 GEN	NO	8.000	8.000	11,876.75	95,014	
8	7190501034000	BEARING BUSH TG9578902740 GENERATOR&AUX	NO	2.000	2.000	27,258	54,516	
9	7190501014140	DBL BRUSH HOLDER TG9712803043 GEN&AUX	NO	2.000	2.000	54,516	109,032	
10	5000001014	10 MVA OT 1ct /Alleg 10% ect tapeprofl	NO	1.000	1.000	0	0	
11	7190501004040	BHEL BL EXCITER DIODE NEGATIVE	NO	1.000	1.000	117,203.67	117,203.67	

Bishnu Duragohain
Requisitioner

Signature of Receiver

Issuer

2023-24
Sl. No. (5)

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 10108 **Reservation Date:** 27.01.2024 **Material Issue No.** 4900010598 **Material Issue Date:** 27.01.2024

Plant : S100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc : 1510000115 - STEAM TURBINES/CONTROL/AUXILIARY

Issg. Str. Loc : A003 - CS 043- RM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	3431207504900	OIL: TURBINE IS:1012 VG:46 SERVO PRIME-46	L	840.000	840.000	181.7	152,628	
2	3101002101398	AMMONIUM MOLYBDATE AR	PAC	1.000	1.000	6,570	6,570	
3	3811302050000	SEALANT: POLYMER COMPOUND	NO	5.000	5.000	734.2	3,671	
4	3101001000250	AMMONIA LIQUID AR SOLUTION IS:799 25%	L	1000.000	1000.000	49.56	49,550	
5	3100003100300	ACID: HYDROCHLORIC ACID ISO:95 10%	BT	70.800	70.000	7,540.07	533,836.96	
6	9005005000000	BUFFING WHEEL(MOP) D- 100mm	NO	30.000	30.000	30.86	9264	
7	9300030000750	BRUSH FLAT IS:384 PAINT & VARNISH 75mm	NO	7.000	7.000	43.24	302.68	
8	9300030000500	BRUSH FLAT IS:384 HY DUTY POB PAINT 50mm	NO	8.000	7.000	34.01	238.07	
9	9300097500000	BRUSH: STEEL WIRE	NO	4.000	4.000	41.34	165.36	
10	4702014612000	HEX HD. SCREW WITH NUT- PAG M12x20 GLV	NO	6.000	6.000	13.8	76.8	
11	3000001697	VERTICAL TURBINE PUMP (INTAKE)	NO	1.000	1.000	0	0	

Diganta Kr.Gogoi
Requisitioner

Signature of Receiver

Issuer

2023-24.
Sl. no. (6)

22-23

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 6995 **Reservation Date:** 10.04.2023 **Material Issue No.** 4900007657 **Material Issue Date:** 10.04.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,
Street2 : Bokuloni Village ,
City : Dibrugarh Dibrugarh ,
PostCode : 786191 ,
Region : 18 ,
Country : IN

Cost Center/ Recv. Stg. Loc : 1510000118 - GAS BOOSTER STATION AGBPP

Issg. Stg. Loc : AB01 - CS SHI - EN I

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	8309001004004D	KIT-ADMISSION VALVE REPAIR:GAS ENGINE	NO	12.000	12.000	105,122.04	1,261,464.50	
2	8309003016020	ELEMENT,AIR FILTER:GAS ENGINE	NO	6.000	6.000	59,555.68	357,334.08	
3	8309002006010	PAD,PRE-FILTER:GAS ENGINE	NO	6.000	6.000	4,534.02	27,204.12	
4	8309003072050	SEALS KIT,RWB:GAS ENGINE	NO	1.000	1.000	33,452.21	33,452.21	
5	2000000015	Head Cylinder - WAUKESHA 12 V200GL	NO	1.000	1.000	0	0	
6	8309002072000	SINGLE HEAD REPAIR KIT:GAS ENGINE	SET	1.000	1.000	50,818.53	50,818.53	
7	8101350047100	LUBE PUMP R8559N, COMPRESSOR, G-HDS 4-2	NO	2.000	2.000	37,825.72	75,651.44	
8	8309002002010	FILETR,LUBE OIL:GAS ENGINE	NO	6.000	6.000	5,019.22	30,115.32	

Mukutburagohain
Requisitioner

Signature of Receiver

Issuer

2022-23.
Sl. no (1)

Page 1 of 1

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 9515 Reservation Date: 04.11.2021 Material Issue No. 4100009603 Material Issue Date: 04.11.2021

Plant : 5100 ASSAM GAS BASED POWER PLANT

Address : Street : Bokulani ,

Street2 : Bokulani Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Stg. Loc : 1510000117 POWER HOUSE AGBPP

Issg. Stg. Loc: AB01 - CS SHI EMI

Work Order/ Description :

S.NO.	Material Code	Material Description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	5216304800000	MARKIN CLOTH	M	140.000	120.000	29.67	2,060.4	
2	5056500307780	BEARING 6307 2ZR	NO	4.000	4.000	501	2,004	
3	5056500306980	BEARING 6309 2ZR	NO	5.000	5.000	1,004.24	5,021.2	
4	5056500306745	BEARING 6205 2Z	NO	6.000	6.000	278.48	1,670.88	
5	5056500515745	BEARING 6316 ZZ	NO	2.000	0	0	0	
6	3808001005	5Ph MOTOR IE3 15 4POLE 150SPN 250M 2885	NO	1.000	1.000	0	0	
7	5056500304745	BEARING 6304 2Z	NO	2.000	2.000	259	518	
8	3470205055590	OIL IS 335 SERVO ELECTRA(TRANSFORMER OIL)	L	420.000	420.000	134.32	73,772.4	
9	6510222070000	HRC FUSE LINK 63A VSR	NO	9.000	9.000	153.39	1,380.51	
10	6511508040034	SWITCH 3/S CONNECTOR FUSE UNIT 400A RN	NO	1.000	1.000	8,754.62	8,754.62	
11	3108001800000	CHEMICAL REAGENT SILICA GEL	KG	25.000	25.000	134.49	3,362.25	

RishavBuragohain
Requisitioner

Signature of Receiver

Issuer

2022-23.
81.140 (5)

North Eastern Electric Power Corporation Limited

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 9741 Reservation Date: 24.11.2023 Material Issue No. 4900091661 Material Issue Date: 24.11.2023

Plant : 5100 ASSAM GAS BASED POWER PLANT

Address : Street : Bokulani ,

Street2 : Bokulani Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv. Sto. Loc : 1510020119 CONTROL & INSTRUMENTATION AGBPP

Sng. Str. Loc : AB01 CS SH1 EM1

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	[illegible]	FLAME DETECTOR S1SA2705F021 QBFD1	NO	2.000	2.000	0	0	

ChidangaBarush
Requisitioner

Signature of Receiver

Issuer

2022-23
81. no. (8)

Page 1 of 1

North Eastern Electric Power Corporation Limited

Miniratna : Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

STORES REQUISITION AND ISSUE VOUCHER

Reservation No. 10185 **Reservation Date:** 20.12.2023 **Material Issue No.** 4900010337 **Material Issue Date:** 20.12.2023

Plant : 5100 - ASSAM GAS BASED POWER PLANT

Address : Street : Bokuloni ,

Street2 : Bokuloni Village ,

City : Dibrugarh Dibrugarh ,

PostCode : 786191 ,

Region : 18 ,

Country : IN

Cost Center/ Recv.Sto. Loc: 1510000117 - POWER HOUSE AGBPP

Issg.Str.Loc: A802 - CS SH2- EM2

Work Order/ Description :

S.NO.	Material Code	Material description	UOM	Req.Qty	Issued Qty.	Price	Total	Remark
1	7190501066806	RIPPLE SPRING (BHEL-GEN & AUX GENERATOR	NO	25.000	25.000	519.2	12,980	
2	7190501011110	CONTACT PIN 41410731019-00 GENAUX BHEL	NO	4.000	4.000	69,248.25	276,993	
3	7190501011110	CONTACT SOCKET TG0712349004 GENAUX BHEL	NO	2.000	2.000	37,631	188,263	
4	7190501028650	HEAT SINK TYPE-II 21430831004-00 GENAUX	NO	1.000	1.000	15,675	75,673	
5	7190501028700	HEATSINK TYPE-III 21430831005-00 GENAUX	NO	1.000	1.000	15,675	75,673	
6	7190501016160	EARTHING BRUSH DESIGN-A TG0711671-1071 GEN'S	NO	8.000	8.000	11,876.75	95,014	
7	7190501016300	EARTHING BRUSH DESIGN B TG0711714120 GEN	NO	8.000	8.000	11,876.75	95,014	
8	7190501004000	BEARINGLATCH TG0705000745 GENERATORSAUX	NO	2.000	2.000	27,258	54,516	
9	7190501014140	DBL BRUSH HOLDER TG0712855003 GENSAUX	NO	2.000	2.000	54,516	109,032	
10	3000001071	SERVICE OF Turbine Type Anti Lapse Oil	NO	1.000	1.000	0	0	
11	7190501003403	BHEL BL EXCITER DIODE NEGATIVE	NO	1.000	1.000	117,303.67	117,303.67	

RishavBuragohain
Requisitioner

Signature of Receiver

Issuer

2022-23
81 no. (10)

नॉर्थ इस्टर्न इलेक्ट्रिक पावर कार्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बकुलनि, जिला-डिब्रुगढ़, आसाम, पिन - ७८६ १९१

North Eastern Electric Power Corporation Ltd.
(A Govt. of India Enterprise)
www.neepco.gov.in
ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 191
0374-2826216, EPABX 2826207/2826423/2826208 FAX : 0374-2826346/2826317
E-mail : gbpgas@sancharnet.in, agbpghp@sancharnet.in

ISO 9001:2008
ISO 14001:2004
OHSAS 18001:1999

No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/ 635

Dated 24.01.2019

To,

M/S Clarke Energy India Private Limited
Shivkiran, Plot No. 160, Lane No. 4, CTS No. 632
Dahanukar Colony, Kothurd, Pune, Maharashtra
India – 411 038

Kind Attn. Mr Punit Garg, Managing Director

Sub: NEEPCO: Assam Gas Based Power Plant – Detail purchase order for Renovation & Modernization of Waukesha make Gas Engine and its Auxiliaries (GBS Unit 4) at AGBP

Ref:
1. Our enquiry ref: NEEPCO/AGBP/SFC/GBS-25(R&M)/2018-19/422 Dated 07/09/2018
2. Our enquiry ref: NEEPCO/AGBP/SFC/GBS-25(R&M)/2018-19/359 Dated 14/09/2018
3. Your Techno Commercial offer ref. WT/CEI-18/S-Quote-S-1165/R01/164 Dated 05/10/2018.
4. Our letter No. NEEPCO/AGBP/SFC/GBS-25(R&M)/2018-19/418 Dated 15/10/2018
5. Your letter ref: VVT/CEI-18/S-Quote-S-1165/R01/218 Dated 31/0/2018
6. Our letter No. NEEPCO/AGBP/SFC/GBS-25(R&M)/2018-19/489 Dated 16/11/2018
7. Your letter ref: VVT/CEI-18/S-Quote-S-1165/R01/223 Dated 23/11/2018
8. MOM held at AGBP, NEEPCO Dated 12/12/2018
9. Your E-mail Dated 24/12/2018
10. MOM held at HQ., NEEPCO, Shillong Dated 27/12/2018
11. Our LOI ref: NEEPCO/AGBP/HOP/2018-19/W-10(A)/577 Dated 31/12/2018
12. Your E-mail Dated 02/01/2019
13. Our letter No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/590 Dated 04/01/2019
14. Your acceptance of LOI vide Ref: SM/CEI-2019/224 dtd 4th January, 2019

Dear Sirs,

With reference to above, the North Eastern Electric Power Corporation Ltd is pleased to place this detail supply order for design, manufacturing, testing, packing, dispatch and insurance, supply of plant, equipment, materials and other components for Renovation & Modernization of 4th unit of Gas Engine and its Auxiliaries at Gas Booster Station of Assam Gas Based Power Plant (291 MW), Assam, India as per Schedule of Requirement for supply at ANNEXURE-II and terms and conditions mentioned below:

1.0 Contract Price:

1.1 The contract Price for the entire scope of supply shall be Rs. 18,06,08,215.00 (Rupees Eighteen Crores Six Lakhs Eight Thousand Two Hundred Fifteen) only inclusive all applicable taxes & duties (GST) and insurance.

1.2 The schedule of Prices against the contract is enclosed at ANNEXURE-I

1.3 The contract price shall remain FIRM during the entire period of the Contract and no escalation shall be allowed on the same.

2.0 Completion Schedule / Delivery of materials:

Time is the essence of the contract. Design, manufacture, testing, packing, dispatch and insurance and supply of Plant/ equipment, materials and other components along with the erection, testing & commissioning under the contract shall be completed within 12 (twelve) months from the date of Techno-commercially clear purchase order. The supply shall be completed within such time as per the approved project schedule. The Contractor shall so organize his resources and perform his work as to complete it not later than the date agreed to. The time for completion of his works Contracted for shall be reckoned from the date of issue of the Techno-commercially clear order by the Purchaser.

3.0 **Terms of Payment:**

(a) **For Supplies**

(i) 10% (ten percent) of the total contract supply price excluding GST for supply shall be paid as non-recoverable down payment on submission of Bank Guarantee of equivalent amount, along with interest at the rate of 1.5% (one and half percent) above BPLR of State Bank of India (The Proforma of Bank Guarantee enclosed), with validity period up to 90 (ninety) days after the schedule date of successful completion which will be subject to fulfilment of following conditions.

(a) Unconditional acceptance of the LOI and detailed supply and Work order.
(b) Submission of Contract Performance Guarantee and acceptance of thereof.
(c) Submission of L1 network indicating therein various key phases of work such as, but not limited to Design/Drawing approval, manufacture, testing, transportation, receipt at final destination site.
(d) Billing break up and its approval.
(e) Signing of contract agreement.
(f) Submission of Drawing submission schedule which shall form a part of the Contract Agreement.

The value of the Bank Guarantee against Down Payment shall be allowed to be reduced every 6(Six) months in proportion to the value of materials received at site. The Bank Guarantee shall automatically become null and void and discharged when the Bank Guarantee amount is reduced to zero. However, validity of Bank Guarantee shall be valid till such time the subsequent Bank Guarantee for reduced amount is received and accepted by the Purchaser.

(ii) 65% (sixty-five percent) of the contract supply price including GST shall be paid on pro rata basis on dispatch on production of the following to the consignee:

(a) Proof of dispatch (Lorry receipt/railway receipt)
(b) Contractor's detailed invoice.
(c) Detailed packing list.
(d) Test certificate and/or duly approved inspection certificate, or proof of waiver of inspection / tests.
(e) Proof of dispatch clearance certificate.
(f) Documentary evidence against payment of Taxes and Duties.

In case the Contractor does not avail the down payment as per Cl. (i), the above amount will be 75% instead of 65%.

(iii) 15% (Fifteen percent) of Contract supply price including GST amount shall be paid on receipt of materials at site in full and good conditions and duly certified by the Engineer- in Charge.

(iv) Balance 10% (Ten Percent) of the total Contract Price including GST amount shall be paid "Final Acceptance" of the entire plant / equipment. However, on written request of the Contractor, this balance (ten percent) amount may be released against submission of Bank Guarantee for equivalent amount and the BG to be kept valid till "Final Acceptance" of the entire plant/equipment. However, such arrangement shall not relieve the contractor of any of his obligations towards completion of all works as per terms of the Contract.

(v) All payments shall be released as above subject to finalization of Billing break up. Billing breakup for the supply component shall be finalized before signing of the Contract Agreement and the same shall form a part of the Contract Agreement.

If the contractor fails to complete the supply within the stipulated period as per approved schedule, the purchaser reserves the right to encash the bank guarantee submitted towards down payment. In case of encashment of BG, the 1.5% (one and half percent) interest above BPLR shall also be recoverable.

(b) **For Inland Transportation, Transit Insurance and Local Insurance:**

Inland Transportation (including port-handling) and Inland Insurance charges shall be paid to the Contractor pro-rata to the value of the equipment received at the site and on production of invoices by the Contractor. However, where equipment wise inland transportation charges shall be made after received of equipments at site and submission of documentary evidences. The aggregate of all such pro-rata payment shall, however, not exceed the total amount quoted by the Contractor and incorporated in the contract. In case the schedule completion period gets extended due to reasons not attributable to the contractor the additional insurance premium for such extended period shall be reimbursed by the purchaser on production of documentary evidences.

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4.0 Mode of Payment:

All payments due to the Contractor shall be disbursed under e-payment system. The Engineer in Charge or his authorized representatives will verify and certify the Contractor's invoices, indicating payment instructions (full bank details) for disbursement.

The contractor shall have to furnish the following information for receiving payment against the work through e-payment system:

1. Name of beneficiaries:	2. Name of the Bank:	3. Branch of the Bank:
4. IFSC code of the Branch:	5. Account No.:	6. City/Town:
7. Fax No.:	8. Telephone No.:	9. E-mail address:

6.0 Bank Charges:

All bank charges of the Contractor's bank, within or outside India, shall be to Contractor's account.

6.0 Paying Authority:

Paying Authority for payments shall be Head of Finance, Assam Gas Based Power Plant, Bokuloni, Dist. Dibrugarh, Assam, PIN: 786191.

7.0 Withholding Payment:

7.1 The Purchaser may withhold the whole or part of any payment for the supply claimed by the contractor which, in the opinion of the Purchaser, is necessary to protect himself from loss on account of:

a. Defective work not remedied or guarantees not met,
b. Failure by the contractor to make payments for materials, labor employed by him and their PF dues.
c. Claims filed against the Contractor
d. Loss to another Contractor directly employed by the Purchaser
e. Insufficient progress
f. Damage or loss of property or equipment of the purchaser,
g. Non-return of equipment / materials supplied by the purchaser when the same is due.
h. If legal case is instituted by the local Government for default of the Contractor

7.2 When the grounds for withholding payment are removed, payments of the amount due to the contractor shall be made by the purchaser without delay.

8.0 Liquidated damage for delay in supply and completion of the works:

Time is the essence of the Contract. If the performance of the Contract is delayed beyond the time schedules incorporated in the Contract, due to reasons attributable to the Contractor, the Purchaser shall, without prejudice to his right, recover the following damages for breach of the Contract.

A. For delay in commissioning of the unit beyond the scheduled dates of the contract, deduct 1/2 % (half percent) of the Total Contract Price of Contract per week or part thereof of delay, subject to a maximum of 10% (Ten Percent) of the Total Contract Price of Contract.

B. Execute or authorize the execution of the work departmentally or through any other Agency without any notice to the Contractor at the risk and cost of the Contractor. Action against this sub-clause shall be taken after giving notice of 15(Fifteen) days by the Purchaser to the Contractor for any delay in performance of the Contract. The decision of the Purchaser in this regard shall be final and binding upon the Contractor. However, the above action shall be taken without cancelling the Contract in respect of work not yet due for execution, or

C. Cancel the entire Contract or a portion thereof and, if so desired, execute or authorize the execution of the work departmentally or through any other agency at the risk and cost of the Contractor. If the Contractor had defaulted in the performance of the Contract, the Purchaser may ignore the rates quoted by him for respective work even though the lowest for executing through other agency.

D. Where action is taken under Sub-Clause B or Sub-Clause C above for failure to complete the work, the Contractor shall be liable for any loss, which the Purchaser may sustain on that account. However, the Contractor shall not be entitled to any gain on such execution and the manner and method of such execution shall be at the entire discretion of the Corporation. It shall not be necessary for the purchaser to serve a notice of such execution on the Contractor.

9.0 Force Majeure:

9.1 If either Contractor or Purchaser (hereafter called as party) is temporarily unable by reason of Force Majeure or the laws or regulations of India to meet any of its obligations under this Agreement and if such party gives to the other party written notice of the event within 14 (fourteen) days after its occurrence, such obligations of the party as it is unable to perform by reason of the event shall be suspended for as long as the Force Majeure condition continues.

9.2 The Purchaser or his authorized representative, on receipt of notification, shall ascertain the facts and extent of the delays and suitably extend the time for completing the work or stage of work where, in his judgment the findings of facts justify an extension. The period of extension of time shall be determined by the Purchaser or his authorized representative after taking into consideration the nature of the work delayed and practicability of its execution during the period of extension.

9.3 Although the time for completion of works shall be suitably extended as indicated in Clause no. 9.2 above, such extension shall not result in any other financial claim of the Contractor against the Purchaser on any account, whatsoever.

9.4 Neither party shall be liable to the other party for loss or damage sustained by the other party arising from any event referred to in clause or delays arising from such event

9.5 If, by virtue of clause referred above, either party shall be exempted from the performance of punctual performance of any obligation for continuous period of 6(six) months, then the parties shall consult together with a view to agreeing what action should, in the circumstances, be taken and what amendments to the terms of this Agreement ought to be made.

9.6 The term "Force Majeure" shall, herein, mean riots (other than among the Contractor's employees), Civil commotion (to the extent not insurable), war (whether declared or not), invasion, act of foreign enemies, hostilities, civil war, rebellion, revolution, insurrection, military or usurped power, damage from aircraft, nuclear fission, acts of God, such as floods, earthquake, lightning, fires not caused by Contractor's negligence and other such cause over which the Contractor has no control and are accepted as such, by the Engineer-in-Charge, whose decision shall be final and binding. In the event of either party being rendered unable by "Force Majeure" to perform any obligation required to be performed by them under the Contract, the relative obligation of the party effected by such "Force Majeure" shall be treated as suspended for the period during which such "Force Majeure" cause lasts, provided the party alleging that it has been rendered unable, as aforesaid, thereby shall notify within 10(ten) days of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of such cause.

10.0 Guarantee / Warranty:

a. For a period of 12 (Twelve) calendar months from the date of the first commercial operation of the unit or 24 (Twenty-Four) calendar months from the date of last supply, whichever is earlier (called the Warranty Period), the Contractor shall remain liable to replace any defect and/or rectify any damage/deficiency that may develop or remained undetected in the equipment/works of his own or those of his sub-Contractors. Such defects and / or damage shall be repaired or replaced as per the decision of the Engineer-in-charge and solely at the cost of the Contractor. The replaced defective parts will be returned to the Contractor at his own expense, unless otherwise arranged. No repairs or replacement shall normally be carried out by the Engineer-in-charge when the equipment is under the erection / supervision of the Contractor's engineers. If, during the period of warranty, any portion of the equipment/works is found defective and is rectified/replaced, the

provision of this clause shall apply to the portion of the equipment so replaced/rectified until expiry of 12 (Twelve) calendar months from the date of such replacement / rectification. The rectification / replacement / repairs shall be done at the shortest possible time to minimize the loss of the Purchaser and as mutually agreed to. If any defects are not remedied within a reasonable period of time, the Purchaser may proceed to do the work through any other Agency at the Contractor's risk and expenses, but without prejudice to any other rights which the Purchaser may have against the Contractor.

b. In the event of emergency where, in the judgment of the Engineer-in-charge, delay would cause serious loss or damage, repairs, replacement, rectification, adjustment etc. may be done by the Engineer-in-charge or by any other Agency chosen by the Engineer-in-charge at the cost of the Contractor and without any advance notice to the Contractor. However, the Contractor will be notified promptly and he shall assist the Purchaser/other Agency employed for necessary corrections. This shall not relieve the Contractor from any of his liability under the terms of the Contract. In case of defective parts which are not repairable at site but are essential for the commercial operation of the equipment, the Contractor and the Engineer-in-charge shall mutually agree to a programme of replacement or renewal, which will minimize interruption to the maximum extent, in the operation of the equipment.

c. The repair or new parts will be furnished and erected free of cost by the Contractor. If any repair is carried out on his behalf at the site, the Contractor shall bear the cost of such repair/replacement.

d. In respect of goods supplied and or works done by the Sub-Contractors to the Contractor where a longer guarantee is provided by such sub-Contractors, the Purchaser shall be entitled to the benefit of such longer guarantee period.

e. In case of defective parts which are not repairable at site but are essential for the operation of the equipment, the Contractor and the Engineer-in-charge shall mutually agree to an improvised arrangement to be made by the Contractor to ensure continued plant operation and to a programme of replacement or renewal which will minimize interruption / dislocation to the maximum extent in the operation of the equipment. The cost of transportation, including all taxes & duties etc. as applicable, insurance of defective parts from site and replacement will be borne by the Contractor.

f. The above mentioned Clauses shall also be applicable to spares purchased before or after the completion of the Contract.

g. The provision of latent defects shall be applicable up to the end of 6 (six) years from the date of successful completion of trial operation of the unit.

h. It shall be expressly understood that all expenses in respect of replacement / repair during the warranty period or extended warranty period or as latent defects as noted above including, but not limited to, transportation cost, all taxes, duties and levies as applicable, etc. till such spare parts are installed in the main equipment/ plant after necessary repairs/ replacement and the main equipment/ plant is put back into operation, shall entirely be to the Contractor's account.

11.0 Spares:

a. All spares for the equipment under the Contract will strictly conform to the specification and documents and will be identical to the corresponding main equipment /components supplied under the Contract and shall be fully interchangeable.

b. Mandatory spares, as per list detailed in the technical specification shall be part of the contract.

c. The Contractor will provide the Purchaser with all the addresses and particulars of his sub suppliers while placing the order on vendors for items/components/equipment covered under the Contract and will further ensure with his vendors that, the Purchaser will have the right to place the order for spares directly on them on mutually agreed terms based on offers of such vendors, if so desired.

d. The spares will be warranted for a period of 12 (Twelve) calendar months from the date of Final Acceptance of the unit or 24 (Twenty-Four) calendar months from the date of last supply, whichever is earlier.

e. Without any extra cost, the Contractor shall provide the Purchaser with the manufacturing drawings, catalogues, assembly drawings, part numbers and any other information/documents required by the Purchaser in the form of manual(s) so as to enable the Purchaser to identify the mandatory, recommended and all other spares required during the whole life of all the equipment to be supplied.

f. The Contractor shall guarantee the long term availability of spares to the Purchaser for the full life of the equipment covered under the Contract. The Contractor shall guarantee that before going out of production of spare parts of the equipment covered under the Contract, he shall give the Purchaser at least 12 (twelve) months advance notice so that the latter may order his bulk requirement of spares, if he so desires. The same provision will also be applicable to subcontractors. Also, the Contractor / Sub-Contractors will provide the Purchaser full manufacturing drawings, material specifications and technical information required by the Purchaser for the purpose of manufacture of such items for his own use or to procure such spares from alternate source.

g. Further in case of discontinuance of supply of spares by the Contractor or his Sub-Contractors, the Contractor will provide the Purchaser with full information for replacement of such spares with other equivalent make's if so required by the Purchaser.

h. The quality plan and the inspection requirement finalized for the main equipments will also be applicable for corresponding spares.

i. All spares covered under the Contract shall be produced and delivery of the spares will be effected along with the main equipments in a phased manner and the delivery would be completed by the respective dates for various categories of goods as per the agreed schedule.

12.0 Contract Performance Bank Guarantee (CPBG):

Within 30(thirty) days from the date of issue of purchase order, the supplier shall furnish bank guarantee from a scheduled nationalized bank for an amount equal to the 10% (ten percent) of the contract value towards faithful performance of the contract.

12.1 The Performance Guarantee shall cover additionally the following guarantees to the Purchaser:

i) The Contractor shall, on receipt of written instruction from the Purchaser, at his own cost, get the validity period of Bank Guarantee furnished by him, extended from time to time as per the instructions of the Purchaser and shall furnish the extended / revised Bank Guarantee or any extension thereof. In case the extended / revised Bank Guarantee is not received by the Purchaser within the specified period, the Purchaser, entirely at his discretion, shall be at liberty to encash the aforesaid Bank Guarantee.

ii) The successful and satisfactory operation of the equipment furnished and erected under the Contract as per the specifications and documents.

iii) That the equipment provided and installed by him shall be free from all defects in design, material and workmanship and shall, upon written notice from the Purchaser, fully remedy free of expenses to the Purchaser such defects as developed under the normal use of the said equipment within the period of guarantee, specified in this Volume.

iv) The Performance Guarantee will be returned to the Contractor without any interest at the end of the 90 (ninety) days after the Warranty Period, subject to fulfilment of the work in all respects.

v) It is expressly understood and agreed that the amount of Performance Guarantee shall not be construed as limiting factor / amount for various liabilities under the Contract.

13.0 Rejection of defective materials and equipments:

13.1 If, during the progress of works, the Engineer-in-charge shall decide and inform in writing to the Contractor that the Contractor has manufactured any plant or part of the plant unsound or imperfect or has furnished any plant inferior to the quality specified, the Contractor, on receiving details of such defects or deficiencies shall, at his own expense, within 15 (fifteen) days of receiving notice or otherwise, and for a period of time as may be decided by the Engineer-in-charge for making it good, proceed to alter, reconstruct or remove such work and furnish fresh equipment up to the standard of specifications. In case the Contractor fails to do so, the Engineer-in-charge may, on giving the Contractor minimum 7 (seven) days notice in writing of his intentions to do so, proceed to remove the portion of the work so complained of and at the cost of the Contractor, perform all such work or furnish all such equipment, provided that nothing in this Clause shall be deemed to deprive the Purchaser of or affect any rights under the Contract which the Purchaser may otherwise have in respect of such defects and deficiencies.

13.2 In case of such replacement / rectification by the Purchaser, the Contractor shall be liable to pay to the Purchaser the extra cost, if any, for such replacement / by delivery and / or erected, as provided for in the original Contract, such extra cost being the ascertained difference between the price by the Purchaser under the provision above mentioned, for such replacement and the Contract price for the plant so replaced. If the Purchaser does not so replace the rejected plant within a reasonable time, the Contractor shall be liable only to repay to the Purchaser all money paid by the Purchaser to him in respect of such plant.

13.3 In the event of such rejection, the Purchaser shall be entitled to the use of the plant in responsible and proper manner till a time reasonably sufficient to enable him to obtain other replacement plant.

14.0 Packing, Forwarding and Shipment:

14.1 The Contractor shall be responsible for securely protecting and packing the plant and equipment, taking special care for protruding parts and such other vulnerable parts as per prescribed standards enforced to withstand the journey and ensuring the safety of materials and also arrival of materials at destination in good and original condition for contemplated use, so as to avoid damage under normal conditions of transport, loading & unloading, handling and storage at site till the time of erection and such conditions as specified in the Contract. While packing all the materials, the limitation from the point of view of availability of Railway Wagons Sizes in India should be taken account of. The Contractor shall be responsible for any loss or damage during transportation, handling and storage due to improper packing. The Purchaser shall bear no responsibility for the availability of Railway wagons and for any loss or damage during transportation, loading & unloading, handling and storage.

14.2 Each bundle or package shall have the following marking on it:

a. The name and address of the consignee.
b. Destination Railway station / Destination place by road
c. The relevant marks, reference numbers etc., for identification.
d. Directions for handling the materials

Each package shall also be accompanied with detailed packing list to facilitate checking of the contents at the destination.

14.3 The Contractor shall notify the Purchaser the date of each despatch from his works, and expected date of arrival at the Project site for the information of the Purchaser

14.4 The Contractor shall also give all despatch information concerning the weight, size and content of each package, including any other information which the Purchaser may require.

14.5 The following documents shall be sent by mailed through COURIER Post to the Purchaser within 3 (three) days from the date of despatch to enable the Purchaser to make progressive payment to the Contractor:

a. Application for payment in standard format to the Purchaser (6 copies)
b. Test Certificate (6 copies)
c. Certificate of waival, if inspection is waived (6 copies)
d. Invoice (6 copies)
e. Certificate of Insurance (6 copies)
f. Proof of despatch (6 copies)

The above documents each in duplicate will be mailed through COURIER to each of the following address:

1. **The Head of Project,**
   Assam Gas Based Power Plant,
   North Eastern Electric Power Corporation Limited
   No. 3 Bokuloni Village, Dist. Dibrugarh, Assam – 1 (one) Copy.
2. **The Sr. Manager (Finance),**
   Assam Gas Based Power Plant,
   North Eastern Electric Power Corporation Limited
   No. 3 Bokuloni Village, Dist. Dibrugarh, Assam – 1 (one) Copy
3. **The Sr. Manager (E/M), MMW,**
   Assam Gas Based Power Plant,
   North Eastern Electric Power Corporation Limited
   No. 3 Bokuloni Village, Dist. Dibrugarh, Assam – 1 (one) Copy

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14.6 The Contractor shall prepare detailed packing list of all packages and containers, bundles and loose materials forming each and every consignment despatched to site. The Contractor shall further be responsible for making all necessary arrangements for loading, unloading and other handling, right from his works till the consignment reaches the site and also till the equipment is erected, tested and commissioned. He shall be solely responsible for proper storage and safe custody of all equipment.

14.7 The Contractor shall send at least 10 (ten) copies of 'Model packing list'/FGMA (Part Group Manufacturing Agency) of various equipment/materials within 15(fifteen) days of finalization of the PERT network. These lists will be used as Check Lists for the despatch of all the equipment and materials to be supplied under the Contract. These lists shall be periodically updated by the Contractor, based on changes on subsequent detailed Engineering.

14.8 All demurrage, wharf age and other expenses incurred due to delayed clearance of the material and which are attributable to the Contractor and Sub-Contractor during transportation shall be to the account of the Contractor.

15.0 Inspection and Testing:

The Contractor shall give the Engineer-in-Charge / Inspector 15 (fifteen) days written notice of any material being ready for testing. The Engineer-in-Charge / Inspector, unless the inspection of the tests is in writing waived, shall attend such tests within 15 (fifteen) days of the date of which the equipment is notified by the Contractor as being ready for test / inspection, failing which the Contractor may proceed with the tests which shall be deemed to have been made in the Inspector's presence and he shall forthwith forward to the Engineer-in-charge duly certified copies of test results in quadruplicate, for approval of the Engineer-in-charge. However, waival accorded by the Engineer will not absolve the Contractor towards the execution of the Contract in conformity with the Contract Agreement.

16.0 Deduction of Contract Price:

16.1 All costs, claims, damages or expenses which the Purchaser may have paid for which the Contractor is liable under the Contract, shall have to be refunded by the Contractor within 30 (thirty) days of receipt of the bills. If the bills are not paid within the said period, this may be deducted by the Engineer-in-charge from the Performance Guarantee or from any money due or which will become due to the Contractor under this Contract.

16.2 In addition to the provision of Clause no. 17.1 above, which relates to the recovery by the Purchaser of any amounts that the Purchaser may have paid for which the Contractor is liable under the Contract, the Purchaser shall also be entitled to recover all dues in terms of the Contract including, but not limited to, Liquidated Damages for delay etc. by way of deductions from the payments due to the Contractor or that may become due to the Contractor in future or from any securities/guarantees under the Contract and/or otherwise

16.3 In case of any dispute, the sum of money so withheld or obtained under this clause by the Purchaser will be kept withheld or retained as such by the Purchaser till all the claims arising out of the Contract is either mutually settled or determined by the Arbitrator, or by the competent Court, as the case may be, and that the Contractor shall have no claim for interest or damages whatsoever on this account.

17.0 Delivery of Plant / Equipment:

17.1 No plant/equipment/material shall be dispatched, until dispatch instruction is given by the Head of Project/ Engineer-In-Charge in writing to the Contractor.

17.2 The Contractor shall deliver the plant/equipments/materials at the place (s) and in the manner as specified in the Contract. The Contractor shall comply with all instructions that may be given by the Purchaser from time to time regarding transportation of the plant/equipment/materials.

17.3 Immediately after dispatch, delivery notification of delivery or dispatch in regard to each and every consignment shall be made to the designated consignee and any other personnel as may be specified in the Contract.

17.4 In case of any damage or loss occurred in transit, it should be the liability of the Contractor to initiate or pursue the claim with the Insurance Company. The contractor shall also take

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immediate steps to repair the damages or to replace the loss and damages as per the instruction of the Engineer-in-Charge.

17.5 Property or title of the plant/equipment/goods shall not pass to the Purchaser unless these are actually delivered at the designated places.

17.6 The Purchaser shall not be responsible to the Contractor to secure/arrange/provide means of transport. However, if any documentary assistance is necessary to facilitate transportation, these will be supplied to the contractor to the extent possible.

18.0 Cross – Fall Breach Liability

Based on your offer, the purchaser has also decided to award the work order for Transportation and delivery to site, Unloading and handling at site, insurance from source of supply till commissioning and handing over, associated civil works, erection, testing and commissioning, successful performance testing, handing over of entire facilities in Renovation and Modernization of Gas Booster Station of Assam Gas Based Power Plant (291 MW), Assam , India. (referred to as Contract No. 2). The Contractor agrees and confirms that all the terms and conditions applicable in purchase/supply order (referred to as Contract No 1) shall also be applicable in Contract No. 2 and vice versa and it is expressly understood and agreed to by the bidder that any breach in the Contract No. 1 shall automatically be deemed to be a breach in the Contract No. 2 and vice versa. Any breach or occurrence giving the Corporation the right to terminate the Contract No. 1 and / or recover damages there under shall also give the Corporation the right, at its sole discretion, to terminate the Contract No. 2 and / or to recover damages and / or to get the work done under the Contract No. 2 from alternative sources at the risk, cost and responsibility of the Contractor, but without any right to the Contractor for any compensation, whatsoever. Any such breach in the Contract No. 1 shall not relieve / discharge the Contractor in any manner, whatsoever, from any of the Contractor's obligations under the Contract No. 2, unless permitted in writing by the Corporation. It is also agreed by the Contractor that plant / machinery / equipment supplied under the Contract No. 1, when erected and commissioned under the Contract No.2 shall give satisfactory performance in accordance with the terms and conditions of both Contract No. 1 & 2.

All other terms and conditions of this contract shall be governed by the terms and conditions of our earlier order for R&M of Gas Engine and its Auxiliaries for GBS Unit 1,2 and 3 vide our Order ref: NEEPCO/ED(C&P)/AGBP/R&M/484 dtd 10.06.2013 and contract agreement thereof.

19.0 Governing Laws / Arbitration:

19.1 M/s Clarke Energy Pvt. Ltd. and NEEPCO shall make all reasonable efforts to amicably resolve any dispute arising out of this contract.

19.2 Arbitration if any shall be as per the Indian Arbitration and Reconciliation Act 1996. Each party shall appoint one arbitrator. The two appointed arbitrator shall then select the third arbitrator.

19.3 Place of arbitration shall be Guwahati / Delhi.

Kindly acknowledge the receipt of this supply order and confirm your acceptance of this order.

Thanking you,

Yours faithfully,

24/01/19

Sr. Manager (E/M)
for & on behalf GM (E/M)
& Head of Project, AGBP

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Annexure - I

Schedule of Prices

Sl. No.	Description	Amount in ₹
1	Price of materials as details in enclosed Annexure - II (Schedule of Items) and Annexure - III (Details of Mandatory Spares) inclusive of GST	17,41,09,988.00
2	Inland transportation & inland insurance (Lumpsum inclusive of all taxes & duties)	64,98,227.00

Total = ₹ 18,06,08,215.00

(Rupees Eighteen Crores Six Lakhs Eight Thousand Two Hundred Fifteen) only

D. GOSWAMI, Sr. Mgr (E/M)
O/o The HOP

Annexure - II

Schedule of Items

Sl. No.	Items	Quantity
1	Gas Engine 12 V 275 GL+, with mandatory spares as per list enclosed at Annexure - III	1 No.
2	Metallic disc coupling for connection to existing Gas Compressor	1 No.
3	Air Cooled Heat Exchangers (ACHE) with Expansion Tank, Louvers, Auto Control Louvers, other Electrical items, Vibration Switch, JB, etc.	1 No.
4	Exhaust Silencer for Gas Engine	2 Nos.
5	Bellows for Exhaust and Water Pipelines	1 lot
6	MCC Panel, Breaker (Drawout type) with other instrument / cables / Power Cables etc. to complete the system	1 lot
7	First fill Lube Oil, Lubricants, Coolants, Consumables	1 lot
8	Various Pipings, fittings, valves, gauges, strainers, support structures, expansion tank, insulation materials with cladding and miscellaneous items, consumables, Nozzles etc.	1 lot
9	Necessary C&I materials (Cables, Gauges, Field Instruments etc.) required for the Unit and integration with LCP & Master Control panel with necessary instrumentation & control etc. and MCC panel Extra Items: a) Moisture separator, Air Filter, Air Pressure Regulator for Auto Louver arrangement of ACHE. b) RTD Transmitters Thermowells, Level Controller for Expansion Tank in ACHE. c) Vibration Transducer for Engine. d) Epoxy for Grouting. e) Shims for Engine. f) Hardware for Engine foundation.	1 lot
10	Cabling for power cable, control & instrumentation cable, cable tray, earthing strips, Gland and miscellaneous items	1 lot

24/01/19
O. GOSWAMI, Sr. Mgr (E/M)
O/o The HOP

Annexure - III

Details of Mandatory Spares

Sl. No.	GEW P/n	Description	Qty.	Remarks
1	209364	ELEMENT,AIR FILTER	12	
2	209365	PAD, PRE-FILTER	12	
3	211665D	KIT, ADMISSION VALVE REPAIR	24	
4	292679	O RING,.94X1.19X.12,NITRILE	48	
5	292843	O RING,1.73X.21,NITRILE	12	
6	296178	O RING,SILICONE	24	
7	740011	BOOT,HIGH TEMP (.5 ID)	24	
8	69919D	SPARK PLUG, WAUKESHA	24	
9	199395B	FILTER, LUBE OIL	12	
10	325197A	SEALS KIT, FM600	2	
11	325195A	PAPER INSERT, FM500	1	
12	291077	GASKET	2	
13	294093L	GASKET, SPIRAL WOUND 3.38 I.D. X 3.75 O.D. .12 THK	4	
14	294093V	GASKET, SPIRAL WOUND 4.25 I.D. X 4.62 O.D. .12 THK	6	
15	209992K	O RING, 1.88X2.12X.12 VTR8650	12	
16	211670C	SEAL RING,SQUARE 1.88X2.38X.25	12	
	295557A	TUBE,DRAIN TURBO	12	Item p/n is 'No Longer Available' (NLA)
17	295828	WASHER,PRE-CHAMBER	12	
18	295389C	O RING, 2.12X2.38X.12, VTR8650	24	
19	295388A	O RING,2.25X2.50X.12,VITON	24	
20	295828C	WASHER,IGNITER SLEEVE	12	
21	A740127	ASSEMBLY, NOx SENSOR	2	
22	21051	WASHER,LOCK, 312 & M8	8	
23	296254A	GASKET,INTERCOOLER PLENUM	2	
24	325320	O RING - V12	2	
25	207559J	GASKET, PIPE FLANGE 4 IN	1	
26	207559H	GASKET, PIPE FLANGE 5 IN	2	
27	296614	GASKET, THERMOSTAT HOUSING	1	
28	496832	SEAL, ELEMENT	6	
29	296252	GASKET,PLENUM OUTLET	1	
30	296244C	GASKET, INTERCOOLER/TURBO	4	
31	291823	WASHER,COPPER,35X27X2	1	NOX sensor assembly gasket offered in place of oxygen sensor
32	290807	GASKET	1	

24/01/19
D. GOSWAMI, Sr. Mgr.(E&M)
O/o The HOP

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कार्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बकुलनि, जिला-डिब्रुगढ़, आसाम, पिन - ७८६ १९१

North Eastern Electric Power Corporation Ltd.
(A Govt. of India Enterprise)
ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 191
E-mail : agbpngas@sancharnet.in

ISO-9001:2008
ISO-14001:2004
OHSAS-18001:1999

No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/642

Dated 24.01.2019

To,

M/S Clarke Energy India Private Limited
Shivkiran, Plot No. 160, Lane No. 4, CTS No. 632
Dahanukar Colony, Kothurd, Pune, Maharashtra
India – 411 038

Kind Attn. Mr Punit Garg, Managing Director

Sub: NEEPCO: Assam Gas Based Power Plant – Detail Work Order for Renovation & Modernization of Winkesha make Gas Engine and its Auxiliaries (GBS Unit 4) at AGBP

Ref:
1. Our enquiry ref: NEEPCO/AGBP/SFC/GBS-25(R&M)/2018-19/422 Dated 07/09/2018
2. Our enquiry ref: NEEPCO/AGBP/SFC/GBS-25(R&M)/2018-19/359 Dated 14/09/2018
3. Your Techno Commercial offer ref: WT/CEI-18/S-Quote-S-1165/R01/164 Dated 05/10/2018.
4. Our letter No. NEEPCO/AGBP/SFC/GBS-25(R&M)/2018-19/418 Dated 15/10/2018
5. Your letter ref: VVT/CEI-18/S-Quote-S-1165/R01/218 Dated 31/0/2018
6. Our letter No. NEEPCO/AGBP/SFC/GBS-25(R&M)/2018-19/489 Dated 16/11/2018
7. Your letter ref: VVT/CEI-18/S-Quote-S-1165/R01/223 Dated 23/11/2018
8. MOM held at AGBP, NEEPCO Dated 12/12/2018
9. Your E-mail Dated 24/12/2018
10. MOM held at HQ., NEEPCO, Shillong Dated 27/12/2018
11. Our LOI ref: NEEPCO/AGBP/HOP/2018-19/W-10(A)/577 Dated 31/12/2018
12. Your E-mail Dated 02/01/2019
13. Our letter No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/590 Dated 04/01/2019
14. Your acceptance of LOI vide Ref: SM/CEI-2019/224 dtd 4th January, 2019

Dear Sirs,

With reference to above, the North Eastern Electric Power Corporation Ltd is pleased to place this detail work order for Unloading and handling at site, insurance from source of supply till commissioning and handing over, associated civil works, Erection, Testing and Commissioning, successful performance testing, handing over of entire facilities and Supervision of Operation and Maintenance of the unit for specified period as per the bid document complete in all respect for Renovation and Modernization of Gas Booster Station of Assam Gas Based Power Plant (291 MW), Assam, India as per Schedule of Requirement for services at ANNEXURE-II and terms and conditions mentioned below. This contract shall also cover all activities other than those in the scope of supply against our order ref: NEEPCO/AGBP/HOP/2018-19/W-10(A)/635 dtd 24.01.2019. The scope of work shall also include all items which are required for satisfactory performance of the work as per requirement of bid documents even though not specifically mentioned in the Detailed Work Order.

1.0 Contract Price:

1.1 The total Contract Price for this Contract for the entire scope of services shall be Rs. 2,03,37,715.00 (Rupees Two Crores Three Lakhs Thirty-Seven Thousand Seven Hundred Thirty-Five) only as per Schedule of Prices at Annexure-I including all applicable taxes and duties (GST).

1.2 The Contract Price shall remain FIRM during the entire period of the Contract and no escalation shall be allowed on the same.

Regd. Office : Brookland Compound, Lower New Colony, Shillong - 793 003
(0364) 2224487 / 2226463 FAX : 2226417

2.0 Completion Schedule:

Time is the essence of the contract. Transportation and delivery to site, Unloading and handling at site, insurance from source of supply till commissioning and handing over, associated civil works, erection, testing and commissioning, successful performance testing, handing over of entire facilities complete in all respect along with the supply of materials under Contract No. 1 shall be completed within 12 (twelve) months from the date of techno-commercially clear Purchase and Work Order. The work shall be completed within such time as per the approved project schedule. The Contractor shall so organize his resources and perform his work as to complete it not later than the date agreed to. The time for completion of his works Contracted for shall be reckoned from the date of issue of the Purchase and Work Order by the Purchaser.

3.0 Terms of Payment:

(a) For Erection, Testing & Commissioning:

(i) 10% (Ten percent) of the Contract Price for Erection, Testing and Commissioning shall be paid as interest bearing recoverable Mobilization Advance at the rate of 1.5% (one and half percent) above BPLR of State Bank of India, against submission of Bank Guarantee equivalent to 110% of total advance amount, as per proforma enclosed. The advance shall be paid in 2(two) instalments: the first instalment of 5% (five percent) shall be paid for site mobilization and site Office establishment on handing over of site by the Corporation. The remaining 5% (five percent) of the Contract Price for Erection, Testing and Commissioning shall be released in such instalments as may be considered commensurate with the progress of the initial mobilization, preliminary and ancillary works, duly certified and evaluated by the Engineer-in-Charge. For evaluation of initial mobilization, the Contractor shall have to furnish a programme of mobilization period, showing details of work to be done, machinery and labour to be engaged to start the work as per schedule. The programme shall form part of the Contract Agreement.

(ii) If the Contractor fails to mobilize the work within stipulated period as per approved schedule, the Corporation reserves the right to encash the Bank Guarantee submitted towards interest bearing advance.

Date of Recovery	Amount of Recovery
Last day of the 2nd quarter of the schedule time of completion	50% of Mob. Advance + eligible accrued interest
Last day of the 3rd quarter of the schedule time of completion	50% of Mob. Advance + eligible accrued interest

(iii) The recovery of Mobilisation Advance along with the accrued interest thereon shall be time based and not linked with the progress of work, which shall commence from the last day of the 2nd quarter of the scheduled time of completion, and shall be effected as follows:

The recovery of mobilization advance shall be made from all interim bills as Running Account Bills and any other interim bills related to works. Mobilization Advance along with accrued interest shall stand fully recovered on the last day of 3rd Quarter of schedule time of completion of the work as specified in the Contract Agreement. At any point of time, even if the Contractor's money on account of work done is not available with the Corporation or if the Contractor is not executing the work or executing it at a slow pace, recovery of Mobilization Advance shall be made by encashing BG of required value submitted against Mobilization Advance. For release of Mobilization Advance, the Contractor is to submit 2 (Two) numbers of Bank Guarantees valued at 110% of each recovery amount matching with the above Recovery Schedule. The Validity Period of Bank Guarantees shall be kept 3 (three) months beyond the scheduled date of recovery as shown in recovery schedule.

(iv) 90% (Ninety percent) of the Contract Price for unloading, storage & handling at site, Erection, Testing and Commissioning including insurance towards storage cum erection, testing and commissioning, reliability & PG test along with 100% GST shall be paid on pro rata basis against progressive Erection of the plant/equipment. Billing Break up for Erection, Testing and Commissioning works shall be finalized before signing of the Contract Agreement and the same shall form a part of the Contract Agreement.

(v) Balance 10% (Ten Percent) of the total Contract Price for Erection, Testing and Commissioning shall be paid after "Final Acceptance" of the entire plant/equipment.

(b) Payment for Supervision of O&M:

The contract price for Supervision of Operation and Maintenance shall be paid in 6 (six) equal monthly instalment. The monthly instalment shall be paid at the end of the particular month on submission of invoice/ bill to the Engineer in Charge.

4.0 Mode of Payment:

All payments due to the Contractor shall be disbursed under e-payment system. The Engineer in Charge or his authorized representatives will verify and certify the Contractor's invoices, indicating payment instructions (full bank details) for disbursement.

The contractor shall have to furnish the following information for receiving payment against the work through e-payment system:

1. Name of beneficiaries:
2. Name of the Bank:
3. Branch of the Bank:
4. IFSC code of the Branch:
5. Account No.:
6. City/Town:
7. Telephone No.:
8. E-mail address:

5.0 Bank Charges:

All bank charges of the Contractor's bank, within or outside India, shall be to Contractor's account.

6.0 Paying Authority:

Paying Authority for payments shall be the Head of Finance, Assam Gas Based Power Plant, No. 3 Bokuloni Village, Dist. Dibrugarh, Assam.

7.0 Withholding Payment:

7.1 The Purchaser may withhold the whole or part of any payment for the work claimed by the Contractor which, in the opinion of the Purchaser, is necessary to protect himself from loss on account of:

a) Defective work not remedied or guarantees not met.
b) Failure by the Contractor to make payments for materials, labour employed by him and their PF dues.
c) Claims filed against the Contractor.
d) Loss to another Contractor directly employed by the Purchaser.
e) Insufficient progress.
f) Damage or loss to property or equipment of the Purchaser.
g) Non-return of equipment/material supplied by the Purchaser when the same is due; and
h) If legal case is instituted by the local Government for default of the Contractor.

7.2 When the grounds for withholding payment are removed, payments of the amount due to the Contractor shall be made by the Purchaser without delay.

8.0 Guarantee / Warranty:

a. For a period of 12 (Twelve) calendar months from the date of the first commercial operation of the last unit or 24(Twenty-Four) calendar months from the date of last supply, whichever is earlier (called the Warranty Period), the Contractor shall remain liable to replace any defect and/or rectify any damage/deficiency that may develop or remained undetected in the equipment/works of his own or those of his sub-Contractors. Such defects and / or damage shall be repaired or replaced as per the decision of the Engineer-In-charge and solely at the cost of the Contractor. The replaced defective parts will be returned to the Contractor at his own expense, unless otherwise arranged. No repairs or replacement shall normally be carried out by the Engineer-in-charge when the equipment is under the erection / supervision of the Contractor's engineers. If, during the period of warranty, any portion of the equipment/works is found defective and is rectified/replaced, the provision of this clause shall apply to the portion of the equipment so replaced/rectified until expiry of 12 (Twelve) calendar months from the date of such replacement / rectification. The rectification / replacement / repairs shall be done at the shortest possible time to minimize the loss of the Purchaser and as mutually agreed to. If any defects are not remedied within a reasonable period of time, the Purchaser may proceed to do the work through any other Agency at the Contractor's risk and expenses, but without prejudice to any other rights which the Purchaser may have against the Contractor.

b. In the event of emergency where, in the judgment of the Engineer-in-charge, delay would cause serious loss or damage, repairs, replacement, rectification, adjustment etc. may be done by the Engineer-in-charge or by any other Agency chosen by the Engineer-in-charge at the cost of the Contractor and without any advance notice to the Contractor. However, the Contractor will be notified promptly and he shall assist the Purchaser/other Agency employed for necessary corrections. This shall not relieve the Contractor from any of his liability under the terms of the Contract. In case of defective parts which are not repairable at site but are essential for the commercial operation of the equipment, the Contractor and the Engineer-in-charge shall mutually agree to a programme of replacement or renewal, which will minimize interruption to the maximum extent, in the operation of the equipment.

c. The repair or new parts will be furnished and erected free of cost by the Contractor. If any repair is carried out on his behalf at the site, the Contractor shall bear the cost of such repair/replacement.

d. In respect of goods supplied and or works done by the Sub-Contractors to the Contractor where a longer guarantee is provided by such sub-Contractors, the Purchaser shall be entitled to the benefit of such longer guarantee period.

e. In case of defective parts which are not repairable at site but are essential for the operation of the equipment, the Contractor and the Engineer-in-charge shall mutually agree to an improvised arrangement to be made by the Contractor to ensure continued plant operation and to a programme of replacement or renewal which will minimize interruption/dislocation to the maximum extent in the operation of the equipment. The cost of transportation, including all taxes & duties etc. as applicable, Insurance of defective parts from site and replacement will be borne by the Contractor.

f. The above mentioned Clauses shall also be applicable to spares purchased before or after the completion of the Contract.

g. The provision of latent defects shall be applicable up to the end of 6 (six) years from the date of successful completion of trial operation of each unit.

h. It shall be expressly understood that all expenses in respect of replacement / repair during the warranty period or extended warranty period or as latent defects as noted above including, but not limited to, transportation cost, all taxes, duties and levies as applicable, etc. till such spare parts are installed in the main equipment/ plant after necessary repairs/ replacement and the main equipment/ plant is put back into operation, shall entirely be to the Contractor's account.

9.0 Liquidated Damage for delay in completion:

Time is the essence of the Contract. If the performance of the Contract is delayed beyond the time schedules incorporated in the Contract, due to reasons attributable to the Contractor, the Purchaser shall, without prejudice to his right, recover the following damages for breach of the Contract: -

A. For delay in commissioning of the units beyond the scheduled dates of the contract, deduct 1/2 % (half percent) of the Total Contract Price of First Contract and Second Contract per week or part thereof of delay, subject to a maximum of 10% (Ten Percent) of the Total Contract Price of First Contract and Second Contract.

B. Execute or authorize the execution of the work departmentally or through any other Agency without any notice to the Contractor at the risk and cost of the Contractor. Action against this sub-clause shall be taken after giving notice of 15(Fifteen) days by the Purchaser to the Contractor for any delay in performance of the Contract. The decision of the Purchaser in this regard shall be final and binding upon the Contractor. However, the above action shall be taken without cancelling the Contract in respect of work not yet due for execution, or

C. Cancel the entire Contract or a portion thereof and, if so desired, execute or authorize the execution of the work departmentally or through any other agency at the risk and cost of the Contractor. If the Contractor had defaulted in the performance of the Contract, the Purchaser may ignore the rates quoted by him for respective work even though the lowest for executing through other agency.

D. Where action is taken under Sub-Clause B or Sub-Clause C above for failure to complete the work, the Contractor shall be liable for any loss, which the Purchaser may sustain on that account. However, the Contractor shall not be entitled to any gain on such execution and the manner and method of such execution shall be at the entire discretion of the Corporation. It shall not be necessary for the purchaser to serve a notice of such execution on the Contractor.

10.0 Force Majeure:

10.1 If either Contractor or Purchaser (hereafter called as party) is temporarily unable by reason of Force Majeure or the laws or regulations of India to meet any of its obligations under this Agreement and if such party gives to the other party written notice of the event within 14 (fourteen) days after its occurrence, such obligations of the party as it is unable to perform by reason of the event shall be suspended for as long as the Force Majeure condition continues.

10.2 The Purchaser or his authorized representative, on receipt of notification, shall ascertain the facts and extent of the delays and suitably extend the time for completing the work or stage of work where, in his judgment the findings of facts justify an extension. The period of extension of time shall be determined by the Purchaser or his authorized representative after taking into consideration the nature of the work delayed and practicability of its execution during the period of extension.

10.3 Although the time for completion of works shall be suitably extended as indicated in Clause no. 10.2 above, such extension shall not result in any other financial claim of the Contractor against the Purchaser on any account, whatsoever.

10.4 Neither party shall be liable to the other party for loss or damage sustained by the other party arising from any event referred to in clause or delays arising from such event.

10.5 If, by virtue of clause referred above, either party shall be exempted from the performance of punctual performance of any obligation for continuous period of 6(six) months, then the parties shall consult

together with a view to agreeing what action should, in the circumstances, be taken and what amendments to the terms of this Agreement ought to be made.

10.6 The term "Force Majeure" shall, herein, mean riots (other than among the Contractor's employees), Civil commotion (to the extent not insurable), war (whether declared or not), invasion, act of foreign enemies, hostilities, civil war, rebellion, revolution, insurrection, military or usurped power, damage from aircraft, nuclear fission, acts of God, such as floods, earthquake, lightning, fires not caused by Contractor's negligence and other such cause over which the Contractor has no control and are accepted as such, by the Engineer-in-Charge, whose decision shall be final and binding. In the event of either party being rendered unable by "Force Majeure" to perform any obligation required to be performed by them under the Contract, the relative obligation of the party effected by such "Force Majeure" shall be treated as suspended for the period during which such "Force Majeure" cause lasts, provided the party alleging that it has been rendered unable, as aforesaid, thereby shall notify within 10(ten) days of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of such cause.

11.0 **Rejection of Defective Plant:**

11.1 If, during the progress of works, the Engineer-in-charge shall decide and inform in writing to the Contractor that the Contractor has manufactured any plant or part of the plant unsound or imperfect or has furnished any plant inferior to the quality specified, the Contractor, on receiving details of such defects or deficiencies shall, at his own expense, within 15 (fifteen) days of receiving notice or otherwise, and for a period of time as may be decided by the Engineer-in-charge for making it good, proceed to alter, reconstruct or remove such work and furnish fresh equipment up to the standard of specifications. In case the Contractor fails to do so, the Engineer-in-charge may, on giving the Contractor minimum 7 (seven) days notice in writing of his intentions to do so, proceed to remove the portion of the work so complained of and at the cost of the Contractor, perform all such work or furnish all such equipment, provided that nothing in this Clause shall be deemed to deprive the Purchaser of or affect any rights under the Contract which the Purchaser may otherwise have in respect of such defects and deficiencies.

11.2 In case of such replacement / rectification by the Purchaser, the Contractor shall be liable to pay to the Purchaser the extra cost, if any, for such replacement / by delivery and / or erected, as provided for in the original Contract, such extra cost being the ascertained difference between the price by the Purchaser under the provision above mentioned, for such replacement and the Contract price for the plant so replaced. If the Purchaser does not so replace the rejected plant within a reasonable time, the Contractor shall be liable only to repay to the Purchaser all money paid by the Purchaser to him in respect of such plant.

11.3 In the event of such rejection, the Purchaser shall be entitled to the use of the plant in responsible and proper manner till a time reasonably sufficient to enable him to obtain other replacement plant.

12.0 **DEDUCTION FROM CONTRACT PRICE:**

12.1 All costs, claims, damages or expenses which the Purchaser may have paid for which the Contractor is liable under the Contract, shall have to be refunded by the Contractor within 30 (thirty) days of receipt of the bills. If the bills are not paid within the said period, this may be deducted by the Engineer-in-charge from the Performance Guarantee or from any money due or which will become due to the Contractor under this Contract.

12.2 In addition to the provision of Clause no. 14.1 above, which relates to the recovery by the Purchaser of any amounts that the Purchaser may have paid for which the Contractor is liable under the Contract, the Purchaser shall also be entitled to recover all dues in terms of the Contract including, but not limited to, Liquidated Damages for delay etc. by way of deductions from the payments due to the Contractor or that may become due to the Contractor in future or from any securities/guarantees under the Contract and/or otherwise.

12.3 In case of any dispute, the sum of money so withheld or obtained under this clause by the Purchaser will be kept withheld or retained as such by the Purchaser till all the claims arising out of the Contract is either mutually settled or determined by the Arbitrator, or by the competent Court, as the case may be, and that the Contractor shall have no claim for interest or damages whatsoever on this account.

13.0 **Contract Performance Bank Guarantee (CPBG):**

Within 30(thirty) days from the date of issue of purchase order, the supplier shall furnish bank guarantee from a scheduled nationalized bank for an amount equal to the 10% (ten percent) of the contract value towards faithful performance of the contract.

13.1 The Performance Guarantee shall cover additionally the following guarantees to the Purchaser:
i) The Contractor shall, on receipt of written instruction from the Purchaser, at his own cost, get the validity period of Bank Guarantee furnished by him, extended from time to time as per the instructions of the Purchaser and shall furnish the extended / revised Bank Guarantee or any extension thereof. In case the extended / revised Bank Guarantee is not received by the Purchaser within the specified period, the Purchaser, entirely at his discretion, shall be at liberty to encash the aforesaid Bank Guarantee.
ii) The successful and satisfactory operation of the equipment furnished and erected under the Contract as per the specifications and documents.
iii) That the equipment provided and installed by him shall be free from all defects in design, material and workmanship and shall, upon written notice from the Purchaser, fully remedy free of expenses to the Purchaser such defects as developed under the normal use of the said equipment within the period of guarantee, specified in this Volume.
iv) The Performance Guarantee will be returned to the Contractor without any interest at the end of the 90 (ninety) days after the Warranty Period, subject to fulfilment of the work in all respects.
v) It is expressly understood and agreed that the amount of Performance Guarantee shall not be construed as limiting factor / amount for various liabilities under the Contract

14.0 **Compensation for fuel consumption of gas engine in excess of guaranteed value:**

During engine package performance test, in case the engine package fails to meet the guaranteed values, the compensation shall be claimable by the owner and the same shall be recovered by the owner from any payment due to the supplier. In case such claims are not fully recovered, then supplier will pay the balance amount to the owner. The compensation per package shall be calculated as per Cl. No. 7.01.02, Volume-2, Part-A of bid document and procedure communicated to you vide letter No. NEEPCO/ED (C&P/AGBP/R&M/2047 dated 12/02/2013 and its acceptance vide letter no. VVTCEB-13/155 dated 14/02/2013 during last contract agreement for R&M of GBS Unit 1,2 and 3 at AGBP and that will form part of the Contract Agreement.

The total penalty to be charged for non-conformance of guaranteed parameter on account of fuel consumption shall not exceed 10 % of basic supply cost on FOR basis. No advantage shall be given for higher performance than the guaranteed.

15.0 **Compensation for higher auxiliary consumption in excess of guaranteed value:**

During compressor package performance test, in case the auxiliary consumption fails to meet the guaranteed values, the compensation (calculated as per formula given under here) shall be claimable by the owner and the same shall be recovered by the owner from any payment due to the supplier. In case such claims are not fully recovered, then supplier will pay the balance amount to the owner. The compensation per package shall be the differential cost calculated as follows:

PY (in ') = 2 x (PT-PG) X CP X 7884

Where,

PY = Differential Cost
PT = Auxiliary power consumption in kWh as obtained from field test in kWh.
PG = Guaranteed Auxiliary Power Consumption in KWh
CP = Unit cost of power as ' 3.25/- per kWh.

16.0 **Cross – Fall Breach Liability:**

Based on your offer, the purchaser has also decided for design, manufacture, testing, packing, despatch and insurance and supply of plant, equipment, materials and other components for Renovation and Modernization of Gas Booster Station of Assam Gas Based Power Plant (291 MW), Assam, India, (referred to as Contract No. 1). The Contractor agrees and confirms that all the terms and conditions applicable in Contract No. 2 shall also be applicable in Contract No. 1 and vice versa and it is expressly understood and agreed to by the bidder that any breach in the Contract No. 2 shall automatically be deemed to be a breach in the Contract No. 1 and vice versa. Any breach or occurrence giving the Corporation the right to terminate the Contract No. 2 and / or recover damages there under shall also give the Corporation the right, at its sole discretion, to terminate the Contract No. 1 and / or to recover damages and / or to get the work done under the Contract No. 1 from alternative sources at the risk, cost and responsibility of the Contractor, but without any right to the Contractor for any compensation, whatsoever. Any such breach in the Contract No. 2 shall not relieve / discharge the Contractor in any manner, whatsoever, from any of the Contractor's obligations under the Contract No. 1, unless permitted in writing by the Corporation. It is also agreed by the Contractor that plant / machinery / equipment supplied under the Contract No. 1, when erected and commissioned under the Contract No.2 shall give satisfactory performance in accordance with the terms and conditions of both Contract No. 1 & 2.

All other terms and conditions of this contract No. 2 shall be governed by the Bid Documents and subsequent clarifications / amendments issued thereon.

Kindly acknowledge receipt and confirm unconditional acceptance of this work order at the earliest to facilitate signing of the Contract Agreement.

Thanking you.

Yours faithfully,

24/01/19

Sr. Manager (E/M)
for & on behalf GM (E/M) &
Head of Project, AGBP

Annexure - I

W.O. No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/642 Dated 24/01/2019

Schedule of Prices

Sl. No.	Description	Amount in ₹
1	Unloading, storage, handling at site, erection, testing & commissioning including insurance towards storage cum erection, testing & commissioning including reliability and PG test, Expatriate supervision etc.charges excluding GST. Broad Scope of services for above enclosed at Annexure - II	1,60,47,205.00
2	O & M Supervision charges for 6 (six) months after taking over	11,68,164.00
3	GST on Services	31,02,366.00
	Total =	**₹ 2,03,37,735.00**

(Rupees Two Crores Three Lakhs Thirty Seven Thousand Seven Hundred Thirty Five) only

Annexure - II

W.O. No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/642 Dated 24/01/2019

The Broad Scope of Services is as described below:

- Design, Engineering, Manufacturing, Inspection and Testing at manufacturer's works before Dispatch, Packing and Forwarding, Supply, Transportation to site, Insurance from the source of supply till commissioning, Material handling, Loading and unloading, storage at site, Erection, Testing and commissioning of all the equipment.
- Dismantling of existing Gas Engine and associated axillaries including ACHE etc., without interrupting of running units.
- Providing necessary handling & lifting arrangement with necessary tools & equipment for dismantling & safe storage of the Gas Engine & accessories at designated place.
- Necessary modification of existing civil structure of ACHE, Gas Engines etc. for the purpose of dismantling/replacement of Gas Engine, ACHE etc.
- Successful erection and commissioning of Gas Engines and other accessories etc.
- 72 Hrs. uninterrupted trial operation, reliability test.
- Performance guarantee test after successful completion of trial operation.
- Supervision of operation and maintenance of the unit for a period of 6 (six) months from the date of taking over the unit by posting adequate numbers of Engineers and Technicians.
- Training and Transfer of Technology of NEEPCO's Engineers for safe & reliable operation & maintenance.
- The Gas Engine, ACHE etc. to be installed in the existing skid of Unit # 4 only.
- Any in-situ modification of the skid of Gas Engine, ACHE etc. to be done.
- Leveling, alignment, grouting etc. shall be done for installation of Gas Engine, ACHE, Silencer, etc. and other accessories.
- Providing necessary instrumentation and control system for operation of Engine and compressor package including axillaries, P & ID including Local panel, PLC, HMI system as per Unit # 1, 2 & 3.
- Hooking up with the master control panel.
- Paintings of equipment, piping etc. as per standard procedure.
- Insulation for hot part/ piping etc. provided as per Unit # 1, 2 & 3.
- Proper storing of New Engine and other accessories as per standards.
- Guards and protection for rotating equipment to be provided as per Unit # 1, 2 & 3.
- Platforms and ladders for maintenance of equipment to be provided as per Unit # 1, 2 & 3.
- To furnish all the relevant data, drawings, part catalogue, operation and maintenance manuals of the all equipment, test reports etc.
- To submit as build drawings after completion of the work.
- To submit all electrical drawings, software, program etc.
- To carry out 100% radiography inspection report of all welded joints.

24/1/19

No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/332 Dated 21/09/2018

To,

M/S Dresser-Rand India Private Limited,
A Siemens Business,
701, Ashoka Estate,
24, Barakhamba Road,
New Delhi – 110 001, India

Kind attention: Mr. Sanjib Bhatt, Regional Director, Dresser-Rand India Private Limited

SUB: Detail purchase order for Supply of materials for Renovation & Modernization of Dresser-Rand Gas Compressors, model: 6-HOS 4-2 of Gas Booster Station at Assam Gas Based Power Plant (291MW), Assam.

REF:
1. Our letter No. NEEPCO/AGBP/SFC/GBS-25/2017-18/344 Dated 06/09/2017
2. Your Technical Offer No. QP17IN5591 Rev 01 Dated 15/09/2017
3. Our E-mail dated 16/09/2017
4. Your E-mail Dated 18/09/2017
5. Your firm Techno-commercial offer No. QP17IN5591 Rev 01 Dated 22/09/2017
6. Your E-mail Dated 25/11/2017
7. Our E-mail dated 22/01/2018
8. Your E-mail Dated 23/01/2018
9. Our E-mail dated 12/04/2018
10. Your E-mail Dated 12/04/2018
11. Our E-mail dated 14/05/2018
12. Your E-mail Dated 14/05/2018
13. Our letter No. NEEPCO/ED(O&M)/AGBP-24/2018-19/256 Dated 23/05/2018
14. Your letter Dated Nil
15. Our LOI issued vide No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/135 Dated 30/05/2018
16. Our letter No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/219 Dated 26/06/2018

Dear Sirs,

With reference to above, the Corporation is pleased to place this supply order for design, manufacturing, testing, packing, dispatch and supply of equipments, materials and other components for Renovation & Modernization of Dresser-Rand Gas Compressor, model: 6-HOS 4-2 of Gas Booster Station at Assam Gas Based Power Plant (291MW), Assam as per Schedule of Requirement for supply at ANNEXURE-I and terms and conditions mentioned below:

1.0 Contract Price:

1.1 The contract Price for the entire scope of supply shall be ₹ 6,10,46,666.00 (Rupees Six Crore Ten Lakh Forty-Six Thousand Six Hundred Sixty-six) only.
1.2 The above contract price for the supply of materials is ex-works, Naroda & Ahmadabad, India.
1.3 All the Taxes and Duties shall be paid extra as applicable on the date of delivery on submission of documentary evidences.
1.4 The schedule of Prices against the contract is enclosed at ANNEXURE-II.
1.5 The contract price shall remain FIRM during the entire period of the Contract and no escalation shall be allowed on the same.
1.6 Freight & Octroi (if applicable) shall be paid extra at actual against submission of documentary evidences.
1.7 Packing and forwarding charges shall be paid extra @ 0.5% on the basic value.

1.8 EIC sale, if applicable, shall be resorted by the supplier.

2.0 Completion Schedule / Delivery of materials:

2.1 The delivery schedule of the materials shall be completed within 8 (Eight) months from date of receipt of purchase order.

2.2 There will be no holds for inspection.

2.3 No plant / equipment / materials shall be dispatched, until dispatch instruction is given by the Engineer-in-charge in writing to the contractor.

2.4 Immediately after dispatch, the detailed information of dispatch or delivery in regards of each and every consignment shall be made to the consignee and Engineer-in-charge.

2.5 Any road permit required for dispatch of materials shall be issued to the contractor. Request letter for road permits shall be addressed to Engineer-in-charge with details of materials and value of the consignment. The value of all the road permits shall not be exceeded the basic contract value for the supply of materials.

3.0 Terms of Payment:

3.1 10% (Ten Percent) Advance payment against submission of Master Document list and submission of equivalent bank guarantee

3.2 10% (Ten Percent) progressive payment against submission of compressor data sheets and submission of equivalent bank guarantee.

3.3 30% (Thirty Percent) progressive payment against submission of un-priced purchase order for major brought out items submission of equivalent Bank Guarantee.

3.4 50% (Fifty Percent) progressive payment along-with full taxes and duties on production of dispatch documents and submission of following documents to the consignee:

a. Proof of dispatch (bill of lading / LR copy / railway receipt etc.)
b. Detailed Invoices in triplicate.
c. Detailed packing list.
d. Test certificates, if any.
e. Documentary evidences against payment of Taxes and Duties.

3.5 All the bank Guarantees submitted against the progressive payments shall be valid for 21 (twenty-one) months from the date of LOI and will be released by NEEPCO only after completion of the last supplies, i.e., receipt at site.

3.6 Additionally, the contractor will submit individual Performance Bank Guarantees of 10% (Ten Percent) of basic material value. The said Bank Guarantee's will be valid for till the completion of the contract. The Bank Guarantee shall contain a suitable clause indicating a claim period of 3 (Three) months from the date of expiry.

3.7 All BG shall be submitted to EIC and payment shall be made after acceptance of the BG.

3.8 The format of the BG is enclosed at ANNEXURE-III.

4.0 Mode of Payment:

All payments due to the contractor shall be disbursed through e-payment system. The Engineer-in-charge (EIC) or his authorized representatives will verify and certify the Contractor's invoices. The contractor shall have to furnish the information (Bank details) as per Annexure- IV.

5.0 Bank Charges:

All bank charges shall be to the contractor's account.

6.0 Paying Authority:

Paying Authority for payments shall be Head of Finance, Assam Gas Based Power Plant, Bokuloni, Dist. Dibrugarh, Assam, PIN: 786191.

7.0 Withholding Payment:

7.1 The Purchaser may withhold the whole or part of any payment for the supply claimed by the contractor which, in the opinion of the Purchaser, is necessary to protect himself from loss on account of:

a. Defective materials supplied or not fit for the revamping works,
b. Failure by the contractor to make payments for materials, labour employed by him and their PF dues.

c. Insufficient progress of Revamping works,
d. Damage or loss of property or equipment of the purchaser,
e. Non-return of equipments / materials supplied by the purchaser when the same is due.

7.2 When the grounds for withholding payment are removed, payments of the amount due to the contractor shall be made by the purchaser without delay.

8.0 Liquidated damage for delay in supply and completion of the works:

8.1 Time is the essence and LD is the sole remedy.

8.2 In case the supplier fails to deliver the materials within contractual delivery period (or any extension thereof) due to reasons attributable to the supplier, then the Corporation reserve the right to recover from the supplier's sum towards Liquidated Damage @ ½ % (half percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the schedule delivery date (or extension thereof). The total recovery from the supplier on account of this shall, however, not exceed 5 % (five percent) of the value of the undelivered portion of supply. However, the Liquidated Damage will not be imposed if the supplier fails to deliver the materials within the scheduled delivery period due to Force Majeure conditions, which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, floods, explosion or fire not caused by the supplier's negligence, lightning, acts of God or the public enemy which is of such a nature as to delay, curtail or prevent timely action by either party.

9.0 Force Majeure:

In case of any force majeure conditions arising out of the acts of God, acts of public enemy, war, insurrections, riots, epidemics, landslides, acts of terrorism, and any other similar events beyond the control of the contractor or purchaser, and which by exercise of due diligence neither contractor or purchaser is able to overcome, the delivery period shall be extended without imposition of any penalty. If force majeure conditions persist beyond 90 (ninety) days. NEEPCO and Dresser-Rand shall jointly decide on further course of action.

10.0 Guarantee / Warranty:

Guarantee / warranty of the materials supplied shall be for a period 18 (Eighteen) months from the date of shipment or 12 (Twelve) months from the date of start-up, whichever is earlier. The contractor shall remain liable to replace any defect and / or rectify any damage / deficiency that may develop or detected during Warranty period. Such defects and /or damage shall be repaired or replaced as per decision of the Engineer-in-charge and solely at the cost of the contractor. The replaced defective parts will be returned to the contractor at his own expenses.

11.0 Insurance:

Transit insurance shall be covered under NEEPCO's open marine policy. The details of consignment with value shall be intimated to Engineer-in-charge prior to dispatch of materials for arrangement of necessary transit insurance.

12.0 Contract Performance Bank Guarantee (CPBG):

Within 30(thirty) days from the date of issue of purchase order, the supplier shall furnish bank guarantee from a scheduled nationalized bank for an amount equal to the 10% (ten percent) of the contract value towards faithful performance of the contract. The Bank Guarantee shall be valid for a period to cover 90(ninety) days after expiry of warranty period

13.0 Rejection of defective materials and equipments:

13.1 If any materials shall found defective / inferior / not found fit for the R&M works at the time of receipt of materials or during the progress of R&M works, the same shall be immediately intimated to the contractor in writing. On receiving the details of any such discrepancies / deficiencies, the contractor shall have to replace the materials /equipments within a period of time frame as jointly decided by contractor and NEEPCO's EIC at the contractor's own expenses.

13.2 In the event of any rejection of materials, any delay in the process of execution of R&M works thereof shall be considered & treated under the clause of LD.

14.0 Transportation and Title of transfer:

The Contractor shall dispatch the materials Ex-Works, Naroda / Ahmadabad, Gujarat. The materials shall be transported through reputed transporter approved by NEEPCO. Payment against freight shall be at actual on submission of documentary evidences and subject to a ceiling of 1% (One Percent) of the basic value of the materials.

15.0 Packing, Forwarding and Shipment:

15.1 Packing and forwarding charges shall be paid extra @ 0.5% on the basic value.

15.2 The Contractor shall be responsible for securely protecting and packing the plant and equipment or materials / spares, taking care for protruding parts and such other vulnerable parts to withstand the journey and ensuring the safety of materials and also arrival of materials at site in good and original condition for contemplated use, so as to avoid damage under normal conditions of transport, loading & unloading, handling and storage at site till the time of erection. The contractor shall be responsible for any loss or damage during transportation, handling and storage due to improper packing.

15.3 Each bundle of package shall have following marking on it:

a. The name and address of the consignee,

b. Destination place shall be as below:
"The Sr. Manager (E/M), MMW,
Assam Gas Based Power Plant, NEEPCO Ltd.
P.O.: Bokuloni (Near Duliajan)
Dist: Dibrugarh, Assam-786191"

c. The relevant marks, reference numbers etc, for identification,

d. Direction for handling the materials,

15.4 Each package shall also be accompanied with detailed packing list to facilitate checking of the contents at the site.

15.5 The Contractor shall notify the Purchaser the date of each dispatch from his works, and expected date of arrival at the project site for the information of the purchaser.

15.6 The contractor shall also provide all dispatch information concerning the weight, size and content of each package, including any other information which the purchaser may require.

15.7 All demurrage and other expenses incurred due to delayed clearance of the materials and which are attributable to the contractor and sub-contractor during transportation shall be to the account of the Contractor.

16.0 Governing Laws / Arbitration:

21.1 Dresser-Rand and NEEPCO shall make all reasonable efforts to amicably resolve any dispute arising out of this contract.

21.2 Arbitration if any shall be as per the Indian Arbitration and Reconciliation Act 1996. Each party shall appoint one arbitrator. The two appointed arbitrator shall then select the third arbitrator.

21.3 Place of arbitration shall be Guwahati / Delhi.

17.0 Set Off: No set offs are applicable to the contract.

18.0 Site Insurance:

Site insurance for all site activities, relating to all works including materials handing will be under the scope of Contractor's.

19.0 Contract agreement:

The Contract agreement shall be signed within 15-20 days from the date of acceptance of this order. You are to depute one of your authorized signatory for signing of the contract agreement.

Kindly acknowledge the receipt of this supply order and confirm your acceptance of issue of this order.

Thanking you,

Yours faithfully,

Sr. Manager (E/M)
for & on behalf GM (E/M)
& Head of Project, AGBP

NIO:

No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/333-338 Dated 21/08/2018

1. The Director (Tech), NEEPCO Ltd., Shillong for his kind information please. This has approval of CMD Dated 30/05/2018.
2. The Executive Director (O&M), NEEPCO Ltd., Shillong, for kind information please.
3. The Sr. Manager (E/M), SFC, AGBP, NEEPCO Ltd. for needful.
4. The Sr. Manager (E/M), MMW, AGBP, NEEPCO Ltd. for needful.
5. The Sr. Manager (Fin), F&A Wing, AGBP, NEEPCO Ltd. for his information and needful.
6. The Sr. Manager (E/M), Vigilance Wing, AGBP, NEEPCO Ltd. for information.

21/8/18

Sr. Manager (E/M)
for & on behalf GM (E/M)
& Head of Project, AGBP

ANNEXURE-I

P. O. No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/332 Dated 21/08/2018

Details Scope for Supply of materials & revamping of 4th Dresser Rand Gas Compressor

SL. NO.	BROAD SCOPE OF SUPPLY & REVAMPING OF 4th GAS COMPRESSOR	QUANTITY
1.	2 (Two) numbers of complete gas ends 16.25" (each consists of cylinders, pistons & rod ASM, magnum valves for 1st & 2nd stage cylinders, outer heads, VVCP, new rod pickings and other scope detailed in the last PO for revamping of 3 nos. of Dresser Rand Gas compressor. The details are as follows: A. 16.25" complete gas ends for 2nd Stage for 1 (One) unit with: - Lubricated construction - Cast iron solid bore cylinder barrel with integral crank end head - Cast gray iron or aluminum piston - AISI 4142 steel piston rod - D-R make magnum valves for both 1st stage and 2nd stage cylinders for 3 units. - Thermoplastic combination piston rings - Teflon piston rod packing rings - 0.75 NPT plugged connections for indicator ports on outer end and frame end of all cylinders B. New Clearance pockets for existing 1st stage 23.00" cylinders for 1 Unit; C. Supply of new instruments for 1st stages, 2nd stage, safety relief valves for process gas piping, NRV and SOV operated ON OFF valve in the process gas piping;	1 lot
2.	2 nos. of suction separators and 2 nos. of suction & discharge pulsation suppressors, piping, instrumentation etc. A. 1 no. new PULSATION DAMPENERS for 2nd stage: - Suction volume bottle & discharge volume bottles (Horizontal Type) - Designed as per ASME code Section VIII, Division 1 - MOC: Carbon steel construction with 1/8" (3.18mm) corrosion allowance - Designed pressure to suit the relevant stage relief valve pressure - Design temperature 350 deg F (177 deg. C) Sized to meet API 618 pulsation levels at the line flanges -Connection reinforced in accordance with ASME code - NPT connections for vessel mounted instrumentation B. New Suction scrubber at inlet of 1st stage and 2nd stage for 1 unit: - Designed as per ASME code section VIII Division 1	1 lot

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SL. NO.	BROAD SCOPE OF SUPPLY & REVAMPING OF 4th GAS COMPRESSOR	QUANTITY
	- Skid mounted - MOC: Carbon Steel SA 516 Gr. 60 with valve pack. C. Miscellaneous supply of materials by DR: - Process Gas Piping downstream of 2nd stage discharge pulsation suppressor till after cooler inlet flange and from after cooler discharge flange to common discharge header. - Hydrostatic test for new cylinders - Painting as per DR standard D. Materials required for modification of process gas, vent and drain piping within Dresser-Rand skid limit, as required. E. Thermal insulation for 2nd stage discharge pulsation dampener and discharge piping which is modified as a part of revamping of gas Compressors. F. General arrangement drawings and process gas P&ID. E. Erection and commissioning spares including O-rings and gaskets.	
3.	Digital pulsation study for the 1 unit	1 lot

ANNEXURE-II

P. O. No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/332 Dated 21/08/2018

Schedule of prices for supply of materials

SL. NO.	DESCRIPTION	QTY	TOTAL PRICE IN RS.
1.	Supply of materials related to revamping of 4th GAS COMPRESSOR Model No. 6HOS4-2 including piping materials	1 lot	6,10,46,666.00
	Total		6,10,46,666.00
(Rupees Six Crore Ten Lakhs Forty Six Thousand Six Hundred Sixty Six Only)			

24/8/18

No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/ 451 Dated 03/11/18

To,

M/s Dresser Rand India Pvt Ltd
(A Siemens Business)
Plot No. 187 GIDC Naroda Estate
Naroda, Ahmedabad – 382 330

Kind attn.: Mr. Mihir Patel, Project Management, Dresser-Rand India Private Limited

SUB: Detail work order for Renovation & Modernization of Dresser-Rand Gas Compressors, model: 6-HOS 4-2 of Gas Booster Station at Assam Gas Based Power Plant (291MW), Assam.

REF: 1. Our letter No. NEEPCO/AGBP/SFC/GBS-25/2017-18/344 Dated 06/09/2017
2. Your Technical offer No. QP17IN5591 Rev 01 Dated 15/09/2017
3. Our E-mail dated 16/09/2017
4. Your E-mail Dated 18/09/2017
5. Your firm Techno-commercial offer No. QP17IN5591 Rev 01 Dated 22/09/2017
6. Your E-mail Dated 25/11/2017
7. Our E-mail dated 22/01/2018
8. Your E-mail Dated 23/01/2018
9. Our E-mail dated 12/04/2018
10. Your E-mail Dated 12/04/2018
11. Our E-mail dated 14/05/2018
12. Your E-mail Dated 14/05/2018
13. Our letter No. NEEPCO/ED(O&M)/AGBP-24/2018-19/256 Dated 23/05/2018
14. Your letter Dated Nil
15. Our LOI issued vide No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/135 Dated 30/05/2018
16. Our letter No, NEEPCO/AGBP/HOP/2018-19/W-10(A)/219 Dated 26/06/2018

Dear Sirs,

With reference to above, the North Eastern Electric Power Corporation Limited is pleased to place this detail work order for Renovation & Modernization of Dresser-Rand Gas Compressor, model: 6-HOS 4-2 of Gas Booster Station at Assam Gas Based Power Plant (291MW), Assam, as per Annexure-I and terms and conditions mentioned below:

1.0 Contract Price:

1.1 The contract Price for the entire scope of works shall be ₹ 1,29,83,333.00 (Rupees One Crore Twenty-Nine Lakh Eighty-Three Thousand Three Hundred Thirty-Three) only.

1.2 The above price is exclusive of GST. GST is as applicable on the date of execution of contract against submission of documentary evidences.

1.3 The contract price shall remain FIRM during the entire period of the Contract and no escalation shall be allowed on the same.

2.0 Completion Schedule of Works / Service:

2.1 The work order for Renovation & Modernization shall be completed within 45 (Forty-Five) days from date of receipt of all revamp hardware at site and handing over of the machine to the firm.

2.2 NEEPCO shall issue the commissioning certificate after 72 hours of continuous successful operation of Gas Compressor unit after startup.

2.3 The necessary modification of discharge piping, installation of isolation valve etc. shall be completed within shut down period for revamping works.

2.4 No additional plant shut down shall be allowed in any other conditions.

3.0 Criteria for Performance Test:

The Predicted Compressor Performance is as per Annexure - II. Dresser Rand has to establish predicted performance at site condition. Payment shall be released after acceptance of Performance Test by EIC (Engineer-in-charge) NEEPCO or his authorized representative.

4.0 Terms of Payment for Works / Service:

100% (Hundred Percent) payment shall be released after successful completion of works with applicable taxes and duties within 30 (Thirty) days on submission of the followings to the EIC or representative of EIC:

a. Detailed Invoices in triplicate.
b. Commissioning / job completion / field report in triplicate.
c. PG Test report duly accepted by NEEPCO.
d. Documentary evidences for payment of GST as per prevailing GST norms.

5.0 Mode of Payment:

All payments due to the contractor shall be disbursed through e-payment system. The Engineer-in-charge (EIC) or his authorized representatives will verify and certify the Contractor's invoices. The contractor shall have to furnish the information (Bank details) as per Annexure- III.

6.0 Bank Charges:

Bank charges, if any, shall be to the contractor's account.

7.0 Paying Authority:

Paying Authority for payments shall be Head of Finance, Assam Gas Based Power Plant, Bokuloni, Dist: Dibrugarh, Assam, PIN: 786191.

8.0 Withholding Payment:

8.1 The Purchaser may withhold the whole or part of any payment for the works claimed by the contractor which, in the opinion of the Purchaser, is necessary to protect himself from loss on account of:

a. Defective works,
b. Failure by the contractor to make payments for materials, labour employed by him and their PF dues.
c. Insufficient progress of Revamping works.
d. Damage or loss of property or equipment of the Purchaser.
e. Non-return of equipment's / materials supplied by the Purchaser when the same is due.

8.2 When the grounds for withholding payment are removed, payments of the amount due to the contractor shall be made by the purchaser without delay.

9.0 Liquidated damage for delay in supply and completion of the works:

9.1 Time is the essence and LD is the sole remedy.

9.2 In case the contractor fails to execute the works within contractual period (or any extension thereof) due to reasons attributable to the contractor, then the Corporation reserves the right to recover from the contractor's sum towards Liquidated Damage @ ½ % (half percent) value of the uncompleted portion of the works for each calendar week or part thereof delay from the schedule of date of works (or extension thereof). The total recovery from the contractors account of this shall, however, not exceed 5 % (five percent) of the value of the uncompleted portion of the works. However, the Liquidated Damage will not be imposed if the contractor fails to complete the works within the scheduled period due to Force Majeure conditions, which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, floods, explosion or fire not caused by the contractor's negligence, lightning, acts of God or the public enemy which is of such a nature as to delay, curtail or prevent timely action by either party.

10.0 Force Majeure:

In case of any force majeure conditions arising out of the acts of God, acts of public enemy, war, insurrections, riots, epidemics, landslides, acts of terrorism, and any other similar events beyond the control of the contractor or purchaser, and which by exercise of due diligence neither contractor or purchaser is able to overcome, the period of completion of works shall be extended without imposition of any penalty. If force majeure conditions persist beyond 90 (ninety) days, NEEPCO and Dresser-Rand shall jointly decide on further course of action.

11.0 Guarantee / Warranty:

Guarantee / warranty of the works shall be for a period 6 (Six) months from the date of completion of the works or from the date of startup. Any claim for defective works shall be made in writing immediately upon discovery. The contractor shall remain liable to replace any defect and / or rectify any damage / deficiency that may develop or detected during Warranty period. Such defects and /or damage shall be repaired or replaced as per decision of the Engineer-in-charge and solely at the cost of the contractor. The replaced defective parts will be returned to the contractor at his own expenses.

12.0 Contract Performance Bank Guarantee (CPBG):

Within 30 (thirty) days from the date of issue of work order, the supplier shall furnish bank guarantee from a scheduled nationalized bank for an amount equal to the 10% (ten percent) of the contract value towards faithful performance of the contract. The Bank Guarantee shall be valid for a period to cover 90 (ninety) days after expiry of warranty period

13.0 Buyer's suspension of work:

In case NEEPCO suspended the works at site beyond 30 days, it shall pay the contractor for the suspension period and suspension beyond 30 days will be handled as per MD 001, D-R standard curve for cancellation charges.

14.0 Change In Order:

It is recognized that the Buyer / purchaser may request for changes in the work to be performed hereunder. The purchaser / buyer and the contractor / seller agrees upon the increase or decrease in the amount due under the Purchase order or in the time required for performance, if any, prior to the seller / contractor implementing the changes to work.

15.0 Limitation of Liability/indemnity:

The purchaser accepts the Limitation of liability clause of Dresser-Rand without any prejudice to the interest of the corporation (NEEPCO) within the limit of the Revamp job (i.e. 100% of the contract value). Mutual indemnification shall be applicable.

16.0 Governing Laws / Arbitration:

16.1 Dresser-Rand and NEEPCO shall make all reasonable efforts to amicably resolve any dispute arising out of this contract.

16.2 Arbitration if any shall be as per the Indian Arbitration and Reconciliation Act 1996. Each party shall appoint one arbitrator. The two appointed arbitrator shall then select the third arbitrator.

16.3 Place of arbitration shall be Guwahati / Delhi.

17.0 Site Insurance:

Site insurance for all site activities, relating to all works including materials handling will be under the scope of Contractor's.

18.0 Contract agreement:

The Contract agreement shall be signed within 15 days from the date of acceptance of this order. You are to depute one of your authorized signatory for signing of the contract agreement.

Kindly acknowledge the receipt of this work order and confirm your acceptance.

Thanking you,

Yours faithfully,

3/11/18

(H. K. Changmai)
G M & Head of Project,
AGBP, NEEPCO Ltd.,

NIO

No. NEEPCO/AGBP/HOP/2018-19/W-10(A)/ 452 - 56 Dated 03/11/18

1. The Director (Tech), NEEPCO Ltd., Shillong for his kind information please. This has approval of the CMD Dated 30/05/2018.
2. The GM I/c O&M, NEEPCO Ltd., Shillong, for kind information please.
3. The Sr. Manager (E/M), SFC, AGBP, NEEPCO Ltd., for needful.
4. The Sr. Manager (Fin), F&A Wing, AGBP, NEEPCO Ltd., for needful.
5. The Sr. Manager (E/M), Vigilance Wing, AGBP, NEEPCO Ltd, for information.

3/11/18

G M & Head of Project,
AGBP, NEEPCO Ltd.,

ANNEXURE-I

Details of Works for Revamping works of 4th Dresser Rand Gas Compressor:

SL. NO.	DETAILS OF WORKS FOR REVAMPING OF 4TH DRESSER RAND GAS COMPRESSOR:
1.	Dismantle, inspect, overhaul, and re-assemble of Old frames and running gear (Compressor frame components) of existing Gas Compressor
2.	Overhaul & cleaning of 1st stage 23.00" cylinders of Gas Compressor.
3.	Installation of followings: • Installation of 2 X 16.25" new Gas Ends of Gas Compressor • Installation of 1st stage suction Knock out drum (KOD) with new instrumentation, manual and auto drain system of Gas Compressor • Installation of 2nd stage Knock Out drum (KOD) with new instrumentation, manual and auto drain system for Gas Compressor • Installation of 2nd stage suction volume bottle with new instrumentation for Gas Compressor • Installation of 2nd stage discharge volume bottle with new instrumentation for Gas Compressor • Installation of new instruments for existing 1sr stage suction & discharge volume bottles for Gas Compressor • Overhauling & inspection of old components-main bearings, crankshaft, connecting rods, 1st stage cylinders of Gas Compressors • Installation of 2nd stage discharge gas line with new check valve, solenoid operated ON-OFF valve, manual operated ball valve for Gas Compressor • Installation of 1st and 2nd stage Suction Separator: shifting, replacement and erection of new separators, hooking up with existing pipe line, including Materials (instruments) and consumables & modification of drain & vent piping • Installation of 2nd stage Suction & Discharge volume bottles: shifting, replacement and erection of new volume bottles, hooking up with existing pipe line, including Materials (instruments) and consumables & modification of drain & vent piping • Installation of new gas piping from 2nd stage discharge volume bottle to After cooler (with cladding & thermal insulation) and After cooler to discharge header • Common discharge header modification during common shutdown (all materials required shall be under DR scope) • Installation of new instruments for 1st & 2nd stage volume bottles & separators.

SL. NO.	DETAILS OF WORKS FOR REVAMPING OF 4TH DRESSER RAND GAS COMPRESSOR:
	• Inspection of the Compressor base structure area and Epoxy grouting if required. • Barricade wall to isolate working area.
4.	• Field Servicing: • Unloading and shifting of all materials within site. • Stores Watch and Ward • Temporary Site Stores • GAS COMPRESSORS: • Recording of existing operating parameters • Shutdown and depressurization of the compressor • Draining of lube oil and cleaning of the compressor • Opening and removal of suction strainer • Blinding of Suction / Discharge lines & flare lines • Dismantling and removal of inter-stage jacket cooling water lines • Dismantling and removal of volume bottles, un-loaders, suction and discharge valves • Dismantling and removal of lube oil pump, lubricator, filter and lines • Cleaning of the compressor jackets • Checking of existing piston end clearances • Piston rod run out and measurements • Opening and removal of cylinder heads, gland packings, piston and piston rods • Opening and removal of cross heads, big end bearings & connecting rods • Opening and removal of lube oil cooler • Checking of cylinders alignment prior to dismantling • Checking of crankshaft deflection before dismantling • Opening and removal of 1st stage and 2nd stage cylinders yokes • Removal of crankshaft & inspection, installation of crankshaft with new main bearings • Measuring clearances of Main Bearings • Cleaning of the dismantled other parts, pipes etc. and inspection and deflection • Replacement of 2nd stage new cylinders (2 nos.) and alignment • Fitting of connecting rods, BEBs and crossheads • Fitting of piston rod / piston assemblies and cylinder heads • Assembly of all the gland packing • Measurements of piston end clearances, crosshead -clearances BEB clearances etc. and piston rod run outs after reassembly of various parts

SL. NO.	DETAILS OF WORKS FOR REVAMPING OF 4TH DRESSER RAND GAS COMPRESSOR:
	• Fitment of volume bottles • Fitting of lube oil pumps and its auxillaries • Removal of blinds and hooking up of the inlet / outlet gas, water and lube oil pipe lines, flare lines and Mechanical Test Run • Pre-commissioning, Commissioning Test Run
5.	• Loading and Unloading of materials at site: • Loading and unloading of materials shall be under the scope of dresser-Rand
6.	• Modification of process gas piping within the battery limit.
7.	• All the tools and tackles including lifting arrangement except crane (EOT crane of 5 Ton capacity inside GBS compressor building) required for job shall be arranged by Dresser-Rand.

ANNEXURE-II

Predicted Compressor Performance:

Operating Parameters			
	Units	Case-I	Case-II
Suction Pressure	Kg/Cm2	3.65	3.65
Discharge Pressure	Kg/Cm2	21.00	21.00
Suction Temperature	Deg. C	40	20
Wet Capacity	NM3/Hr.	29,043	30,729
Clearance Pocket First Stage	Open / Closed	Closed	Closed
Clearance Pocket Second Stage	Open / Closed	Closed	Closed
Compressor details:			
Type of Compressor		Four throw Reciprccating Compressor	
Model		23"X23"X16.25"x16.25"X 6" 4HOS-2	
No. of Stage		Two (2)	
No. of Cylinders		Four (4)	
No. of Throws		Four (4)	
Stroke		6"	
Speed	RPM	900	900
Comp. Shaft Power	BHP	2686	2755
Type of Drive		Direct	

Note 1: The VVCP shall have necessary limit / capacity for manual adjustment in both ways, so that the flow can be increased or decreased either way of 28,000 NM3/Hr. @ 900RPM.

Note 2: Dresser-Rand to establish predicted performance at site condition.

NO: NEEPCO/AGBP/C&I/T-13(C)/2018-19/90NBI155/ 410 Dtd 28/02/2019.

To
M/S Willstrong Solutions Pvt. Ltd,
1-128, UPSIDC Site-C
Surajpur Industrial Area,
Greater Noida
UP-201307, E-mail: info@willstrong.in

SUB: P.O. for Supply & Services of Up-gradation/Replacement of Vibration monitoring system of GT#1 & 2 by Design, Supply, Installation, testing and commissioning.

Our Ref: Tender No: NEEPCO/AGBP/C&I/T-13(C)/2018-19/NIQ/03 Dated: 19/8/2018 & Online Tender Id: 38504

Dear Sir,

Referring to above, Corporation is pleased to place this Purchase order with you for the Up- gradation/Replacement of Vibration monitoring system of GT#1 & 2 by Design, Supply, Installation, testing and commissioning at AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam.

S/N	Item description	Unit Price (Rs)	Qty	Total Amt in (Rs)
1	Field devices,	14,50,000.00	02Set	29,00,000.00
2	Monitoring System,	26,64,407.00	02Set	53,28,814.00
---	Total of Supply in Indian Rs.			82,28,814.00
(Rupees Eighty-Two lakh, Twenty-Eight thousand, Eight hundred and Fourteen) only.				
3	Installation & commissioning charges	2,50,000.00	02Set	5,00,000.00
(Rupees Five lakh) only.				

Your Bill of Materials must contain minimum of following items.

1) Proximity Probe (5mm) , Metrix	26 no
2) Proximitor, Metrix	26 no
3) connecting cables, Metrix	26 no
4) Seismoprobe, Metrix	04 no
5) Monitoring System, Set-point system	02 Sets

In addition to above if any materials are required for successful Installation & Commissioning of the complete system must be supplied free of cost by the supplier within the scope of this P.O.

1

Terms & Conditions

1) **Price Basis**:- Total Price as shown above is in INR on AGBP, Bokuloni basis including Packing & forwarding and Freight

2) Packing & forwarding: **Inclusive.**

3) **Taxes**: The above price is exclusive of Taxes. NEEPCO shall pay GST @ 18% or at actual both on ***supply & Services***. Our GST No is 18AAACN9991J3ZP. Your GST No: **09AABCW1717A1ZR.**

4) **Payment Terms**: **As per tender & the same is as below.**

A) For Supply: 90% payment of supply along with 100% taxes after receipt of material at site and on submission of followings.

a) Invoice in triplicate.
b) Delivery Challan.
c) Tax/GST Invoice as applicable.
d) Test certificate.
e) Warranty certificate.
f) Bank details for E payment.

B) Balance **10% payment shall be payable only** after successful installation & commissioning of the system.

For services: 100% payment with taxes shall be made only after completion of successful installation & Commissioning of the system at site.

5. Shipment, Freight & Insurance: The above price is inclusive of Freight charges up to AGBP, Bokuloni and exclusive of Insurance.

6) Delivery Period: The material shall be delivered within 12-weeks from the date of acceptable P.O. The date of dispatch of the materials from the supplier's works shall be considered as date of delivery. However, you are requested to explore the possibility to reduce the delivery period to the possible extent.

7) Mode of Transportation: The supplier shall deliver the materials to **The Consignee of NEEPCO at AGBP, Bokuloni, Assam** by any reputed transporter on Freight paid basis. Insurance shall be born by NEEPCO under its open marine insurance policy. Supplier shall inform the consignee well in advance for insurance coverage of the consignment.

8) Warranty: Materials are to be warranted for a period of 18 months from the date of receipt of the materials or 12 months from date of Installation & Commissioning whichever is earlier.

9) Fitment: The supplier must ensure that materials supplied are suitably fit in the purchaser's application. In case of any mismatch, short supply the same must be replaced by the supplier at free of cost.

10) Liquidated Damage: NEEPCO's standard LD clause is applicable which says if the supplier fails to deliver all the materials within the delivery time, NEEPCO,S standard LD-clause shall be applicable. Accordingly, reduce the contract price by ½ (half) percent

per week for the whole contract subject to maximum of (10%) percent of the contract value.

11) PBG / SD: **M/S Willstrong Solutions Pvt. Ltd,** shall have to furnish 10% bank guarantee of the Contract value of supply & services. The B.G shall be valid to cover up warranty period as per referred tender. The contractor shall at his/her own cost get the validity period extension of Bank Guarantee furnished by him/her till the completion of warranty period.

12) **Operational Manual:** The supplier / contractor shall provide a set of operational/Instruction manual of the Instrument as well as the system.

13) **Consignee:** - The Sr. Manager (E/M), Material Management Wing (MMW), AGBP, NEEPCO Ltd, Ph-(0374) 2825411.

14) **Delivery Destination:-** Assam Gas Based Power Plant(**AGBP**), NEEPCO Ltd, Bokulonoi, District: Dibrugarh (ASSAM), PIN: 786-191.

Kindly convey your acceptance of this P.O.

Thanking you.

Yours faithfully,

Sr. Manager (E/M), C&I Wing
AGBP, NEEPCO Ltd, Bokuloni,
Dibrugarh, Assam.

----------X----------

BENTLY
Nevada

Bently Nevada (Sales & Services) Private Limited
(A wholly owned subsidiary of Bently Nevada Corporation of USA)

55, Community Centre, East of Kailash, New Delhi - 110 065
Tel: + 91-11-647 0990 - 93, 647 07 63, 66, 86 68 Fax: + 91-11-647 0761, 648 9637

Ref: 341/GR/020603/11

Date: 03.06.02

North Eastern Power Corporation Ltd.
Assam Gas Based Power Project
Kathalguri
P.O. Bukloni – 786604
Dist: Dibrugarh, Assam

Kind Attn : Mr. P.K.Borah
Manager (EEC)

CC: Mr. B.C.Deka
Astt. Manager (C&I)

Sub : **Upgradation of Monitoring System for MHI Gas Turbine Generator Set.**

Dear Sir,

This has reference to the recent visit of undersigned to your plant and subsequent survey conducted on Bently Nevada Systems installed in your plant. We thank your and your official for keen interest and help rendered during survey. At this juncture we would like to mention that alongwith your officials we have conducted thorough survey of all installations and identified the detailed part numbers of different Bently Nevada probes and Monitoring system. Further to our survey we would like to highlight the following points

- The MHI Gas turbine Generator sets (4 units) have Bently Nevada 7200 series Monitoring system and 7200 series Transducer System. The part numbers of each item have been noted. The list is enclosed herewith. We request you to review the same and confirm us the correctness of the same. This will help both the organization to keep a record.

- We would like mention that after 25 years of its introduction, the 7200 series Monitoring System has become obsolete since 1993. However, the spares were available til 1999. We regret to mention that the spares for 7200 series Monitoring System are no more available with us. A letter was issued by us in this regard. Copy of the same is enclosed herewith for your reference.

- The 7200 series Transducer System are not obsolete and available with us. However, our latest offering the 3300XL transducer system is **technologically superior and cost less** than the 7200 series Transducer System.

- **Spares for Gas Turbine**: As mentioned above, the spares for 7200 series Monitoring System are no more available with us. We would suggest you to upgrade the Monitoring System and the Transducer system for one of the Gas Turbine. **The replaced 7200 series Monitoring System and the Transducer System can be used as spares for other three Monitoring System installed on other Gas Turbines.**

- For upgradation of Monitoring System and the Transducer system of MHI sets, we would like to offer you our 3500 series Monitoring System and 3300XL Transducer System. **Both systems are the latest offering from Bently Nevada** .

BENTLY
Nevada

SL NO: 03
(2019-20)
VIBRATION MONITORING SYSTEM
GT#1 & 2

- **and expected to exist for more than 15 years**. The 3500 series Monitoring System has several advantages over the previous models. Some of the features are mentioned in the enclosed Annexure.
- **The above mentioned upgradation path will help you to eliminate any extra cost involved in upgradation. In fact this will lead in cost savings by procuring less expensive and the latest system instead of old 7200 system spares.**
- We have enclosed herewith our offer for the upgradation of Monitoring System and the Transducer system for one number MHI Gas Turbine Generator set.

We hope the information furnished above are in line with our discussions and your queries.

If you need further clarification / information in this regard, please feel free to contact us.

Thanking you and assuring you of our best services at all time.

Yours truly,
for **Bently Nevada (Sales & Services) P. Ltd.**

Shantanu Chakrobarty
Applications Engineer
e-mail: shantanu.chakraborty@bently.com

K.Srinivas Reddy
Sr. Sales Engineer
Projects & Proposals
e-mail:srinivas.reddy@bently.com

REF: NEEPCO/AGBP/PEM/O&M-07/18-19/432. dtd.14/12/2018

To,

M/S CONSUL NEOWATT POWER SOLUTIONS PVT LIMITED
No.4/329-A, OLD MAHABALIPURAM ROAD, KOTTIVAKKAM
SHOLINGNALLUR
CHENNAI, TAMILNADU-600041 (Kind Attn:Mrityunjoy Chakraborty)

Sub: Detailed Order for "Design, Manufacturing, Supply, Retrofitting, Testing and Commissioning of 2 x 100KVA, 1 phase, 230V, 110V UPS system (Model: FALCON1000), 535Ah Plante Lead acid Battery Bank, One set of 5KVA UPS system etc. to AGBP, NEEPCO Ltd." for replacement of old existing UPS system and Battery Banks on buy back basis.

Ref.:

1. Our NIT No. NEEPCO/AGBP/PEM/O&M-07/18-19/02 dtd.11/06/2018 (Tender ID: 37341).
2. Our letter for clarifications vide NEEPCO/AGBP/PEM/O&M-07/18-19/233 dtd. 05/09/2018
3. Your clarifications vide Ref.: Consul/NC/18-19/02 dtd.10/09/2018
4. NEEPCO/AGBP/PEM/O&M-07/18-19/305 dtd.10/10/2018.
5. NEEPCO/AGBP/PEM/O&M-07/18-19/369 dtd.03/11/2018.
6. NEEPCO/AGBP/PEM/O&M-07/18-19/379 dtd.05/11/2018.
7. NEEPCO/AGBP/PEM/O&M-07/18-19/382 dtd.06/11/2018 and subsequent correspondence by our authorized service provider via email dtd.6/11/2018 for participation in e-reverse auction.
8. Confirmation & submission of declaration form for participation in e-RA via email dtd.12/11/2018.
9. 9. Confirmation of Final Price in e-reverse auction vide Offer No: 126882 dtd.13/11/2018 via email.
10. Our email for clarification of GST on Transit insurance via email dtd.03/12/2018.
11. Your clarification and confirmations of GST on Transit insurance via email dtd. 03/12/2018.
12. Our LOI No. NEEPCO/AGBP/PEM/O&M-07/18-19/421 dated. 04/12/2018.
13. Your acknowledgement of LOI via e-mail dated 04/12/2018

Sir,

With reference to above, the Corporation is pleased to issue this Detailed Order for "Design, Manufacturing, Supply, Retrofitting, Testing and Commissioning of 2 x 100KVA, 1 phase, 230V, 110V UPS system (Model: FALCON1000), 535Ah Plante Lead acid battery bank, 5KVA UPS system etc. to AGBP, NEEPCO Ltd. Bokuloni, Dibrugarh, Assam (Pin: 786191)" for replacement of old existing 2 x 100KVA, 1 phase, 230V UPS system on buy back basis as per following terms & conditions.

1.0 SCOPE OF CONTRACT: The Scope of works to be executed of this tender shall be as follows:

1.1 Design, Engineering, Manufacture, Inspection and Testing at Manufacturer's works before despatch, Packing & Forwarding, Supply, Transportation to site, Insurance from the source of supply till commissioning, Material Handling, Loading and unloading, Storage at Site, Retrofitting/installation, Testing and Commissioning of2 x 100KVA, 1 phase, 230V, 110V UPS system (Model: FALCON1000) with Parallel Redundant 12 Pulse thyristorised based Rectifier, IGBT based Inverters, In-built Output Isolation Transformer along with in-built static and maintenance Bypass, Plante lead acid Battery Bank battery bank, touch screen display, list of Mandatory Spares etc. as per agreed terms & conditions of NIT for replacement of old existing 2 x 100KVA, 1 phase, 230V, 110V UPS system and common Battery Bank. The new UPS shall have Common Battery Bank (Model: YHP13 535P, 180 cell) and shall have sufficient amp-hours capacity to supply 100% full load current for 60minutes.

1.2 The new UPS shall be as per requirement of Technical Specifications, Guaranteed Technical Particulars (GTP) as detailed in annexure-D and as per agreed terms & conditions whatever required in all respects to complete works successfully.

1.3 One complete set of 5KVA UPS system having 2 (two) no 110V AC uninterrupted power supply source for GBS (GC#1/2 and GC#3/4) along with 12V SMF (sealed maintenance free) battery bank with accessories in complete having 30mints backup. The scope also include 2(two) no static switch of adequate rating as per IEC 62310-1, IEEE446 (Model: Hornbill 1000S/2000S) for 110V AC power changeover from the 5KVA UPS to GTG's source as bypass supply and vice versa.

1.4 Load End Power Supply Distribution /ACDB: To provide power supply distribution boxes for sub-distribution of main UPS/ Utility feeder(s). These shall include necessary change over circuitry (if applicable), switch-fuse units, MCB, terminal blocks etc. suitable for the application. The supply distribution boxes shall be installed and utmost care should be taken to minimize interruption of critical load. Details planning of works need to be confirmed. The details of the AC distribution board, number of feeders etc. of the 2x100% and 25% spare feeders (minimum one each rating) with fuses for each rating shall be provided **as per annexure-B**.

1.5 Annual Maintenance Contracts: To ensure a complete preventive and full service maintenance contracts for a periods of 5(five) years for both the UPS system and battery system. The preventive maintenance service will have to be performed by factory trained Customer Engineers. The Annual Maintenance Contracts will be effective from the date of expiry of Warrantee/guarantee periods.

1.6 Disposal through buyback of the existing old tubular/rubber lead acid battery bank (450Ah, cell 180 no/set) and old existing 2 x 100KVA, 1 phase, 230V, 110V UPS system of AGBP, NEEPCO Ltd. (Dismantling of the old batteries in the battery bank and disposal as per statutory guide lines. Collection of the old batteries from Power Station site and draining of acid as required from the old batteries shall be in the Scope of the contractor.

1.7 The supplier shall arrange for coverage of insurance policy viz transit insurance till delivery at site, storage at project site, erection, testing and commissioning of the supplied equipment's shall be covered under the scope of contract.

1.8 **Mandatory Spares/Accessories**: To provide the following mandatory spares including fuses of equivalent ratings for each items and suitable for the equipment's to be supplied.

i) All cards /PCBs 1(one) number for each ratings and fuse of 10% of each ratings, SCR block for rectifier2nos all ratings, IGBT block for Inverter 1no each rating.
ii) Accessories and fittings (as per schedule of technical requirements). The list of mandatory spares, Accessories and fittings shall be as detailed in the Annexure-C

1.9 In case of requirement of FRLS (Fire resistance /redundant low smoke) Aluminum cable of adequate size between new battery bank and UPS during commissioning works, NEEPCO reserves the right to take the decision for procurement same which shall be decided in time. In case of procurement, the unit price of cable shall be as per L-1 rate for this particulars item which has already agreed. However, separate order shall be issued for this particulars item if felt necessary.

1.10 **Quality Assurance**: The Manufacturer shall ensure the Quality Assurance plan to be adopted a) at their Factory/ Works during manufacturing and at Work Site during execution.

1.11 Availability of Spares: To ensure availability of spares through the life of the equipment's to be supplied under the scope of contract and to ensure to provide within shortest possible time after call.

1.12 To provide documentation, demonstration/onsite training and testing to equipment at site to accrue technical knowledge, smooth operation and maintenance the new equipment.

1.13 Unit Start-Up & Site Testing: The manufacturer's authorized/field service personnel shall have to provide site testing if requested. Site testing consists of a complete test of the UPS system and the associated accessories supplied by the manufacturer. A partial battery discharge test shall have to be provided as part of the standard start-up procedure. The test results will be documented, signed, and dated for future reference.

1.14 **Manufacturer's Field Service**: To ensure the appropriate technical support resources to match escalating customer needs. Technical support service should be ensured in the NE Region and to provide within 24hrs in case of urgency.

1.15 **Training at site**: -The supplies shall have to provide insitu training to O&M personnel of the plant for operation and maintenance of supplied equipment.

2.0 **Prices:** The Price are on FOR AGBP, NEEPCO, Bokuloni basis. Total Basic Price for Supply, Commissioning and AMC shall be for an amount Rs. 1,02,88,750.00/- (Rupees one crore two lakhs eighty eight thousand seven hundred fifty) only and Total Price shall be Rs. 1, 19, 19,357.00 (Rupees one crore nineteen lakhs nineteen thousand three hundred fifty seven) only including all charges towards Freight & transit insurance, GST, Buy back, GST on buy back etc. as detailed in Annexure-A. However, Freight charges shall be paid at actual basis subjected to submission of documentary evidence.

The prices shall remain FIRM till successful completion of works. The supplier shall arrange for coverage of insurance policy viz transit insurance till delivery at site, storage at project site, erection, testing and commissioning of the supplied equipment's shall be covered under the scope of contract and take full responsibility during transit and comply with necessary safety measures as called for relevant Act/Regulations.

2.1 **Taxes and Duties:** The above mentioned price is inclusive of GST. However, the GST shall be paid at actual as per GST rule at the time of execution and subject to submission of GST registration, payment details against HSN code and GST invoice with all information details as per GST Rule. If any changes will come on GST, the same shall be regulated accordingly. Our GSTIN and PAN is '18AAACN9991J3ZP' and 'AAACN9991'.

3.0 **Terms of Payment:**

3.1 **For Supply:** 100% of F.O.R/F.O.B. at AGBP along with applicable taxes & duties for Supply items shall be paid within 30 days after receipt of materials in full and good condition at site subject to submission of BG @10% of the total Contract Price (excluding AMC price) valid for the period of 90 days from date of expiry of guarantee/warrantee period.

3.2 **For Retrofitting/Installation, Testing and Commissioning: For Retrofitting/Installation, Testing and Commissioning:** 100% charges for Erection, Testing and Commissioning along with 100% service taxes shall be paid within 30 days after successful commissioning of works as detailed in "Scope of Contract" against submission of following documents:-

i. GST Bill/ GST Invoice in triplicate,
ii. Guarantee/ warranty certificate,
iii. Bank account details for e-payment.
iv. Submission of test certificates & relevant drawings (For Supply: i-iv)
v. Submission of job completion certificate. (For Installation, Testing and commissioning: i, v)

Installation/Retrofitting, Testing and Commissioning may be done in phase manner depending on clearance for availing shutdown of Units. Prior intimation shall be given in due time and effort will be given from our end to avail the shutdown in a shortest possible time. However, during commissioning period, free accommodation shall be provided to the service engineer/commissioning engineer at our Guest House but food on chargeable basis.

3.3 **Annual Maintenance Charge:** 100% payment shall be made quarterly basis after successful completion of job every quarter on pro rata basis based on agreed annual maintenance cost subject to submission of a bank guarantee @10% of annual maintenance costfor each concern years or renewal/extension of BG for succeeding years. The AMC shall be valid for a period of 5(five) years to be commenced from the date of expiry of warranty/ guarantee period.

3.4 **Security Deposit:**

a) **For Supply, Installation/Retrofitting, Testing and Commissioning:**The successful bidder shall have to submit **Bank Guarantee in liew of Security Deposit** @10% of the Contract Price valid for a period of 90 days from the date of expiry of Guarantee/warranty periods as per our prescribed format as enclosed (Annexure-SD). The Security Deposit shall have to submit within a period of 30 days from the date issue of Contract Order

b) **Security Deposit for AMC:** The successful bidder shall have to submit Bank Guarantee in liew of Security Deposit @10% of annual maintenance cost for each concern years valid for 90 days from date of expiry of total maintenance contract periods or renewal/extension of BG for succeeding year wise valid for 90 days from date of expiry of AMC periods to be commenced from the date of expiry of warranty/ guarantee period.

The Security Deposit shall have to submit within a period of 30 days from the date issue of Maintenance Contract.

4.0 **Delivery Period**: The materials shall be delivered at site within 4(four) months from the date of approval of drawing.

5.0 **Commissioning Period**: The entire works are to complete within 5(five) months from the date of approval of drawing. However Installation, Testing and Commissioning periods may be extend depending on clearance for availing shutdown of Units. Prior intimation shall be given in due time and effort will be given from our end to avail the shutdown in a shortest possible time.

6.0 **Guarantee/Warranty**: The materials supplied shall be warranted / guaranteed as per manufacturer's norms or for a period of 18 months from the date of despatch or 12 months from the date of successful commission whichever is earlier against manufacturing defect/ defective workmanship. The successful bidder shall supply the materials to the satisfaction of the Engineer-in charge. Defective materials shall be replaced/ rectified by the supplier at free of cost immediately on intimation from this end.

7.0 **Liquidity Damage**: Time is the essence of the Contract. If the performance of the Contract is delayed due to the reason attributed to the Contractor, the Purchaser shall without prejudice to his right to recover damages for breach of the Contract:-

i) Reduce the Contract price by 1/2 %(half percent) per week or part thereof of delay in completion of time subjected to maximum of 10% of the contract price.
ii) Execute or authorize the execution of work departmentally or through any other agency without any notice to the Contractor at the risk and cost of the Contractor. The decision of the Purchaser shall be final and binding upon the Contractor. However, the above action shall be taken without cancelling the contract in respect of work not yet due to execution. Or
iii) Cancel the entire Contract on or portion thereof and if so desired, execute or authorize the execution of the work departmentally or through any other agency at the risk and cost of the Contractor. If the Contractor had defaulted in the performance of the Contract, the Purchaser may ignore the rates quoted by him for respective work even though the lowest for execution through other agency.
iv) Where action is taken under sub-clause (ii) or (iii) above to failure to complete the work, the Contractor shall be liable for any loss, which the Purchaser may sustain on that account. But the Contactor shall not be entitled to any gain on such execution and the manner and method of such execution shall be in the entire discretion of the Purchaser. It is not be necessary for the Purchaser to serve a notice of such execution of the Contractor.

8.0 **Submission of Drawing**: The contractor shall submit the Drawing, Documentation and BOM within 2(weeks) from the date of awarding the contract for approval of the purchaser. The contractor shall furnish general layout diagram to accommodate the batteries with necessary fitting and fixings in the existing battery room at AGBP Power House.

9.0 **Operational Manual**: The Manufacturer/Bidder/contractor shall have to provide 5 (five) sets of Operation and Maintenance Manuals of specified UPS of good quality in biding conditions along with equipment.The Manuals shall clearly include&indicate the installation methods, installation drawings, instructions a functional description of the equipment with block diagrams, safety precautions, illustrations, step by step operating procedures, and routine maintenance guidelines.

10.0 **Factory Testing**: Before shipment, the manufacturer fully and completely tests the system as per standard to assure compliance with the specification.

11.0 **Pre dispatch Inspection and Testing**: Testing of the materials as per relevant standard shall be carried at contractor's works. The tests shall be performed in presence of the Corporation's representative. For deputation of an authorised representative for inspection and to witness such tests advance intimation at least 20 days ago prior to the tests shall be given to the Corporation. The test certificates are to be forwarded for approval of the purchaser.

12.0 **Dispatch clearance**: No materials shall be dispatched without inspection or his authorized representative or otherwise given dispatch clearance by the purchaser in writing to the Supplier.

14/12/18

13.0 **E-way Bill (Road Permit):** E-way bill (Road Permit) may please be generated by the supplier. Our GSTIN NO is '18AAACN9991J3ZP'.

14.0 **Consignee:** The all materials as per schedule of items along with necessary accessories for completing the job shall be delivered FOR AGBP site at the address i.e. Sr. Manager (E/M), MMW; AGBP/NEEPCO Ltd, Bokuloni, Dist: Dibrugarh, Assam, Pin – 786191.

15.0 **Paying authority:** The Sr. Manager (F), AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam.

16.0 **Court of competent jurisdiction:** Any legal action taken or proceeding initiated or any of the terms of the agreement shall be only in the jurisdiction of local court of this Power Station area in Dibrugarh, Assam.

17.0 The Bidders shall obtain all risk insurance policies adequately covering the total risk of transportation of the materials and equipment to be supplied by him under the Contract, and will obtain Storage-cum-Erection policy for the materials and equipment to be erected by him under the Contract, in the joint names of the Purchaser and the Contractor, and to be kept valid till the plant and equipment is taken over by the Owner. It may so happen that, for erection works, the Contractor will have to take insurance coverage for the materials and equipment supplied by the Owner. In such case, the Contractor shall take insurance coverage for these materials and equipment also in which case the premium paid by the Contractor for Owner's materials and equipment shall be reimbursed to the Contractor against submission of documentary evidence. The Contractor shall, at his own cost, obtain Workmen's Compensation Insurance, Comprehensive Automobile Insurance, Comprehensive General Liability Insurance Policy and Fire Insurance.

18.0 All the terms and conditions, technical specifications which are not indicated here shall be governed as per Bid documents and agreed terms and conditions. Further, any other necessary item/protective devices/equipment and accessories whether specifically mentioned herein or not, but necessary for completeness and satisfactory performance of the UPS system shall be provided.

19.0 The issuance of this order, will not relief the Manufacturer/Bidder/Party from the responsibility of Scope of Contract whatever required in all respect to complete the works successfully.

You are requested to kindly acknowledge the receipt of this order and conveyance your acceptance.

Encl: Annexure-A (Price Schedule)/Annexure-B (ACDB)
Annexure-C (List of Mandatory Spares & Accessories)/Annexure-D (GTP)
Annexure-SD (Model Form of Bank Guarantee)

Yours faithfully,

14/12/18

Dinabandhu Baishya
Sr. Manager (E/M), PEM,
AGBP, NEEPCO LTD., Bokuloni

NIC: Memo No. NEEPCO/AGBP/PEM/O&M-07/18-19/433- 438 dtd. 14/12/2018

1. The HOP, AGBP, NEEPCO Ltd, Bokuloni for kind information please. This is issued as per finance concurrence vide UO No: NEEPCO/F&A/764 dtd.27/11/2018 and subsequent approval accorded vide UO No: NEEPCO/HOP/1731 dtd.03/12/2018.
2. The Sr. Manager (E/M), O/O the DGM (E/M), O&AWC, AGBP, Bokuloni- for kind information please.
3. The Sr. Manager (F & A), AGBP, Bokuloni- for kind information please. Photo copy of approval is attached for kind information please.
4. The Sr. Manager (E/M), MMW, AGBP, Bokuloni- for kind information please.
5. The Sr. Manager (E/M), Vigilance, AGBP, Bokuloni - for kind information. Photo copy of approval is attached for kind information please.
6. Office record file O&M-07.

14/12/18

O/C

Dinabandhu Baishya
Sr. Manager (E/M), PEM,
AGBP, NEEPCO LTD., Bokuloni

Annexure-A

Description of Items and schedule of Price

Sl.No	Description of Items (For Supply)	Quantity (Unit/Set) (a1)	Set/Unit Price (Rs.)(a2)	Total Price (Rs.)(a1 xa2 = a)	GST (b) @18%	Freight Charges (c)	Transit Insurance etc. (d)	GST on Freight Charges/Service charge (e)	Grand Total Price (Rs.) (a+b+c+d+e=A)	Buy Back (f)	GST on Buy Back (g)	Total Price on Buy Back (f+g = B)	Net Price (A-B=C)
1	Ex-Supply Design, Engineering, Manufacture, Inspection and Testing at Manufacturer's, Supply, Transportation to site, Insurance from the source of supply ... Storage at Site of 2 x 10KVA, 1 phase, 230V, 110V UPS system etc. as per NIB...1(one) complete set in lot	1	3616750	3616750	650015	60000	2400	11232	10241397	250000	45000	295000	9946397
1.1	One complete set of 5KVA UPS system having 2 (two) no 110V AC uninterrupted power supply source for GIS (GCR1/2 and GCR3/4) along with 12V SMF... is complete .... as stated in the NIB.... complete set in lot.	1	150000	150000	27000	0	0	0	177000	0	0	0	177000
2	ACDB: Design, Manufacture and supply of distribution boxes for sub-distribution of main UPS/ Utility feeder(s) .... along with 25% spare feeders ..... as stated in the NIT.... 1(one) complete set in lot	1	1250000	1250000	225000	0	0	0	1475000	0	0	0	1475000
	Sub Total for Supply ©		9986750	9986750	1797615	60000	2400	11232	11857997	250000	45000	295000	11562997
II (7.0)	For Retrofitting /Installation testing & commissioning.	Quantity (Unit/Set) (a1)	Set/Unit Price (Rs.)(a2)	Total Price (Rs.)(a1 xa2 = a)	GST (b)	F. Charges (c)	T. Insurance (d)	GST on Service charges (e)	Grand Total Price (Rs.) (A1)	B Back (f1)	GST on B Back (g1)	Total Price on BBack (f1+g1 = B1)	Net Price (A1-B1=D)
4	Retrofitting/Installation, Testing and Commissioning of 2 x 10KVA, 1 phase, 230V, 110V UPS system along with Battery Bank .... as stated in the NIT...1(one) complete set in lot	1	80000	80000		0	0	14400	94400	0	0	0	94400
5	One complete set of 5KVA UPS system ... for GIS (GCR1/2 and GCR3/4) along with 12V SMF etc. battery bank as stated in the NIB.... complete set in lot.	1	2000	2000		0	0	360	2360	0	0	0	2360
6	ACDB: Retrofitting/Installation, Testing and Commissioning of distribution boxes .... etc. as stated in the NIB..... complete set in lot	1	20000	20000		0	0	3600	23600	0	0	0	23600
	Sub Total for Retrofitting, testing & commissioning (D)		102000	102000	0	0	0	18360	120360	0	0	0	120360
III	Annual Maintenance Contract for periods of 5(five) years to be commence after expiry of warrantee/guarantee period.....	Quantity (Unit/Set) (a1)	Set/Unit Price (Rs.)(a2)	Total Price (Rs.)(a1 xa2 = a)	GST (b)	Freight Charges (c)	Transit Insurance etc. (d)	GST on Service charges (e) @18%	Grand Total Price (Rs.) (A2)	Buy Back (f2)	GST on Buy Back (g2)	Total Price on Buy Back (f2+g2 = B2)	Net Price (A2-B2=E)
7.1	AMC for 1st year (b1)...complete for 1st year	1	40000	40000		0	0	7200	47200	0	0	0	47200
7.2	AMC for 2nd year (b2)....complete for 2nd year	1	40000	40000		0	0	7200	47200	0	0	0	47200
7.3	AMC for 3rd year(b3)...complete for 3rd year.	1	40000	40000		0	0	7200	47200	0	0	0	47200
7.4	AMC for 4th year (b4)....complete for 4th year.	1	40000	40000		0	0	7200	47200	0	0	0	47200
7.5	AMC for 5th year (b5).....complete for 5th year	1	40000	40000		0	0	7200	47200	0	0	0	47200
	Sub Total for Annual Maintenance Contract (E)		200000	200000	0	0	0	36000	236000	0	0	0	236000
	SUB Total (Supply+Retrofitting+AMC)												
8	**GRAND TOTAL (RS)=C+D+E =(Rupees one crore nineteen lakhs nineteen thousand three hundred fifty seven) only.**												11919357

14/12/2018

Sr. Manager (E/M), PEM
AGBP, NEEPCO LTD, Bokuloni

Annexure-B

ACDB:

Floor mounted type with 230V and 110V (100% rated with step down transformer)

Particulars	25A MCB	16A MCB	10A MCB	6A MCB	Total Nos.	Spare feeder extra
ACDB-1 (230V)	4 pairs	4 pairs+1 piece	12pair	1 pair	21Pairs+1pc	25%
ACDB-2 (230V)	-	4 pairs	10Pair+1 Piece	1 pairs	15Pairs+1pc	25%
ACDB-3 (110V)	-	7 pairs	10Pair+1piece	5 pairs	22Pairs+1pc	25%
PF Meter	0.5-1-0.5 = 1 no				1 no	
Overload	(LA2-D22) = 0.1-30sec				10 no	25%
AC Ammeter	0-300A=1 no; 0-75A=1 no				2 no	
AC Voltmeter	0-300V=1 no; 0-150V=1 no				2 no	

14/12/1

(Dinabandhu Baishya)
Sr.Manager (E/M), PEM
AGBP, NEEPCO LTD., Bokulori

Annexure-C

List of Mandatory Spares

Sl. No.	Name of Recommended Spares	Minimum Quantity
1	Input Fuse	2
2	Battery Fuse	2
3	Control Fuse (1 Set)	2
4	DC capacitor	2
5	Inverter IGBT	1
6	Thyristor Module for Rectifier	2
7	Fan	2
8	DSB board (PCB)	1
9	Interface Board (PCB)	1
10	Driver Module (PCB)	1
11	DC-DC converter (PCB)	1
12	Rectifier Control Board (PCB)	1

Auxiliary Equipment's (Fittings & Accessories): One complete set of all accessories and devices required for maintenance and testing of batteries shall be supplied for each unit. Each set shall include at least the following:

S.No.	Item Description	Quantity
1	Syrine type Hydrometer set complete in all respect and capable of indicating specific gravity reading in steps of 0.005, suitable for the Plante type Lead Acid Cell Battery.	5 Nos.
2	Cell Testing Voltmeter Range: 3-0-3 Volts having scale conforming to IS.	5 Nos.
3	Mercury Glass Thermometer Range : 0-100°C having suitable scale representing 1°C temperature rise	5 Nos.
4	Specific gravity correction chart	5 Nos.
5	Plastic Syringe : 10 OZ	5 Nos.
6	Plastic Funnel : 150 mm dia.	5 Nos.
7	Acid resisting plastic jug: 2 ltrs. Capacity	5 Nos.
8	Rubber Syphone : 12.7 mm dia 2 mtr. Long	5 Nos.
9	Rubber Apron	5 Nos.
10	Pair of Rubber Gloves	5 Nos.
11	Rubber Boots : Knee height	5 Nos.
12	Goggles (industrial)	5 Nos.
13	Instruction card.	10 Nos.
14	No smoking notice for battery room	2 Nos.
15	Wall mounting type holder made of teak wood for hydrometer & thermometer.	5 Nos.
16	Minimum and maximum temperature indicator for battery room.	2 set
17	A set of Special Tools (insulated, spanners etc.)	1 set
18	Cell lifting facility	1 No

Note: Any other necessary protective devices/equipment and accessories whatever required for completeness of the UPS system whether specifically mentioned herein or not, but necessary for completeness and satisfactory performance.

14/12/18

(Dinabandhu Baishya)
Sr.Manager (E/M), PEM
AGBP, NEEPCO LTD., Bokuloni

Annexure-D

GUARANTEED TECHNICAL PARTICULARS (GTP) OF 2x100KVA UPS SYSTEM

Sl. No.	Description	Specification/ Parameters
1	Name of Manufacturer	M/S Consul Neowatt Power Solutions Pvt. Ltd.
1.0	Model:	FALCON1000.
1.1	Technology:	2 X100KVA UPS Parallel Redundant having proven technology 12 Pulse thyristorised based Rectifier, IGBT based Inverters, In-built Output Isolation Transformer for galvanic Isolation between Input & Output and along with in-built static and maintenance Bypass whatever required completing in all respects as stated in NIB.
1.2	One complete set of 5KVA UPS system having 2 (two) no 110V AC uninterrupted power supply source for GBS (GC#1/2 and GC#3/4) along with 12V SMF (sealed maintenance free) battery bank with accessories in complete having 30mints backup; 2(two) no static switch of adequate rating with mounting arrangement in complete as required for 110V AC power changeover from the 5KVA UPS to GTG's source as bypass supply and vice versa.	5KVA UPS with 2 (two) no 110V AC uninterrupted power supply source for GBS shall be for industrial purpose and static switch shall be as per IEC 62310-1, IEEE446 (Model: Hornbill 1000S/2000S).
1.3	Standards (or as per latest amendment): IEEE-446-1995; IEC 62040 (-1, -2, -3) / 60146 / IEC 60950--Test Specification; IEC 60529 / IEC 60439 / IEC 60076- Degree of Protection; IEC 60332-1-2-Procedure for testing; IEEE C62.41, Category A & B-- Surge Protection; NFPA 70-National Electrical Code; IEC 62040-3--- Protections	All materials shall be testing as per relevant national/international standards or latest amendment.
1.4	Conformity: EMC Directive 2004/108/CE; Low Voltage Directive (LVD) 2006/95/CE Mark	As per National and International standard
1.5	UPS system layout drawings with dimensions including battery bank/rack.	Should be suitable for existing system
A	**INPUT**	
1	Voltage	415V, 3 phase (3ph+N)
2	Voltage tolerance	+15%, -15 %
3	Frequency: 50 Hz	50 Hz
4	Frequency tolerance	+6%, -6 % .
5	Power factor at nominal voltage and full load	> 0.92
6	Current limit:	115% (adjustable between 100-125%)
7	Input circuit:	With proven technology 12 Pulse thyristorised based Rectifier
8	Rectifier type:	With latest & proven technology 12 Pulse thyristorised based Rectifier & Inverters with latest technology IGBT based.
9	Control: DSP(Digital signal processor) Controlled with latest technology	DSP(Digital signal processor) Controlled with latest technology
B	**OUTPUT**	
1	Module full load rating KVA:	100KVA or better 1ph, 2wire 230V
2	Rated voltage:	230V 1Ph, 2wire
3	Output voltage adjustment range:	<+/- 5%

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4	Output power factor range:	0.8 to unity or better (7 lag to leading)
5	Mains synchronization tracking:	+/-0.1 Hz
6	Output voltage harmonics:	Total harmonic distortion is < 2% max for 100% linear load and <5% max for 100% non- linear load (Ref.IEC 62040-3)
7	Overload rating:	Overload capacity is 110% for 60mint; 125% for 10mint and 150% for 60 sec.
8	Current limit:	Set at 150% of output power.
9	Transient response:	a)50% load change :+/-8% b) Loss / Return of AC input: +/- 5% with the fully charged Battery or better
10	Transient recovery time:	Up to 98% is less than 20 msec.
11	Frequency Stability:	a)Unsynchronized: +/- 0.1 %; b)Synchronized: The output will synchronize with bypass supply within +/- 1 Hz of nominal frequency (Settable to +/- 2Hz)
12	Transfer Time from inverter to bypass and vice versa.	a)Manual transfer: Make before break b) Automatic Transfer (synchronous mode):No break; c) Asynchronous mode :< 10ms.
13	Static Switch Rating:	1000% for 100msec.
14	Individual Manual by pass	Manual by pass shall be provided for in each individual UPS Module.
15	Galvanic Isolation:	In-built Isolation transformer with insulation class H
16	Acoustic Noise(At 1 meter from UPS):	Max noise level shall be less than 75dB at a distance of 1 M from the body of UPS.
17	Efficiency of Inverter:	93%.
17(i)	Historic data log:	At least 1000 or more events, which can display UPS front display board
18	Communication port:	Potential free contact ports, SNMP or Modbus communication/RS485/RS232 port for display on online status of UPS on HMI & PROFIBUS, USB interface etc. as stated.
19	Data down load:	All the events recorded have the facility to download through USB key/External device and **to provide the laptop/pc as per standard to avail the events**
C	**DC CHARACTERISTICS**	Submitted Product Brochure and agreed.
1	Nominal DC bus voltage:	**Min. Voltage is 333V and max. 495V considering ECV (1.85V) & Boost charge voltage (2.75V).**
2	DC voltage stability::	+/- 1 %
3	DC ripple	:< 1 % (with Battery connected)
4	Chartering current:	15% of Battery AH.
5	Battery Isolation:	Battery circuit Breaker shall have under-voltage release coil & outside the UPS Modules
6	Battery Backup time:	60 minutes at 100% load
7	No of battery bank:	Common
8	Battery :	Excide
9	Type:	Lead acid Plante
10	Battery rating: Total VAH	192600VAH.
11	No of battery:	180 cells
12	Battery Ah calculation	**535AH** (YHP13 535P) with voltage range 333V to 495V considering ECV (1.85V) and Boost charge voltage (2.75V).
13	Earth leakage Monitor	DC earth fault alarm

14	Battery rack:	MS/FRP material as per standard or latest amendment
15	On line battery testing:	Provision for the batteries to be tested automatically /manually from front display in running condition without any interruption
D	Display:	At least 7.1" Touch Screen, LCD /Color TFT display, battery earth fault etc. as per standard features.
17	UPS panel type:	Floor mounted front access only
18	Operating temperature:	0 – 40 deg.C
19	Panel Protection level:	IP42
20	Storage temperature:	0 -70 deg C
E	MEASURING INSTRUMENTS	
1	LCD panel:	Output voltages, Output currents and Frequency, Battery Voltage and Charging / Discharging current should be shown
2	LCD panel displays:	Status of the Battery charge status should be shown (in %).
F	BYPASS LINE TRANSFORMER & SCVS BYLINE TRANSFORMER	
1	Stabilizer with Transformer	As per NIT.
G	ACDB	
1	Redundant ACDB with 230V and 110V:	As per Annexure-B
H	Mandatory spares: b) Fitting and accessories	As per Annexure C Fitting and accessories as stated in NIT
I	Product Brochures	Original product brochure and manual of the UPS and battery should be submitted along with offer to refer the technical compliance
J	UPS system layout drawings, dimensions including battery bank/rack.	Should be suitable for existing UPS system layout drawings, dimensions including battery bank/rack
K	Accessibility:	UPS should be Industrial type floor mounted and front access only
L	Life periods of UPS system and availability of spares.	life periods of equipment and spares shall be for 20 years
M	Technology details:	Offered equipment shall be brand new with state of art technology and proven field track record.
N	Technical documents	ACA diagram, single line diagram and power circuit diagram to be provided during details engineering
O	Special tools	To provide for retrofitting and maintenance of UPS system as stated in NIB.
P	Our special terms & condition for completion of items/works suitable for existing system whatever required in respect for satisfactory performance.	The bidder doesn't absolve from their responsibility towards necessary protective devices and accessories whatever required for completeness of the UPS system whether specifically mentioned herein or not, but necessary for completeness and satisfactory performance if found suitable tech-commercially.

14/12/18

(Dinabandhu Baishya)
Sr.Manager (E/M), PEM
AGBP, NEEPCO LTD., Bokuloni

भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee
मेघालय स्टेट हाउसिंग फिनान्स को. आपरेटिव सोसायटी लि. बिल्डिंग
Meghalaya State Housing Finance Co-Operative Society Ltd. Building
नोंगरिम हिल्स, शिलांग – 793003
Nongrim Hills, Shillong – 793003

(मुख्य कार्यालय)
Ph. No 0364-2520050
Fax No : 0364 - 2520030
email: mserpc@datanet.in

No. NERPC/AS/Committee/2010/ 2458-527 Date: 24th August, 2010

To,

1. Hon'ble Chief Minister & Minister of Power, Govt. of Mizoram, Aizawl - 796 001
2. Hon'ble Minister of Power, Govt. of Arunachal Pradesh, Itanagar - 791 111
3. Hon'ble Minister of Power, Govt. of Assam, Guwahati – 781 006
4. Hon'ble Minister of Power, Govt. of Nagaland, Kohima – 797 001
5. Hon'ble Minister of Power, Govt. of Manipur, Imphal - 795 001
6. Hon'ble Minister of Power, Govt. of Tripura, Agartala – 799 001
7. Member (GO&D), CEA, Sewa Bhavan, R.K. Puram, New Delhi - 110 066
8. Secretary (Power), Govt. of Arunachal Pradesh, Itanagar – 791 111
9. Secretary (Power), Govt. of Assam, Dispur, Guwahati - 781 006
10. Secretary (Power), Govt. of Manipur, Imphal - 795001
11. Secretary (Power), Govt. of Meghalaya, Shillong - 793001
12. Secretary (Power), Govt. of Mizoram, Aizawl - 796001
13. Secretary (Power), Govt. of Nagaland, Kohima - 797001
14. Secretary (Power), Govt. of Tripura, Agartala - 799001
15. Chairman, ASEB Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
16. Chairman, MeSEB, Lumjingshai', S.R. Road, Shillong - 793 001
17. Chairman & Managing Director, TSECL, Agartala - 799001
18. Chairman & Managing Director, NEEPCO Ltd., Lower New Colony, Shillong - 793 003
19. Director (Finance), NHPC Ltd., NHPC Complex, Sector-33, Faridabad - 121 003
20. Director (Op.), POWERGRID, Saudamini, Plot No. 2, Sector-29, Gurgaon, Haryana – 122 001
21. Director (Operation), PTC, NBCC Tower, 15 Bhikaji Cama, Place, New Delhi – 110022
22. Director (Coml.), NTPC Ltd. NTPC Bhawan, Scope Complex, Institutional Area, Lodhi Road – 110 003
23. Executive Director (SO), NLDC, B/9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016
24. CEO, NVVNL, Core 5, 3rd Floor, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi – 110 003
25. Managing Director, AEGCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
26. Managing Director, APGCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
27. Managing Director, DISCOM (CA), Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
28. Managing Director, DLF, Guwahati – 781 001

Sub: Minutes of 9th TCC & 9th NER Power Committee Meetings held at Shillong.

Please find enclosed herewith the minutes of 9th TCC and 9th NERPC meetings held at **"Pine Wood Hotel", Shillong**, Meghalaya on the **11th & 12th August, 2010** respectively for your kind information and necessary action. The minutes are also available on the website of NERPC, **www.nerpc.nic.in**.

भवदीय / Yours faithfully,

(बी. के. जैन / B. K. Jain)
सदस्य सचिव / **Member Secretary**

Copy for kind information to:-

1. PS to Chairman, NERPC and Hon'ble Minister of Power, Govt. of Meghalaya, Shillong – 1
2. PS to TCC Chairman, NERPC & Director (Dist), Me. ECL, Lumjingshai, Shillong - 2

Deliberation of the RPC

The RPC noted as above.

ITEM NO. 1.1.4	**Installation of Line Reactor at Kathalguri end of Misa - Kathalguri Line.**

During the 8th NERPC meeting, the RPC requested POWERGRID & NEEPCO to furnish the joint inspection report to NERPC Secretariat and the issue can be discussed again if required in the next meeting. The issue has been discussed in OCC meetings and during the 49th OCC meeting held on 09.04.2010 PGCIL has intimated that the joint inspection has been carried out with NEEPCO and the space is available in Kathalguri substation. The total cost of the Scheme as intimated by NERTS, PGCIL is Rs. 3.5 to 4 Crores.

Deliberation of the TCC:

It was agreed that POWERGRID will execute the scheme on behalf of NEEPCO as deposit work. POWERGRID advised NEEPCO to write to them officially in this regard. MS, NERPC advised NEEPCO to do the needful in a month's time.Cost of reactor shall be recovered by NEEPCO through tariff as per CERC norms.

Deliberation of the RPC

The RPC endorsed the recommendation of TCC.

ITEM NO. 1.1.5	**Transfer facility in Bus Bar arrangement**

During the 8th TCC/RPC meetings held in Imphal, POWERGRID informed that they have to take line shutdown for breaker maintenance on the lines terminating in substations/switchyard owned by Assam/NEEPCO which do not have transfer bus facility. They requested that either the transfer bus facility may be created by the owning utility or they may be given deemed availability for outage of such lines whenever shutdown has to be taken for breaker maintenance.

During the 51st OCC meeting held on 11.06.2010, PGCIL had furnished the list of critical Sub-stations as mentioned below where transfer bus facility is to be implemented.

(35)

(126)

पूर्वोत्तर विद्युत शक्ति निगम लिमिटेड
(भारत सरकार का उपक्रम)

NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

(A GOVT. OF INDIA ENTERPRISE)

OFFICE OF THE ED (O&M)

ISO ...
OHSAS 18001 : 2007

File No. : NEEPCO/ED(O&M)/OPR-19/256

Date : 30.05.2012

Inter Office Memo

From : Executive Director (O&M) **To: HOP, AGBP**

Reference :

Subject : Installation of line reactor at Kathalguri end of Misa-Kathalguri line

Reference is invited to the subject above.

The Agreement, in original, signed between NEEPCO and POWERGRID for the work "Installation of line reactor at Kathalguri end of Misa-Kathalguri line" is forwarded for further necessary action from your end.

Executive Director (O&M)

Copy for kind information to:-

1. CMD, NEEPCO.
2. Director (Tech), NEEPCO.

Sr. Manager (E)
8/6/12

Original Agreement kept in HOP off. for record. (as confirmed by Sr. Mgr(E) O/o the HOP, AGBP

मेघालय MEGHALAYA

044824

AGREEMENT

THIS AGREEMENT is made on this 23rd day of May 2012 at Shillong between **North Eastern Electric Power Corporation Limited**, a company registered under the Companies Act of 1956, having its office at Brookland Compound, Lower New Colony, Shillong – 793 003 (hereinafter referred to as "NEEPCO" or "Owner" which expression shall unless repugnant to the context or meaning thereof include its Administrators, Successors, Executors and Permitted assigns) of the **First part**

and

Power Grid Corporation of India Limited., a Company incorporated under the Companies Act, 1956, having its Registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016 (hereinafter referred to as "POWERGRID" or "Consultant" which expression shall unless repugnant to the context or meaning thereof include its Administrators, Successors, Executors and Permitted assigns) of the **Second part**.

(POWERGRID and NEEPCO are hereinafter individually referred to as the 'Party' and collectively as 'Parties'.)

WHEREAS, NEEPCO desires to obtain consultancy services from POWERGRID for execution of construction of 220kV Line Reactor Bay at 220kV Kathalguri GBPP S/S including Supply & Commissioning of 20MVAR, 3-Ph, 245kV Shunt Reactor.

And whereas POWERGRID has consented to provide consultancy services to NEEPCO for execution of above mentioned works on the terms and conditions stipulated herein.

NOW, THEREFORE, THIS AGREEMENT WITNESSETH AS UNDER:

For the purpose of this Agreement, the terms used herein shall, unless repugnant to the context thereof, have the meaning assigned to them as under:

1.0 DEFINITIONS :

1.1 **"Agreement"** shall mean the agreement herein containing the Terms & Conditions set forth & agreed therein, including all other documents expressly annexed thereto or incorporated therein.

1.2 **"Project"**

1.2.1 **"Sub-station"** shall mean Construction of 220kV Line Reactor Bay at 220kV Kathalguri GBPP S/S including Supply & Commissioning of 20MVAR, 3-Ph, 245kV Shunt Reactor.

1.3 **"Bid Documents"** shall mean the tender documents prepared by POWERGRID consisting of technical specifications, notice inviting tenders and other terms & conditions of contract pursuant to which POWERGRID shall invite proposals for procurement of goods and services for the Project.

1.4 **"Contractor"** shall mean the Bidder whose bid is accepted by POWERGRID on behalf of the Owner for award of contract for the total work or any part of the work of the Project resulting in a contract and shall include such contractor's legal representatives, successors and permitted assigns.

1.5 **"Sub-Contractor"** shall mean any person (other than the contractor) named in the contract for execution of any part of the works or any person to whom any part of the contract has been entrusted with the consent of POWERGRID and include such sub-contractor and the Sub-contractor's legal successors in title but not any assignee of the contractor.

1.6 **"Nodal officer/Engineer"** shall mean the officer nominated by the Owner in writing to act as coordinator for the purpose of this work.

1.7 **"Project Manager"** shall mean the official nominated by POWERGRID in writing who shall be responsible for co-ordination with the Owner and for all activities concerning the execution of the Project.

1.8 **"Equipment/Material"** shall mean the equipment/materials procured through contractor by POWERGRID on behalf of the Owner for this Project.

1.9 **"Site"** shall mean and include the land & other places free from all encumbrances & disputes at which the Project and related facilities are to be constructed and any adjacent land, path etc., which may be allocated or used by the Owner/POWERGRID/Contractor/Sub-Contractor in performance of work under this Agreement.

1.10 **"Pure Agent"** shall have meaning assigned in the Explanation 1 of Sub Rule 2 of the Rule 5 of the Service Tax (Determination of Value) Rules, 2006 to the Finance Act 1994.

1.11 Words singular shall include the plural and vice versa, where the contexts so desire.

2.0 SCOPE OF CONSULTANCY SERVICES:

2.1 SCOPE OF SERVICES TO BE PERFORMED BY POWERGRID

The scope of services to be rendered by POWERGRID for execution of the Project on behalf of NEEPCO under this Agreement will be as under subject to specific exclusions as brought out in clause 2.2 hereinafter:

i) The scope of work shall include Design, Engineering, NIT, Tender Evaluation, Finalisation of contract, Procurement, Erection, Project Management, Testing & Commissioning and other works incidental thereto for execution of the followings:

Sub-station: Construction of 220kV Line Reactor Bay at 220kV Kathalguri GBPP S/S including Supply & commissioning of 20MVAR, 3-Ph, 245kV Shunt Reactor.

ii) Preparation of all Bid documents including technical specifications, tender drawings, NIT BOQ, NIT Cost Estimate, QR, BPS, Conditions of Contracts etc.

iii) Invitation of Bids, evaluation of bids, pre-award discussions with the selected vendors and finalization of awards on behalf of NEEPCO.

iv) Placement of orders/finalisation of contract, all post contract co-ordination, approval of contractor's drawings/documents, inspection of materials at the manufacture's work or at site and witnessing of testing of equipment/materials etc., and implementation of the agreed quality assurance program of the various manufacturer/contractors on behalf of NEEPCO.

v) Project Management including expediting to ensure supply of all materials and equipment in line with the agreed contract program and supervision of all activities such as storage, handling of materials/equipment at site, erection, testing and commissioning by the concerned contractors and making of progressive payment to the contractors on behalf of NEEPCO

subject to adequate funds being made available to POWERGRID by NEEPCO from time to time.

vi) The scope of work shall also include preparatory work, collection/compilation of details/data and preparation of the draft proposal for statutory clearance (if any). Being the owner of the project, NEEPCO shall obtain all these clearances from the concerned authorities. However, POWERGRID shall assist for obtaining these clearances by way of documentation, representing to concerned agencies.

vii) POWERGRID shall submit a copy of bid specifications, contract documents, purchase order copies and all drawings / designs to M/s NEEPCO for their records.

viii) POWERGRID reserves the right to appoint any contractor on behalf of NEEPCO for any specific job to ensure timely commissioning of the project.

ix) POWERGRID shall obtain Electrical Inspector's Clearance.

x) At the cost of Owner, POWERGRID will assist NEEPCO in obtaining any statutory clearance subject to clause 2.2(i) of this agreement. The above cost shall form part of Project cost.

xi) POWERGRID will function as "Pure Agent" basis for execution of the project on behalf of NEEPCO.

2.2 SCOPE OF SERVICES TO BE PERFORMED BY NEEPCO:
(Exclusion from POWERGRID's scope of services)

i) The full responsibility for obtaining the Project clearance, statutory clearance (if any), etc. shall be that of NEEPCO and POWERGRID shall assist for obtaining these clearances by way of documentation.

ii) All clearances from CEA and other agencies and issue of necessary Notification other than Electrical Inspector's clearance under the Electricity Laws.

iii) Liaison and follow up with Government bodies shall lie with NEEPCO.

iv) Settlement of any disputes with public / statutory bodies / local authorities / tax authorities / state authorities including Right of Way etc. shall rest with NEEPCO.

v) POWERGRID shall assist NEEPCO on the above as and when required.

3.0 WORKING PROCEDURE:

3.1 POWERGRID shall execute the work as defined in clause 2.1 above within the stipulated time frame. To enable POWERGRID to discharge its obligations in a smooth and efficient manner, NEEPCO shall issue necessary authorization in favour of POWERGRID to act on behalf of Owner for the scope of services under this Agreement and also provide all other necessary documents required for this purpose including concessional sales-tax declaration forms or any other applicable forms duly filled in and signed.

3.2 The recovery of TDS under CST/VAT/WCT/ Income Tax Act and any other acts as per Govt. regulation related to this work shall be done by POWERGRID on behalf of the NEEPCO from the Contractor's bills. TDS so deducted by POWERGRID on behalf of the NEEPCO shall be deposited with the relevant tax authorities by using NEEPCO's PAN, TIN and TAN Nos. on or before the due date as prescribed under the respective statute. Relevant Challans shall be forwarded to NEEPCO for information & filing of necessary returns and issue TDS Certificate under intimation to POWERGRID. POWERGRID shall obtain Electrical Inspector's Clearance, etc. within time frame as per statute to enable NEEPCO to comply with the same under the respective statute.

3.3 Road permit, wherever necessary, shall be provided by NEEPCO using their VAT registration no. or otherwise POWERGRID representative may be authorised to obtain Road permit using NEEPCO's VAT registration No.

3.4 Necessary "C" Form will be issued by NEEPCO (Owner) based on the recommendation of POWERGRID and request of the contractor/supplier, as per relevant Sales Tax Rules.

3.5 NEEPCO shall also ensure prompt release of funds to POWERGRID to enable unhindered progress of work.

3.6 To ensure proper co-ordination between POWERGRID and NEEPCO for carrying out the works under the scope of this Agreement, both NEEPCO and POWERGRID shall nominate their respective Nodal Officer/Project Manager who shall be the focal point for all matters relating to this Agreement.

4.0 RELEASE OF FUNDS:

4.1 To facilitate smooth execution of work and to complete the work within the stipulated time schedule, NEEPCO shall ensure that the required fund is released as per clause No. 10.0 of this agreement. NEEPCO shall be responsible for any liability arising out of delay in release of funds required for execution of the project.

4.2 POWERGRID shall commence the work under this Agreement after the receipt of first installment payment as indicated in Clause 10.0 below.

4.3 It is clearly understood by the parties that funding of the Project cost and Consultancy Fee along with applicable service tax is the responsibility of NEEPCO and POWERGRID shall not finance any portion of the work from its own funds at any time during the execution of the Project.

5.0 AWARD OF CONTRACT (METHODOLOGY):

5.1 For the purpose of execution of work under this agreement, the entire work of the project may be in one package or divided into more contract packages to be executed by various contractors.

5.2 The contracts shall be awarded by POWERGRID on behalf of NEEPCO in line with the Works & Procurement Policy and Procedure of POWERGRID for timely execution of the project.

6.0 PROJECT COST:

6.1 The Project cost shall include:

a) The cost of all equipment and services as paid to the contractor(s) or any other agency as required under the various contracts to be placed by POWERGRID on behalf of NEEPCO for executing the Project.

b) Cost towards Survey & Soil investigation and any statutory clearance.

6.2 The estimated cost of the project is ₹ 3,81,30,000.00 (Rupees Three Crore Eighty One Lakh Thirty Thousand) inclusive of F&I, ED & CST.

6.3 The above estimated cost is for estimation purpose only. However, depending upon site conditions or for any other reason, the cost of the project may undergo change during the implementation of the project. As such the final executed cost of the project will be certified by POWERGRID based on the actual works executed.

7.0 CONSULTANCY FEE:

The Consultancy Fee payable to POWERGRID for the services as brought out in clause No.2.1 above shall be 15% of the final actual executed cost of the Project including applicable Taxes and Duties. Based on presently estimated cost of the project as mentioned at clause No.6.2 above, the Consultancy Fee payable to POWERGRID works out to ₹. 0.572 Crore, plus Service Tax.

The actual project cost, consultancy fee, loss for availability based incentive and O&M charges thereof to be paid by NEEPCO shall be arrived at by POWERGRID only after completion of the project.

9.0 TAXES AND DUTIES:

(a) On Consultancy Fee and other charges

The Consultancy Fee and loss for availability based incentive and O&M charges indicated above do not include any taxes & duties. All present and future applicable statutory taxes, duties and levies (including any variation thereof) as applicable by any Act/Notification of Government (Central/State) or any other local bodies/authorities shall also be paid by NEEPCO.

(b) On Project Cost

The estimated project cost indicated above is inclusive of F&I, excise duty and sales tax at prevailing rates. All present and future statutory taxes / levies, duties, cess, entry tax or any kind of imposition(s) whatsoever imposed / charged by any Government (Central / State) and / or any other local bodies/ authorities on POWERGRID and / or its contractors in respect of execution of project which are not presently included in the estimated cost of the Project (including any variation thereof) shall form the integral part of the project cost and shall be payable by NEEPCO.

10.0 TERMS OF PAYMENT:

The terms of payment shall be as follows:

a) **Project Cost:**

NEEPCO shall arrange to release payments towards Project Cost directly to POWERGRID.

i) 10% of the estimated cost shall be paid within 15 days of signing of the Agreement.

ii) Balance payment shall be linked to the progress of work and payable quarterly in advance.

iii) Payment arising due to adjustment on account of variation between the presently estimated cost and the cost on award shall be made known to NEEPCO by POWERGRID when the later is determined. NEEPCO shall regulate the quarterly advance payments to POWERGRID accordingly.

iv) Payment arising due to adjustment on account of variation between the cost on award and final executed cost of the project shall be made as per requirement submitted by POWERGRID.

v) No Bank Guarantee shall be furnished by POWERGRID for receiving payments from NEEPCO.

vi) At no stage POWERGRID shall use its own funds for execution of the project.

vii) Any delay in implementation of project on account of non-availability of funds and services to be provided by NEEPCO shall not be attributable to POWERGRID and the period of implementation shall be deemed to have been extended to such delays.

viii) The dismantled materials of existing Bay will be returned to NEEPCO. In case NEEPCO is not willing to take over these dismantled materials, salvage / scrap values of dismantled materials as may be determined by POWERGRID shall be credited to NEEPCO and adjusted in the final bill.

ix) Immediately on receipt of entire expenditure incurred by POWERGRID towards construction/implementation of the above Project, the possession of the Project would be given to NEEPCO along with all the BG, Performance Guarantee, etc., obtained from the Contractors, Suppliers etc. However after commissioning of the Project, the operation and maintenance of the same shall be the responsibility of NEEPCO.

The bills towards Project Cost will be raised by POWERGRID through letter and all the payments shall be released by NEEPCO within 15 days of submission of such requirement.

b) Consultancy Fee:

NEEPCO shall arrange to release the Consultancy fee along with applicable Service Tax directly to POWERGRID.

i) 10 % of the estimated Consultancy Fee along with applicable Service Tax shall be paid within 15 days of signing of the Agreement.

ii) Balance payment of Consultancy Fee along with applicable Service Tax shall be linked to the progress of work and payable quarterly in advance.

iii) Payment of Consultancy fee along with applicable Service Tax arising due to adjustment on account of variation between the presently estimated cost and the cost on award shall be made known to NEEPCO by POWERGRID when the later is determined. NEEPCO shall regulate the quarterly advance payments to POWERGRID accordingly.

iv) Payment of Consultancy fee along with applicable Service Tax arising due to adjustment on account of variation between the cost on award and final executed cost of the project shall be made as per invoice raised by POWERGRID.

All the payments towards Consultancy fee shall be released by NEEPCO within 15 days of submission of Invoice by POWERGRID.

11.0 TIME SCHEDULE:

11.1 The completion schedule of the project shall be **18 months** from the date of signing of the Agreement or receipt of first initial advance payment/ whichever is later.

This is however, subject to NEEPCO fulfilling all its obligations in time as under:

i) Timely release of payments/funds by NEEPCO as mentioned at para 10.0 above.

ii) Besides NEEPCO shall also obtain all other clearances from concerned authorities including issue of necessary Notifications in time.

11.2 Any delay on account of above will affect the completion schedule and therefore, the period of implementation of this Agreement shall be deemed to have been extended to cover such delay as may occur.

11.3 If by reason of extra or additional work or any industrial dispute or any cause or causes outside of and beyond the reasonable control of POWERGRID and its contractor(s) including delay in release of funds by NEEPCO, the work is delayed or impeded, the delayed period shall be construed as automatic time extension.

11.4 The completion period is indicated in good faith and is subject to fulfillment of obligation on part of the Owner and POWERGRID.

12.0 PROGRESS REVIEW MEETINGS:

To review progress of work, a quarterly review meeting shall be held at the level of the Project Manager/Nodal Officer of both the parties at mutually agreed places. Project Manager, POWERGRID shall submit a monthly progress report to the Owner.

13.0 FACILITIES/INFORMATION TO BE PROVIDED BY OWNER:

13.1 All necessary information/data and facilities as may be required by POWERGRID in connection with services shall be promptly rendered by NEEPCO under this Agreement.

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13.2 NEEPCO shall give their views on all matters pertaining to this Project as may be referred to by POWERGRID from time to time within a reasonable time which would normally not exceed 15(fifteen) days and shall discharge faithfully all its obligations.

14.0 FORCE MAJEURE:

14.1 Force Majeure is hereby defined as any cause, which is beyond the control of POWERGRID or its Contractor(s) or NEEPCO as the case may be, which they could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affects the performance of the said work including, but not limited to the followings:

a) Natural phenomena including but not limited to floods, droughts, earthquakes, epidemics etc.,

b) Acts of any Government, domestic or foreign, including but not limited to war, declared or undeclared, quarantines, embargoes etc.,

c) Hostilities, revolutions, riots, civil commotions, strike, terrorism including in the premises of the Contractors.

14.2 During the period of inability to perform the services as a result of any event of Force Majeure, POWERGRID shall be entitled to continue to be paid under the terms of this contract as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the services and in reactivating the services after the end of such period, provided that such cases are notified in writing within 30 (thirty) days from the occurrence of such cause.

14.3 POWERGRID or NEEPCO shall not be liable for any delays in performing its obligation resulting from Force Majeure causes as referred to and/or defined herein above. The date of completion will be extended by corresponding period equal to the period of Force Majeure if the situation so warrants and by such period to be mutually agreed to by POWERGRID and NEEPCO. Should one or both Parties be prevented from fulfilling their obligations by state of Force Majeure lasting for a period of two months, the two (2) Parties shall consult each other and decide further course of action.

15.0 TAKING OVER:

POWERGRID shall intimate NEEPCO as soon as the works of the project have been completed (except in minor respects that do not affect their use and/or cause any serious risks) and NEEPCO shall issue a certificate to POWERGRID Site-in-Charge (herein called the Taking Over Certificate) in which they shall certify the date on which the works have been completed and passed commissioning tests, if any. The issue of taking over certificate

shall not be unreasonably withheld by NEEPCO. In case Taking Over certificate is not issued on satisfactory completion & commissioning of the Project, it shall be deemed to have been taken over on expiry of 30 days from the date of intimation by POWERGRID. Before handling over of the facilities, POWERGRID shall hand over the concerned drawing, test certificate, pre-commissioning test result, BG, Performance Guarantee etc. to the owner.

16.0 TERMINATION OF AGREEMENT:

16.1 In the event when both the parties mutually agree to terminate the Agreement, on account of force majeure or any other reason, termination shall take effect from the date and time to be agreed upon mutually.

16.2 In the event of termination of this Agreement, POWERGRID shall be paid proportionately for such scope of work, which have been completed/partially completed & mutually agreed upto the date of termination.

17.0 SETTLEMENT OF DISPUTE & ARBITRATION:

17.1 This agreement shall be governed by and construed in accordance with the laws of India. Any dispute or difference arising out of this agreement shall be amicably settled between the Parties.

17.2 In case of non-settlement of dispute or difference, the matter shall be within 30 days referred to arbitrator as per clause 17.3 herein below as provided in Government of India, Ministry of Heavy Industries and Public Enterprises, Department of Public Enterprises letter No-DPE/4(10)/2001-PMA-GL1 dated 22.01.2004 and its subsequent amendments thereof .

17.3 As per the provisions of aforesaid circular dated 22.01.2004:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Govt. of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Govt. of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary/Additional Secretary, when so authorised by the Law Secretary, whose decision shall bind the parties finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by Arbitrator.

17.4 The venue of Arbitration shall be at New Delhi.

17.5 This Agreement shall be subject to the jurisdiction of the court at New Delhi.

18.0 THIRD PARTY DISPUTE:

If any litigation/arbitration cases crop up during the process of placement of various contract orders or during the execution of the contract and thereafter between the contractor(s) and POWERGRID on behalf of NEEPCO, POWERGRID shall resolve the same on behalf of NEEPCO. NEEPCO shall provide necessary details, if required. The cost of such litigation/arbitration and liability arising out of the award thereof, if any, shall be borne by NEEPCO at actual.

19.0 LIQUIDATED DAMAGES FOR DELAY IN COMPLETION:

POWERGRID shall suitably incorporate the provisions towards levy of Liquidated Damages in their Agreements with Contractor(s) for delay in completion of the work. All amounts towards Liquidated Damages, if any, as may be received by POWERGRID under this provision, shall be suitably adjusted in the Project Cost.

20.0 PERFORMANCE GUARANTEE:

POWERGRID shall suitably incorporate the provision of Guarantee Clause in their Contract Agreements with Contractor(s) valid for a period of 12 calendar months commencing immediately after commissioning of the Project, which will be enforceable by the Owner.

21.0 AMENDMENT:

This Agreement may be amended or modified if necessary by a written instrument signed by the Parties and the same shall be considered as an integral part of this Agreement.

22.0 EFFECTIVE DATE:

This Agreement shall be deemed to have come into force with effect from the date of signing of Agreement or receipt of first initial advance payment whichever is later. All rights, obligations and responsibilities of Owner and POWERGRID shall be deemed to have commenced and accrued from the above date.

23.0 NOTICE OF DEFAULT:

Notice of default given by either Party to the other Party under this Agreement shall be in writing and shall be deemed to have been duly and properly served upon the Parties hereto if delivered by Registered mail against acknowledgement due and addressed to the signatories to this Agreement.

24.0 CORRESPONDENCE:

24.1 All communications from NEEPCO to POWERGRID shall be addressed to the Project Manager nominated by POWERGRID in writing for the purpose of this work.

24.2 All communication from POWERGRID to NEEPCO shall be addressed to the Nodal Officer nominated by NEEPCO in writing for the purpose of this work.

IN WITNESS WHEREOF the Parties hereto have fully executed these present through their duly authorized representatives on the Day, Month, Year and Place mentioned above.

For and on behalf of

North Eastern Electric Power Corporation Limited

(AKHTAR HUSSAIN)
General Manager (E/M)

WITNESS:

1.

2.

For and on behalf of

Power Grid Corporation of India Limited

अजय पतिर /Ajoy Patir
महाप्रबंधक / Gen. Manager
पावरग्रिड नेर्टस /POWERGRID, Shillong

1. (P. KANUNGO)
Chief Manager (OS)
POWERGRID, NERTS
Shillong.

2.

No. NEEPCO/AGBP/PEM/O&M-07/2017-18/39NBH122/ 580 (4) Dtd. 09-03-2018

To,

M/S Namrup Sales Corporation.
Namrup; P.O:Parbatpur; Dist:Dibrugarh
Assam (786623)

Email:kaushal_kanda@yahoo.co.in

Sub: Detailed Order for Supply, Installation & Commissioning of 2 (two) sets of 48 V, TBS (Opz) 500 AH tubular lead acid Battery Banks(Make M/S Exide Industries Ltd.) at AGBP, NEEPCO Ltd., Bokuloni, Dibrugarh, Assam.

Ref 1.Our Letter No: NEEPCO/AGBP/PEM/O&M-07/17-18/196 dtd. 29/08/2017.
2. Your offer vide Ref. No: AC/EX/AGBP/009 dtd.01/09/2017.
3. Request for clarification vide NEEPCO/AGBP/PEM/O&M-07/17-18/390 dtd.14-12-2017.
4. Your clarifications vide Ref. No: AC/EX/AGBP/006 dtd.21-12-2017.
5. Our Letter Ref. No. NEEPCO/AGBP/PEM/O&M-07/17-18/410 dtd. 29-12-2017.
6. Your clarification vide No. AC/EX/AGBP/004 dtd.29-12-2017.
7. Our LOI No. NEEPCO/AGBP/PEM/O&M-07/17-18/541 dtd. 23-02-2018

Dear Sir,

With reference to above, Corporation is pleased to place this order for Supply, Installation/Retrofitting & Commissioning of 2 (two) sets of 48 V, TBS (Opz) 500 AH tubular lead acid Battery in transparent container (Make M/S Exide Industries Ltd.) with MS Stand, IRIT, Acid and maintenance associations (type 24TBS500) as per IS: 1651-2013 and disposal through buy back of old existing battery bank of PLCC having 2 (two) sets of cell and each set consists of 24 nos cell at AGBP, NEEPCO LTD., Bokuloni Chariali, Dibrugarh, Assam, PIN: 786 191.

A. SCOPE OF CONTRACT :

Sl. No.	Scope of Supply/Works	Unit	Qnty.	Rate (Rs.)	Amount (Rs.)
I	Supply of 2 (two) sets of 48 V, TBS (OpzS) 500 AH tubular lead acid Battery in transparent container (Make M/S Exide Industries Ltd.) with MS Stand, IRIT, Acid and maintenance associations (type 24TBS500) as per IS: 1651-2013 with non-returnable container and accessories, battery terminal jelly etc. suitable for replacement of Existing System (48 V 500Ah Tubular Lead Acid Battery) to complete the battery bank in all respects for PLCC of AGBP, NEEPCO Ltd., Bokuloni, Dist: Dibrugarh, Assam.	Set	2 (two)	11,42,000.00	22,84,000.00
A	Less Discount@ 1.5%				34,260.00
B	Price after discount				22,49,740.00
C	Scrap value of old batteries Rs.850.00 x 48 Nos.				40,800.00
D	Total (B-C)				**22,08,940.00**
II	Installation/Retrofitting & Commissioning Charge of the above mentioned Battery Banks.	Set	2 (two)	60,000.00	**1,20,000.00**

B. **Terms & Conditions:**

1. **Price:** -The prices are FOR site basis and it shall remain "FIRM" till completion of delivery of the materials and execution of works as mentioned above.

2. **Taxes and Duties:** GST is applicable as per GST Rule subject to submission of GST Registration [illegible] and payment of GST as per HSN/SAC Code. The Firm has to submit GST No. details. Present rate [illegible] GST is @28% for supply and @18% to be paid extra against installation & commissioning charges. GST @ 18% will be charged extra against the scrap value of old batteries. If any changes will come on GST rate in future, same shall be regulated accordingly.Our GSTIN No. is 18AAACN9991J3ZP.

3. **Terms of Payment:**

   i) **Supply:** 100% payment with taxes & duties against supply of materials shall be released through electronic mode after receipt of materials at AGBP Site in full and good condition and submission of following documents:

   a) Submission of Performance of Bank Guarantee @ 10% of the contract value.
   b) Invoice in triplicate.
   c) Detailed packing list/ challan.
   d) Guarantee/Warrantee Certificate.
   e) Bank Account details for e-payment through RTGS or NEFT.

   ii) **Commissioning**: 100% payment applicable with taxes and duties shall be paid against Installation/Retrofitting & Commissioning Charge of the above mentioned Battery Banks after the successful commissioning and against submission of bill in triplicate and work completion reports.

4. **Performance Bank Guarantee:** The supplier have to be submitted Performance Bank Guarantee @ 10% of the contract value in prescribed format with a validity of 90 days after expiry of the guarantee period within 20 days from issue of the purchase order on fulfillment of all the terms and conditions. *can security deposit*

5. **Delivery:** - Delivery of the materials shall be made within 8-10 weeks from the date of receipt of approved drawing and commercially cleared Purchase Order. The date of installation & commissioning will be intimated in due course of time after receipt of materials at site.

6. **Guarantee / Warranty:** - The Battery Bank shall be guaranteed for manufacturing defects for a period of 12 (twelve) months from the date of commissioning or 18 (eighteen) months from the date of supply whichever is earlier.

7. **Rejection of defective materials:** - If the materials are found defective at the time of receipt, the same shall be rejected and the suppliers have to replace the same at their cost.

8. **LD Clause:** Our Standard LD clause shall be applicable for delay in delivery of materials (full or part) "In case you fail to deliver the materials within the contractual delivery period due to reason attributed to you, than the Corporation shall right to recover from your sum towards Liquidated Damage @1/2% (half percent) value of the undelivered portion of supply for each calendar week or part thereof delay from schedule delivery date. The total recovery from you on account of this, however, not exceeds 15% (fifteen percent) of the value of undelivered portion of supply. However, LD Clause will not be imposed if you fail to deliver the materials within the schedule of delivery period due to Force Majeure conditions, which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, floods, explosion or fire not cause by your negligence, lightning, act of God, act of public etc.

9. **Paying Authority:** The Sr. Manager (Fin), F & A Wing, AGBP, NEEPCO Ltd., P.O. Bokuloni Chariali, Dist. Dibrugarh, Assam. PIN: 786 191.

10. **Consignee:** The Sr. Manager (E/M), MM Wing, AGBP, NEEPCO Ltd., P.O. Bokuloni Chariali, Dist. Dibrugarh, Assam. PIN: 786 191.

Kindly acknowledge the receipt of the order.
Thanking you.

Yours faithfully

09/03/18

Sr. Manager (E/M).

Memo. No. NEEPCO/AGBP/PEM/O&M-6/2017-18/561-84 Date: 09-03-2018

Copy to:

1. The Head of Project, AGBP, NEEPCO Ltd., Bokuloni, for kind information please. This is as per Finance Concurrence vide No. NEEPCO/AGBP/F&A/2834 Dtd. 16/02/2018 and approval conveyed vide U.O. No. NEEPCO/HOP/2248 Dated 20/02/2018.
2. The Sr. Manager (Fin), F & A Wing, AGBP, NEEPCO Ltd., Bokuloni. A copy of Approval from Competent Authority is enclosed herewith for kind reference please.
3. The Sr. Manager (E/M), Vigilance Wing, AGBP, NEEPCO Ltd., Bokuloni. A copy of Approval from Competent Authority is enclosed herewith for kind reference please.
4. The Sr. Manager (E/M), MM Wing, AGBP, NEEPCO Ltd., Bokuloni, for kind information please.

09/03/18

Sr.Manager (E/M),
Plant Electrical Maintenance Wing
AGBP,NEEPCO LTD

North Eastern Regional Power Committee

MINUTES OF THE 134th OPERATION COORDINATION SUB-COMMITTEE MEETING OF NERPC

Date : 28/07/2017 (Friday)

Time : 10:00 hrs

Venue : "Hotel Nandan", Guwahati.

The List of Participants in the 134th OCC Meeting is attached at **Annexure – I**

Shri P.K. Mishra, Member Secretary, NERPC welcomed all the participants to the 134th OCC meeting. He noted the presence of participants from all the utilities including NETC and Sterlite Power. He expressed satisfaction about the maximum participants from all the utilities and requested to continue the same in future so that matters can be resolved during the meeting. He informed the forum about the decision taken by CEA regarding construction of one bay at Pallatana on Pallatana – S.M. Nagar and Tripura has to vacate the bay presently utilized for drawing power from Udaipur so that reliable power supply to Bangladesh is ensured. He also mentioned about the delay and slow implementation of R&M Scheme through PSDF especially Ar. Pradesh & Manipur and requested them that the same should be carried out on priority. Further, he also informed the forum about the successful completion of training for 1st batch of participants of Study Tour and stated that the 2nd & 3rd batches will commence soon.

Shri T.S. Singh, GM, NERLDC in his address mentioned about the importance of Load Forecasting and hence they have once again requested Indian Meteorological Department (IMD) to give a presentation and highlight about the current status so that NER constituents can be benefited. Further, he also mentioned about the need of implementing the ABT meters at the earliest and stated that Hon'ble CERC is willing to extend all possible help for getting the funding from PSDF and hence requested NER States to avail the schemes at the earliest for benefit of the region. He also expressed happiness about the large number of participants and hope that the same trend continues in future.

Thereafter, Member Secretary requested Shri B. Lyngkhoi, Director/SE(C&O) to take up the agenda items for discussion. Shri Lyngkhoi welcomed Scientists from IMD, Shri Sunit Das and Shri Atul Kumar Singh, then Shri T.A.N. Reddy, VP, Sterlite Power, Shri S. Deshpande, Head(O&M), Sterlite Power and all the new officers participating from AEGCL, DoP Nagaland, MSPCL, NHPC & NETC and requested them

to attend the meetings regularly for the benefit of the organization and the region. He also informed that IMD, OTPC, NERPC will give the presentations on different topics for the benefit of the forum and also to discuss and resolve the issues. He informed the forum that CEA has formed a working Group for preparation on Guidelines for Availability of Communication System and the undersigned himself has been nominated for the working group from NER. Further, he mentioned that finalization of OPGW pertaining to States and CTU has to be resolved at the earliest before the next TCC/NERPC meeting in which he mentioned that the date for NeTEST will be fixed soon. He also informed the house that the scheme for Protection Database Management System (PDMS) is being prepared and as suggested by NPC, CEA a sub-group comprising member from NERPC, NERLDC, NERTS and utilities station in Shillong may also be included so that the DPR can be finalized and send to NPC/NLDC. He highlighted about the critical issue of Ranganadi HEP and requested to resolve the same.

A. CONFIRMATION OF MINUTES

CONFIRMATION OF MINUTES OF 133rd MEETING OF OPERATION SUB-COMMITTEE OF NERPC.

The minutes of 133rd meeting of Operation Sub-committee held on 8th June, 2017 at Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2016/4556-4591 dated 16th June, 2017.

The Sub-committee confirmed the minutes of 133rd OCCM of NERPC with no modifications as no comments/observations were received from the constituents.

ITEMS FOR DISCUSSION

B.1. ACTION TAKEN:

1. IMPLEMENTATION OF PROJECTS FUNDED FROM PSDF:

The status as informed in 134th OCC:

State	Protection System	ADMS	CAPACITOR INSTALLATION
Arunachal Pradesh	Approval for opening a/c under PFMS obtained.	Status to be updated	-

Nagaland	Work under execution. Completion by 30.09.17.	Under process of approval.	Under process of approval. To submit undertaking and other required documents.
Mizoram	By Aug'17 all LOAs would be issued.	Under process of approval.	Under process of approval. To submit clarification.
Manipur	By Aug'17 all tendering to be completed. By Sept-Oct'17 all LOAs would be issued.	Under process of approval. To submit clarification.	To submit pilot scheme DPR
Tripura	All LOAs issued. Target for work completion March'2018.	DPR submitted to CEA & NLDC.	Under Study stage**
Assam	By Aug'17 all LOAs would be issued.	DPR submitted. Under process of approval.	-
Meghalaya	MePTCL – 25% balance LOAs will be completed by Aug' 2017. MePGCL – by Aug, 2017 all LOAs	DPR submitted to CEA & NLDC.	DPR to be prepared.

Deliberation of the sub-Committee:

NERLDC informed that as per CERC order against NERLDC petition 133/MP/2014 on 27th November 2017; NERLDC is required to give feedback to CERC on the status of completion. So details of NIT and LOA may please be furnished by all concerned utilities for the same immediately after these activities.

S.E. (C&O), NERPC informed that those schemes whose DPR has been submitted, would be taken up in the Appraisal Committee meeting after Technical Evaluation.

DGM(SO-II),NERLDC requested Assam and Tripura to submit DPR for capacitor bank requirement at the earliest. AGM, SLDC, AEGCL informed that concerned DISCOM officials have already been apprised of the scheme and requirement has to be decided by APDCL only. DGM(SO-II), NERLDC requested the forum to invite DISCOMs for fruitful discussion related to the matters of them. Member Secretary, NERPC concluded that as per grid conditions under voltage is not a problem and requirement if any may be finalized by DISCOMs only.

The Sub-Committee noted as above.

Action: All state utilities/NERPC.

2. Outage of Important Grid Elements:

Name of the Element	Name of Utility	Status
63MVAR Reactor at Byrnihat to be replaced with 80MVAR Reactor	MePTCL	NERLDC informed that after studies it has been found that at least 65MVAR compensation is required at Byrnihat. Forum accordingly requested MePTCL to upgrade to 80MVAR reactor with PSDF funding.
400kV 80MVAR Bus Reactor at Palatana	OTPC	04 Nos bushing to be replaced. Work would be completed by OTPC itself. Tentative completion 31.10.2017.
63 MVAR Line Reactor of 400 kV Balipara - Bongaigaon III line at Bongaigaon	NERTS	Charged on 10.07.2017.
220 kV, 1x31.5 MVAR Bus Reactor at Mokokchung (PG).	NERTS	December'17. To be added in item **C.1.**
132 KV Durllavcherra-Dharmanagar	AEGCL	Sr. Manager, TSECL informed that there is no power flow from Durllavcherra end and this renders the line redundant for Tripura. Forum decided that the actual problem is outage of 132 kV Durlavcherra - Dharmanagar. Item to be dropped.
132 kV Jiribam – Rengpang S/C	MSPCL	Line charged from Jiribam end. To be re-commissioned by Sept'17.
132 kV Mariani (AEGCL) – Mokokchung (DoP, Nagaland) S/C	DoP Nagaland & AEGCL	Line cannot be charged due to low insulation. Outlay of ~ 26Cr yet to be sanctioned. AEGCL to give deadline in next OCC meeting.

132 kV P K Bari – Silchar II	NERTS	Status to be updated.
132 kV Dimapur - Dimapur I	DoP Nagaland	Work in Bay at PGCIL end to be completed by Aug'17.
132 kV Hailakandi - Dullavcherra	AEGCL &TSECL	Line is submerged. Restoration by Oct'17.

GM, NERLDC enquired from NTPC about the status of Unit # I & II. NTPC informed that Unit #I will be brought back to service by 20th August, 2017 and Unit #II by 31st October, 2017.

The forum requested that Unit #II of NTPC be put in the column above for review till the unit is back in service.

The Sub-Committee noted as above.

Action: AEGCL, MePTCL, OTPC, NERTS, NERLDC/NERPC.

3. Furnishing of various data for reliable grid operation:

Data regarding	Status as of 134th OCC
UFR Operation Report	SLDCs of Arunachal Pradesh & Manipur yet to submit for June'17. SLDCs of Assam, Meghalaya, Mizoram, Nagaland & Tripura submitted for June'17
Reporting of Commissioned Elements for Tarang App	SLDCs of Arunachal Pradesh, Assam, Meghalaya & Mizoram yet to submit for June'17. SLDCs of Manipur, Nagaland & Tripura submitted for June'17
DAS output for FRC calculation	OTPC, NTPC, NEEPCO & NHPC** not yet submitted
Questionnaire of Working Group on Hydro(FOLD)	P&ED Mizoram
Report on VDI	SLDCs of Assam, Meghalaya& Tripura submitting regularly. Other SLDCs yet to submit.

DG healthiness report	Revised format circulated by NERLDC. NERTS, NTPC, OTPC, NHPC, DoP, Ar. Pradesh, AEGCL, MSPCL, MePTCL, P&ED, Mizoram, DoP, Nagaland, TSECL yet to submit on monthly basis.
Auxiliary Supply details	Revised format circulated by NERLDC. NERTS (partially), NHPC, NEEPCO, MePTCL and DoP, Nagaland submitted. NERTS (rest), NTPC, OTPC, DoP, Ar. Pradesh, AEGCL, MSPCL, P&ED, Mizoram & TSECL not yet submitted.
Technical & Commercial data for PoC (Q3 2017-18)	Due date for submission of Q3 data is 31.07.2017. TSECL yet to submit YTC data.
Daily Operational Data	All SLDCs.

Date & Time of event	Brief description	Name of ISGS	Whether data submitted
27-July-17 at 10:08 Hrs	On 27-July-17 at 10:08 Hrs Teesta III & Dikchu tripped. Generation loss was around 993 MW.	Palatana, BgTPP, AGTCCPP Extension, Ranganadi	No

**AGTCCPP, AGBPP, Khandong, Kopili and Doyang may please intimate their DAS implementation schedule.*

NERLDC has also requested that Water level, inflow details, discharge quantity & Number of Gate opening (in case of spillage) of Hydro Plants be recorded on a 12 hour basis (2 entries in a day) and to be submitted to NERPC & NERLDC on a monthly basis for proper operational planning

Deliberation of the sub-Committee:

NEEPCO representative informed the following:

- Spillage is being reported thrice a day for Umrong, Khandong and Kopili HEP. For RHEP it is reported twice a day.
- Inflow is reported twice a day except for Doyang, Umrong and Kopili because of many tributaries and no measurement facilities.

The Sub-committee noted as above.

Action: All utilities as above.

B.2. OPERATIONAL PERFORMANCE AND GRID DISCIPLINE DURING JUNE, 2017

As per the data made available by NERLDC, the grid performance parameters for June, 2017 are given below:

NER PERFORMANCE DURING JUNE, 2017

States	Energy Met (MU)		w.r.t. May,17 % inc (+) /dec (-)	Energy Reqr. (MU)		w.r.t. May,17 % inc (+) /dec (-)	% inc (+) /dec (-) of energy reqr vs met. In June,17
	June-17	May-17		June-17	May-17		
Ar. Pradesh	56.26	61.01	-7.79	57.36	62.19	-7.77	-1.92
Assam	789.75	723.12	9.21	823.36	765.00	7.63	-4.08
Manipur	59.67	72.13	-17.27	60.95	73.29	-16.84	-2.10
Meghalaya	154.15	136.77	12.71	154.15	136.77	12.71	0.00
Mizoram	37.09	42.30	-12.32	38.13	43.16	-11.65	-2.73
Nagaland	58.30	63.70	-8.48	59.39	64.75	-8.28	-1.84
Tripura	111.51	120.73	-7.64	114.51	124.52	-8.04	-2.62
Region	**1266.74**	**1219.76**	3.85	**1307.85**	**1269.69**	3.01	-3.14

States	Demand Met (MW)		w.r.t. May,17 % inc (+) /dec (-)	Demand in (MW)		w.r.t. May,17 % inc (+) /dec (-) States	% inc (+) /dec (-) of Demand vs met. In June,17 June-17
	June-17	May-17		June-17	May-17		
Ar. Pradesh	123	145	-15.17	124	145	-14.48	-0.81
Assam	1623	1580	2.72	1744	1649	5.76	-6.94
Manipur	155	161	-3.73	156	163	-4.29	-0.64
Meghalaya	272	304	-10.53	272	304	-10.53	0.00
Mizoram	77	85	-9.41	82	86	-4.65	-6.10
Nagaland	146	131	11.45	147	132	11.36	-0.68
Tripura	268	276	-2.90	268	280	-4.29	0.00
Region	**2387**	**2391**	-0.17	**2499**	**2472**	1.09	-4.48

REGIONAL GENERATION & INTER-REGIONAL EXCHANGE IN MU

Month---->	June-17	May-17
Total Generation in NER (Gross)	1453.218	1111.858
Total Central Sector Generation (Gross)	1032.192	873.920
Total State Sector Generation (Gross)	421.026	295.716
Inter-Regional Energy Exchange		
(a) NER-ER	**6.362**	**42.45**
(b) ER-NER	**352.192**	**242.07**
(c)NER-NR	**375.306**	**102.02**
(d)NR-NER	14.197	92.30
© Net Import	-15.279	189.90

AVERAGE FREQUENCY (Hz)

Month---->	June-17	May-17
	% of Time	% of Time
Below 49.9 Hz	5.94	5.05
Between 49.9 to 50.05 Hz	73.13	72.20
Above 50.05 Hz	17.59	22.75
Average	48.33	49.99
Maximum	50.24	50.27
Minimum	49.72	49.85

NERLDC gave presentation on the grid performance during June'17. NERLDC also highlighted that Daily, Weekly and Monthly Voltage Deviation Report, Frequency Deviation Report and System Reliability Report for June'17 are already mailed to all the constituents for necessary actions. Further it was informed that members may access these reports from NERLDC website under the tab CERC KPI Reports.

The Sub-committee noted as above.

ITEMS FOR DISCUSSION

D. NEW ITEMS

D.1 Generation Planning (ongoing and planned outages)

NEEPCO/NHPC may kindly intimate the availability for hydro stations:

Generating Station	Units running	MW	MU	Reservoir
Khandong	2		27.61	719.55
Kopili-II	1			
Kopili	4		208.64	609.60
Ranganadi	3		Subject to inflow	
Doyang	3		30.00	322.45
Loktak	3		250.00	769.57
AGBPP	-	-	-	-
AGTPP	-	-	-	-

Hydro planning

The outage of other generating stations may be approved considering the present level water level in reservoirs.

Deliberation of the sub-Committee:

The Committee discussed and approved the proposed shutdown by Generating Stations and the same has already been uploaded in the website of NERPC.

D.2 Outage Planning Transmission elements

It was agreed in the 99th OCC meeting that shutdown will be availed only after approval is given by the OCC forum. It was also agreed that deferment/revision of

outages elements other than already approved in OCC will be henceforth put/displayed in the website of NERPC (under Operational Activities/OCC Approved shutdown) as per CERC regulations/ CEA guidelines etc for ensuring smooth & secure grid operation.

Furnishing request of shut down of the element, which was approved by NERPC, by Indenting Agency (ISTS licensees/STUs/Generating Companies) to NERLDC: Planned shutdown approved by NERPC shall be considered for implementation by NERLDC on D-3 basis. If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC on 7th of the month by 10:00 Hr. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

In 124th OCCM, SE(C&O) strongly opined that constituents should inform to NERPC/NERLDC in case shutdown is not avail as approved in the OCC meeting and should mention clearly the reason for not availing the shutdown. The full list of shutdown would be placed in the next OCC by NERLDC so that proper record can be made in future for generating units as well as transmission lines. All constituents endorsed the view of SE(C&O).

In 130th OCCM, Member Secretary opined strongly about non commitments of earlier decision by the constituents and stated that all proposed plan shutdowns and agenda for the next OCC meeting should be sent to NERPC Secretariat latest by 5th day of next month. He directed SE(C&O) that the decision should be strictly adhere to and no shutdowns or agenda will be entertained after that stipulated date.

S.E.(C&O) requested all the utilities to submit shutdown proposals within 5th of the month, and NERLDC to circulate the final compiled shutdown list for comments in advance of the OCCM.

NERLDC during the meeting again highlighted that Planned shutdown approved by NERPC shall be considered for implementation by NERLDC on D-3 basis. If an outage is to be availed on say 10th of the month, the indenting agency would reconfirm to NERLDC on 7th of the month by 10:00 Hr. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC. In case the request for outage is not received within the timelime, it will be assumed that the indenting agency will not avail the shutdown.

AEE, NERPC gave a presentation (**attached at Annexure-D.2)** on some recent developments concerning shutdown planning briefly consisting the following:-

- CERC (Communication System for Inter-State Transmission of Electricity) effective from 01.07.2017 stipulates outage planning for communication system with uninterrupted communication.
- Thus all communication system(s) (for eg. RTU, OPGW link, end equipments etc.) outage affecting the transmission of data or schemes dependent on communication system(s) may be approved in OCC.
- Such shutdown(s) may be approved after exploring all alternative path(s) for uninterrupted communication. Further the conditions under which shutdown of communication system be approved, shall be decided by a Sub-Group under NETeST forum of NERPC.
- Under PDMS project conceived for the entire NER grid, product offerings include Contingency Analysis. This may be used to get Contingency rankings as per latest NERC standard. Thus elements under shutdown which may cause contingencies in the grid would be listed based on severity.

After detailed deliberation the forum approved the suggestions and requested NERPC to convene the sub-group meeting under NETeST forum at the earliest.

The sub-Committee discussed and approved the proposals received from the constituents regarding transmission elements and generating units for July, 2017 - August, 2017 and the same has already been uploaded in website of NERPC.

D.3 Estimated Transmission Availability Certificate (TAC) for the month of March 2017 & April, 2017:

NETC and POWERGRID have submitted the outage data for the month of March & April, 2017. So the attributability of outage of the said elements may please be finalized.

The forum once again advised NETC & POWERGRID to submit data in a time bound manner as decided previously.

The Sub-Committee noted as above.

D.4 Assessment of Total Transfer Capability (TTC), Transmission Reliability Margin (TRM) and Available Transfer Capability (ATC) by SLDC on respective Inter-State Transmission Corridor

Updated PSS/E Base Cases have been **mailed to all the SLDCs on 02.07.17**. All SLDCs are requested to assess the Total Transfer Capability (TTC), Transmission Reliability Margin (TRM) and Available Transfer Capability (ATC) for the month of Aug'17 using these cases, and submit the study cases and results to NERLDC by **25.07.17.**

NERLDC has assessed the state control area wise, state subsystem wise and group of control-area wise TTCs for NER Grid, on behalf of SLDCs of NER. The study results conducted by NERLDC **mailed to all SLDCs on 14.07.17**. SLDCs are requested to check the TTC of their control areas as computed by NERLDC and **give comments, if any, by 25.07.17.** The TTC figures for Aug'17 are as follows:

Name of States	Off Peak TTC in MW		Peak TTC in MW	
	N-0	N-1	N-0	N-1
Arunachal Pradesh	192	187	188	186
Assam	1567	1462	1514	1420
Manipur	324	260	322	250
Meghalaya	277	227	296	246
Mizoram	126	116	126	119
Nagaland	168	68	161	67
Tripura	294	170	296	196

If no comments received from any SLDCs of NER, TTC, ATC & TRM figures of State control area and group of control areas as assessed by NERLDC will be considered as final and may be uploaded on website.

As per discussions in 122nd OCC meeting of NERPC, all SLDCs of NER may host the assessed TTC / ATC / TRM figures on their website for information dissemination.

Deliberation in the meeting

Forum appreciated the efforts made by NERLDC and requested SLDC,Assam to give presentation in next OCC meeting.

NERLDC requested SLDCs of NER to do system study on regular basis. In case of facing any problem while doing system study in PSSE, assistance will be provided to them by NERLDC.

The Sub-Committee noted as above.

Action: All SLDCs.

D.5 Transformer Tap optimization

System study was conducted by NERLDC considering load, generation and network pattern of May, 2017 during Peak & Off Peak periods. Suggested taps position of important transformers in NER for maintaining bus voltages within permissible limit as well as to minimize system losses are attached at Annexure D.21.

In 132nd OCC, NERLDC informed that system study was conducted based on May, 2017 Off Peak & Peak Base Cases and suggested Tap position were given in the report. NERLDC requested all the utilities to go through the report and take necessary actions.

DGM(AM),NERTS informed that changing tap positions in peak and off-peak period is a tedious job and should be avoided as far as possible.

NERLDC informed that system study conducted based on May, 2017 Off Peak & Peak Base Cases indicated high voltage (431 kV) at Byrnihat with present tap setting (D-9). After detailed deliberation it was decided to change the tap position to D-4 for 400/220kV 2x315MVA ICT at Byrnihat as a one-time measure.

Deliberation in the meeting

The forum once again advised MePTCL to change the tap-position as an interim arrangement. MeECL agreed. After detailed deliberation forum decided to drop the agenda item.

The Sub-Committee noted as above.

D.6. Status of Implementation of SAMAST:

DGM(MO), NERLDC made a presentation on SAMAST which means SCHEDULING (S), ACCOUNTING(A), METERING(M), AND (A), SETTLEMENT OF (S) TRANSACTIONS (T) IN ELECTRCITY.

He intimated that Forum of Regulators Technical Committee is regularly following-up the status of implementation of SAMAST in all States across the Country. The implementation would include Metering at intra-State level, AMR scheme to fetch data to SLDC, intra-State scheduling, Open Access web portal, Accounting, Settlement system etc. This would pave way for intra-State ABT implementation. He advised the States to proceed with the activities as listed in SAMAST report (highlighted in ppt) and apply for PSDF funding.

Assam, Tripura and Meghalaya expressed interest in the project. It was clarified that NERPC and NERLDC would provide support to the States on this.

Deliberation in the meeting

DGM(MO),NERLDC informed that few rounds of discussion has taken place with Assam SLDC. They have identified intra-State entities and total number of SEMs required would be frozen shortly. Assam was requested to nominate their representative for SAMAST implementation committee.

- Meghalaya SLDC and MePTCL representatives stated that they would initiate activity for identification of Metering points.
- TSECL representative requested NERPC/NERLDC members to meet TSERC / TSECL higher officials to enable take-off of the project.

The forum felt that since SAMAST would be PSDF funded project it may reviewed under item **B.1(1).**

The Sub-Committee noted as above.
Action: AEGCL/MeECL/TSECL.

D.7. DIVERSION OF 400 KV D/C SILCHAR–BYRNIHAT-AZARA TRANSMISSION LINE BETWEEN LOCATION NO. 573 TO 580 (2.33 KM) TO FACILITATE CONSTRUCTION OF TETELIA – BYRNIHAT RAILWAY LINE OF NORTHEAST FRONTIER RAILWAY (NFR):

The 400 kV D/C Silchar – Byrnihat-Azara line is the part of 400 kV Palatana Transmission System owned by NETC presently being maintained by PGCIL. Silchar – Byrnihat Ckt & Silchar – Azara Ckt of the said line were commissioned on 01.03.2013 and on 27.07.2014 respectively.

However, now to facilitate construction of Tetelia – Byrnihat Railway line of NFR, a section of the line to the tune of 2.33km involving 6 (six) tower locations is to be diverted through a new alignment. During construction of the line in the year 2012, NFR had claimed that both the line and Railway corridor in this section are overlapping each other and hence the line is to be shifted prior to the construction of the Railway line.The permission for possession of land was granted to NFR as per notification u/s 4 (1) in July 2010 by Addll. Dy. Commissioner, Kamrup (Metro), Guwahati.

NETC in the capacity of transmission systems developer finalized the route alignment during 2005-06 after obtaining necessary approvals such as section 68 & section 164 under Electricity Act 2003. Though it was not mandatory, NETC obtained approval from Revenue Authorities of Sonapur during December 2010 much before taking up

the construction activity in the Tetelia-Byrnihat section by NFR and completed the work by April 2012.

Since then, series of meetings were held between NETC & NFR in presence of representative of Govt. of Assam. But till August'2016, no conclusion could be arrived with regard to which party (NETC/NFR) would bear the expenses of the said diversion. Finally, in the meeting convened by Special Secretary (Power) GoI on 26.09.2016, NETC had issued the letter of acceptance for diversion of the line as per their directive.

Accordingly, NETC has placed the LOA for diversion of the line with a target to complete by December 2017. On behalf of NETC, PGCIL is executing the job under Project Management Consultancy (PMC). The total cost of this diversion work will be around Rs. 14.0 Cr.

NETC propose for booking of this expenditure under PoC Mechanism as the line has to be diverted in the interest of the Nation, in general and for the State of Meghalaya in particular.

Deliberation in the meeting

The members agreed to the proposal of NETC and recommended for approval of TCC and NERPC.

The Sub-Committee noted as above.
Action: NERPC.

D.8. Low gas pressure in Stage-2 of 400/220kV Byrnihat S/Sn:

In Special Meeting held on 23.06.17 DGM(AM),NERTS informed that upon visit by NERTS officials to 400/220kV Byrnihat S/Sn it has been found that Stage 2 gas pressure is low and susceptible to direct trip without sounding alarm. The forum requested MeECL to investigate and revert back at the earliest.

Deliberation in the meeting

EE, MePTCL requested NERTS to provide the relay settings and once shutdown is accorded the matter may be investigated. DGM(AM),NERTS reiterated that low SF_6 directly gives DT to Silchar. Sr. Consultant, NETC raised doubts regarding handing over of 400/220kV Byrnihat S/Sn to MeECL. NERTS agreed to look into the matter. S.E.(C&O),NERPC concluded that a team consisting of officials from NERTS/MeECL would jointly visit Byrnihat on 03.08.17 and investigate the issue. Shutdown if any required would granted impromptu.

The Sub-Committee noted as above.

Action: NERTS/MeECL.

D.9. Connectivity to Namsai Node:

The 6th NETeST Forum opined that there is requirement of one ISTS transmission line 132kV Tinsukia to Namsai(PG) keeping in view optical grid connectivity and back up connectivity of power requirement of Arunachal Pradesh. Forum opined the technical study may be done by NERLDC and same may be put up as an agenda in OCC forum.

Deliberation in the meeting

DGM(AM),NERTS opined that ring connectivity is essential for connecting 132kV Namsai as radial link from Ziro upto Namsai is very long and may result in unstable and unreliable power supply. EE, SLDC, DoP Ar.Pradesh also concurred and further informed that 132 kV Rupai-Namsai has been included in the Comprehensive Scheme. The forum referred the matter to the next SCM of NER for detailed discussion and resolution.

The Sub-Committee noted as above.
Action: NERPC.

D.10. Commercial operation of 132kV Passighat – Roing – Tezu

Subsequent to 24 Hours successful trial operation, following elements are put in service for commercial operation:

1. 132kV Passighat – Roing Line w.e.f. 12.06.2017
2. 132kV Roing – Tezu Line w.e.f. 12.06.2017
3. 15MVA, 132/33kV ICT – 1 at Roing w.e.f. 12.06.2017
4. 15MVA, 132/33kV ICT – 2 at Roing w.e.f. 12.06.2017
5. 20MVAR, 145kV Bus Reactor at Roing w.e.f. 12.06.2017
6. 20MVAR, 145kV Bus Reactor at Tezu w.e.f. 14.06.2017

Further, successful test charging and trial operation of following elements also carried out but load flow could not be done due to non-readiness of 33kV downstream by DoP, AP

7. 15MVA, 132/33kV ICT – 1 at Tezu on 11.06.2017
8. 15MVA, 132/33kV ICT – 2 at Tezu on 11.06.2017

Deliberation in the meeting

POWERGRID informed the members about the sequence of operation 132/33kV Roing Sub Station which is as below:

- When 132kV Passighat – Roing Line is charged the voltage at Roing bus becomes more than 140kV and at Passighat it is just below 140kV.

- Then, 20MVAR Bus Reactor at Roing is taken into service and the bus voltage at Roing drops below 120kV.
- In order to avoid considerable rise of voltage 132kV Passighat-Roing Line is charged along with 20MVAR Bus Reactor at Roing.
- When 132kV Roing-Tezu Line is charged, the bus voltage at Roing reduces to around 123kV.
- Finally, when 20MVAR Bus Reactor at Tezu is put in service withdrawing 20MVAR Bus Reactor at Roing, the Bus Voltage at Roing becomes around 130kV.

Thus, for maintaining Bus Voltage at Roing near nominal 132kV the above elements are to be taken in service technically except 2 nos. of 15MVA, 132/33kV ICTs at Tezu as 33kV downstream is yet to be made ready by DoP, AP.

The Sub-Committee noted as above.

D.11. <u>Construction of dedicated 33KV line along with bay at 220KV Mariani (AEGCL) Substation for providing auxiliary power supply to POWERGRID Mariani (New) Substation:</u>

220KV Mariani (New) Substation owned by POWERGRID was commissioned in March'2013 & is a critical substation for evacuation of Kathalguri generation as well as feeding power to Nagaland. Further, the substation is shall be upgraded to 400KV voltage level under NERSS Project shortly. Availability of reliable auxiliary power supply for the station is of utmost importance not only for catering to requirement of the substation (including switchyard & colony) but also for maintaining a healthy protection system.

Accordingly, for facilitating provision of reliable auxiliary power, the work for construction of a 33KV dedicated feeder from Mariani(AEGCL) Substation to POWERGRID Mariani(New) Substation including one 33 KV Bay at Mariani (AEGCL) end was entrusted to AEGCL on deposit work basis. The requisite amount of Rs. 1 Crore for the said work too was deposited to AEGCL in January'2014.

As on date, construction of the 33KV feeder has been completed by AEGCL. However, the 33KV Bay at Mariani (AEGCL) end is yet to be completed despite passage of more than 3 years from the date of deposition of fund, owing to which it has not been possible to draw auxiliary power through the dedicated feeder till date. As a result of this inordinate delay in completion of works related to the dedicated 33KV feeder, POWERGRID Mariani Substation is facing serious crisis on account of unavailability

of reliable auxiliary power in the station. The existing 11KV feeder connected to the station (non-dedicated) too is unreliable since frequent interruption (15 to 20 times a day) is experienced. The matter has been taken up with AEGCL through various correspondences (copies enclosed).

AEGCL is therefore requested to expedite completion of the balance works related to the aforesaid 33KV dedicated feeder on priority so that reliable auxiliary power is made available to the Mariani (new) substation without any further delay.

AEGCL may kindly provide the completion schedule for the above 33KV dedicated feeder.

Deliberation in the meeting

AGM, SLDC, Assam informed that as per informal discussion with AEGCL counterparts the work has been held up due to contractor problem. Further, he informed that he will revert back shortly to resolve the issue.

The Sub-Committee noted as above.

Action: AEGCL.

D.12. Diversion of 132KV Nirjuli-Ranganadi (Nirjuli-Lekhi section) as per requirement of NF Railways.

Diversion of the 132KV Nirjuli-Ranganadi (Nirjuli-Lekhi section comprising of the section from tower loc.134 to loc.23) has been taken up by POWERGRID as per requirement of NF Railways. On completion of the instant re-alignment work, the existing towers in the old route including tower No. 11, from which LILO section connecting 132KV Lekhi Substation of DoP, AP emanates, shall have to be abandoned & dismantled.

Since, with completion of the diversion work, the existing LILO line connecting 132KV Lekhi Substation (DoP, AP) shall get affected, therefore the matter was discussed on earlier occasions in OCC Forum wherein it was deliberated that DoP, AP too shall complete re-alignment/ modification of their LILO line so as to maintain connectivity with Nirjuli & Ranganadi.

The work of diversion of 132KV Nirjuli-Ranganadi line (by POWERGRID) is presently in advanced stage of completion & is expected to be completed by September-2017. DoP, AP is requested to intimate the present status of work pertaining to shifting of the LILO portion for maintaining the connectivity.

Deliberation in the meeting

DGM(AM),NERTS once again reiterated the need for LILO part diversion to be completed urgently by DoP Ar. Pradesh. He stressed that connectivity of Lekhi is being endangered by delaying the work. EE,SLDC, DoP Ar. Pradesh informed that the work has been taken up on an immediate basis by Transmission Division, DoP Ar. Pradesh and would be completed by Dec'17. The forum decided to review the matter monthly under item **C.1.**

The Sub-Committee noted as above.

Action: DoP Ar. Pradesh.

D.13. Requirement of Protection Wall at POWERGRID Ziro Substation on account of Severe Landslide & resultant damage on 10.07.2017:

Severe landslide has taken place within the periphery of 132KV Ziro substation on 10.07.2017 in the aftermath of torrential rain in recent times. As a result, part of the boundary wall (27 m approx.) & 2 No. 33 KV Bays have been substantially damaged. Temporary protection for averting further sliding is meanwhile being provided.

Therefore, as a long term protection measure against landslide, POWERGRID shall provide suitable protection wall at identified stretches of the station.

The agenda is placed for information of the forum.

The Sub-Committee noted as above.

D.14. Restoration of 400KV D/C Silchar-PK Bari TL (charged at 132KV) subsequent to collapse of towers:

The 400KV D/C Silchar-PK Bari TL (charged at 132KV) underwent breakdown on 02.04.2017 on account of collapse of tower at loc. 124,125, 126, 137, 138 & 139 in Karimganj District, Assam in the aftermath of severe cyclone.

Subsequently, one of the circuits (Ckt#1) of the line was temporarily restored through ERS on 07.05.2017.

Meanwhile, permanent restoration of the line too has commenced on war footing. However, the work has been hampered due to continuous rain & resultant flood at entire work site in recent times.

It may also be mentioned that presently the entire work site/adjoining area is in completely inundated condition, posing threat to stability of the temporarily erected ERS towers. In the event of failure of ERS tower during such flooded condition, extensive damage to life & property in the entire area due to electrocution is apprehended. Hence, considering such safety hazard, the line (temporarily charged through ERS) has been disconnected on 10.07.2017. The line shall once again be put in service on recession in water level in the adjoining area.

Further, the job of permanent restoration of the line section, which too has been badly affected due to on-going flood, shall be commenced & completed within an estimated timeframe of two months after recession in flood at work site.

The Sub-Committee noted as above.

D.15. <u>Replacement of battery bank at AGBPP:</u>

Existing 48V DC battery bank for PLCC at AGBPP are installed and maintained by PGCIL which are in service more than twenty years, hence needs immediate replacement by POWERGRID.

<u>Deliberation in the meeting</u>

After detailed deliberation the forum directed NEEPCO to replace the battery bank on its own. The Sub-Committee decided to drop the agenda item.

The Sub-Committee noted as above.
Action: NERTS.

D.16. Updated Operating Procedures of NER July 2017 (Draft):

Operating Procedures of NER July 2017 has been updated and e-mailed to regional entities of NER and also available in NERLDC website.

Power utilities of NER are requested to send comment and suggestion for this document by 30th June'17. This document will be finalized by 20th July'17.

The document is password protected. Password may be collected from SOII department of NERLDC.

No comment has been received by NERLDC from Power Utilities of NER till date.

Deliberation in the meeting

NERLDC informed that Operating Procedures of NER July 2017 was finalized by 20th July'17 and informed to all constituents of NER. This document is available in NERLDC website.

NERLDC requested all the SLDCs to update their Operating Procedures at the earliest. NERLDC also requested constituents of NER to submit Operating Procedures of HVDC, Substations and Generating Stations.

The Sub-Committee noted as above.

D.17. Updated Power Map of NER July 2017 (Draft):

Power Map of NER July 2017 has been updated and e-mailed to regional entities of NER and available in NERLDC website. It will cover all the elements under operation, execution & planning stage.

Power utilities of NER are requested to submit comment and suggestion and check the line length, capacity etc., for this document by 30th June'17.

Views/comments were received from some power utilities of NER.

The final version of compiled document on Power Map of NER July 2017, is made available in pdf format in NERLDC website (www.nerldc.org) with password protection. Password may be obtained from SO-II Department, NERLDC.

Deliberation in the meeting

NERLDC informed that Power Map of NER July 2017 was finalized by 15th July'17 and informed to all constituents of NER. This document is available in NERLDC website.

NERLDC informed the forum that Power Map is being prepared for elements under construction and the same will be forwarded for validation.

NERLDC also informed the forum that Single Line Diagrams (SLDs) of communication system under operation & execution, showing the location of SEMs will be prepared. NERLDC requested constituents of NER to furnish the data/information as per format for preparation of these SLDs.

The Sub-Committee noted as above.

D.18. <u>Web portal on Weather Information for Power Sector:</u>

MoU was signed between POSOCO & IMD on 18.05.15 to have an effective weather information interface exclusively for Power System Operation. In pursuance to this MoU, dedicated web portals for all the 5 regions have been developed jointly by IMD & POSOCO. These web portals contain lot of information related to weather forecast, real time & past data related to various locations in all the regions.

Weather Website of North Eastern Region has been made operational from 29th April 2017. The link of the website is http://amssdelhi.gov.in/NERLDC/MAIN.html. The same is also available in WEATHER tab in NERLDC website.

The Website covers weather related information of all the Seven States of North Eastern Region. Summarized contents of the Website are follows:

1. Regional Summary: Regional Forecast, Weather Bulletin, Daily and Weekly Weather.
2. Now-cast for Guwahati, Dibrugarh, Jorhat, Dhubri, Silchar & North Lakhimpur
3. Warning: District Level, State Level & Cyclone
4. Mateogram @ 3 hourly, 10 days forecast for 33 locations in the Region: Assam-19, Arunachal Pradesh -4, Meghalaya-3, Nagaland-3, Tripura-2, Manipur and Mizoram 1 each.
5. Radar Products for two Locations updated @10 Minutes: Agartala & Mohanbari
6. Satellite Image updated @ 30 minutes from INSAT 3 D.

With better understanding of this data, various utilities in the concerned region can equip themselves with better preparedness and improved operational planning, thereby enhancing the reliability of power system operation. For interpretation of weather data available on the web portal to derive the information and knowledge for decision making in the day to day operation of Power system, series of interactive sections with IMD would be required.

As OCC meetings are held on monthly basis and representatives from all SLDCs, constituents and utilities attend the same, these interactive sections with IMD representative in conjunction with OCC meeting would be highly beneficial.

Deliberation in the meeting

A detailed presentation was given by Scientists from IMD explaining all the features of the application and how it may be used for predicting load fluctuations depending on the weather. S.E.(C&O),NERPC appreciated the efforts of IMD and requested all the SLDCs to make optimum use of the application.

NERLDC requested all the utilities to go through the website and give their comments to NERLDC so that the same can be forwarded to IMD for improvement.

The Sub-Committee noted as above.

D.19. Post-Monsoon & Pre-Monsoon Disaster Management Plans of power utilities:

Crisis in power sector is an event of acute danger which can cause sudden disruption of power supply. Objectives of the Disaster Management Plan is to improve the preparedness to meet any contingency, reduce the response time in organizing the assistance, identify major resources: man power, materials & equipment needed to make the plan operational and optimize the use of the combined resources. The Disaster Management Act enacted in Dec05 has assigned the role/responsibilities to various Ministries/Departments for co-ordinated approach with other organizations.

CEA vide letter no. CEA/PLG/PSLF/15/Crisis/356-367 dated 12.06.2017 requested POSOCO to submit pre-post monsoon disaster management plans of PSUs, status of mock drill & flushing out of reservoir and details of review of Disaster Management Plan on an urgent basis as this is a parliamentary matter. NERLDC vide email circulated the formats for furnishing these details to all PSUs. Format for furnishing data is attached as Annexure II. Information from NHPC & State Power Utilities are not received till date.

It is requested to NHPC and State Utilities to furnish the pre-post monsoon disaster management plans, status of mock drill & flushing out of reservoir and details of review of Disaster Management Plan at the earliest to NLDC/NERLDC.

The Sub-Committee noted as above.

D.20. Load Forecasting Methodology

It has been observed that the deviation is high for day-ahead load forecast done by state power utilities from actual demand met. This error is reflected in the deviation of drawl of state utilise from the regional grid. To find out the reason for this gap, it is necessary to know the approach/process behind the load forecast.

Deliberation in the meeting

DGM(MO),NERLDC informed that during workshop conducted by NERPC on 19.01.17 detailed presentations on methodologies adopted by different SLDCs were presented. The same is once again being attached at **Annexure -D.20.** The Sub-Committee decided to drop the agenda item.

The Sub-Committee noted as above.

D.21. False DC by AGBPP:

It is seen repeatedly that whenever RRAS up regulation is implemented for AGBPP, they starts reducing their DC thereby creating problem implementing RRAS.(Ref 1. NERLDC msg 30th June @ 1637hr 2. NERLDC msg 6th July'17 @ 1406hr. and so on)and it is regularly happening. As per IEGC regulation 6.4, mis-declaration of plant DC is wrong practise and can be penalised.

Forum may discuss the issue and give direction to AGBPP to avoid such mis-declaration of DC.

(IEGC Cl 6.4.18: It shall be incumbent upon the ISGS to declare the plant capabilities faithfully, i.e. according to *their best assessment. In case, it is suspected that they have deliberately over/under declared the plant capability contemplating to deviate from the schedules given on the basis of their capability declarations (and thus make money either as undue capacity charge or as the charge for deviations from schedule), the RLDC may ask the ISGS to explain the situation with necessary backup data.)*

Deliberation in the meeting

Sr. Engineer, NERLDC stated that giving False DC amounts to gaming and attracts serious penal provisions. He pointed out that among many instances, on 30.06.17 and 06.07.17 AGBPP had revised DC after RRAS UP instructions were issued. Sr. Manager, NEEPCO informed that the matter has been addressed. The forum strongly reprimanded NEEPCO and advised it to desist from such actions in future.

The Sub-Committee noted as above.

D.22. Charging of new elements without proper communication and telemetry by Nagaland:

132 kV Doyang-Wokha line LILOed at Sanis sub-station (date unknown). On 07.07.17 Nagaland requested to charge 132 KV Doyang-Wokha line and accordingly permission given to charge the line from Doyang. After charging the line there was frequent oscillation and jerk in Doyang machine and the machine was about to trip.(Attached Mail from Doyang dated 07.07.2017).Also there was no telemetry in Sanis and Wokha S/S.No voice communication is also not available with Sanis and wokha.

(IEGC 4.6.2: *Data and Communication Facilities: Reliable and efficient speech and data communication systems shall be provided to facilitate necessa1y communication and data exchange, and supervision/control of the grid by the RLDC, under normal and abnormal conditions. All Users, STUs and CTU shall provide Systems to telemeter power system parameter such as flow, voltage and status of switches/ transfo1mer taps etc. in line with interface requirements and other guideline made available by RLDC.*)

So forum may discuss and issue suitable guidelines to Nagaland and others also to follow the same.

132 KV Kohima-Karong-Imphal line: Presently 132 kV Kohima-Karong line is service and Karong –Imphal is also healthy. So 132 kV Kohima-Karong-Implal complete line may be kept in service to make alternate parallel corridor for 132 kV for 132 kV Dimapur-Implal. This arrangement will give stability in the Manipur /Nagaland system. With implementation of SLDC and new SCADA/EMS system in Manipur and Nagaland we hope reliable telemetry and voice communication will be available from Kohima, Karong and Imphal.

Deliberation in the meeting

EE (Trans.), DoP Nagaland informed the members that such incidences would not recur in future. Forum felt that 132kV Karong-Kohima line should be kept in service at all times.

The Sub-Committee noted as above.

It is observed that 132 kV Daporizo-Along-Pasighat-Tezu-Namsai line is tripping everyday (Tripped on 06.07.17 @ 1033 hrs, on 07.07.17 @ 0915 hrs, on 09.07.17 @ 1555 hrs,on 11.07.17 @ 1250 hrs, on 13.07.17 @ 0516 hrs).It is creating problem in Ranganadi/Ziro. Also as per CERC guide lines all these events are GD-1 category

(Full S/S outage). So Arunachal Pradesh needs to check the line thoroughly before requesting for permission for charging.

Also telemetry/voice communication is not available from these stations. As per IEGC it is very important to have telemetry and voice communication.
Forum may discuss and issue guidelines to AP/POWERGRID.

Deliberation in the meeting

DGM(AM),NERTS once again reiterated that the long radial 132 kV Daporizo-Along-Pasighat-Tezu-Namsai line should be connected in ring to avoid GD-I incidences. EE, SLDC, DoP Ar. Pradesh thanked the members for their concern and also stated that this radial line is a lifeline for a large number of consumers in Ar. Pradesh. For telemetry and voice communication upto NERLDC in the interim arrangement the forum referred the matter to next NETeST meeting (Radial connectivity please refer to discussion in item **D.9**)

The Sub-Committee noted as above.

Action: NERPC.

D.23. Online submission of daily data:

NERLDC has developed as in house web based reporting software. Formats for filling the online data have been sent to Assam, Meghalaya & Tripura, all ISGS generators and CPCC NERTS.

Assam, Meghalaya and Tripura started giving some data but all Inter-state link wise we need data(only MWH on daily basis)which we are not getting. So all are requested to give these data online to NERLDC everyday.

The Sub-Committee noted as above.

D.24. Dedicated voice communication:

Dedicated voice communication and availability is one of the key requirements for efficient grid management. But it is observed that whenever we try to talk to SLDCs always it shows busy. We have intimated POWERGRID to resolve this problem but still it is not solved but still it is pending.

Most of the PG stations are connected through only one dedicated voice communication. Minimum two no of dedicated link needs to be done at the earliest.

Forum may discuss and time bound target may be fixed to fulfil the above requirement. Also 400 KV stations, HVDC station, SLDCs need 4 no of dedicated voice communication.

Following S/S either does not have link or links are not working.

1. PALATANA (Biggest Gen in NER)-No dedicated voice link.
2. 400 kV SILCHAR PG Station.-No dedicated voice link.
3. SM Nagar (International link)-No dedicated voice communication with RLDC.
4. MONARCHAK Gen: No dedicated voice link with RLDC.
5. SALAKATI (Inter Regional PG station)No dedicated voice link.
6. 400 kV BYRNIHAT: No dedicated voice link with RLDC/SLDC.
7. 400 kV Azara: No dedicated voice link with RLDC.

Following S/S links are not working.

1. Itanagar-23640151
2. Jiribam-23640130
3. Kathalguri-23640154
4. Ranganadi-23640119
5. Kolasib-23640111

Deliberation in the meeting

After detailed deliberation forum referred the matter to next NETeST meeting of NERPC.

The Sub-Committee noted as above.
Action: NERPC.

D.25. Important RTUs are not working:

1. 400 kV BALIPARA out since 26.06.17: Central NER Grid visibility lost.
2. 132 kV ITANAGAR: Effect: Realtime drawal of AP is not coming. Visibility of AP grid lost. Communication link problem.
3. 132 kV HAFLONG.
4. KHANDONG
5. KOPILI
6. RANGANADI: Completely un-stable. Communication problem. Team needs to be formed involving PG and RHEP and solve the problem within fixed time.
7. KOLASIB
8. ROING: Newly installed but not coming.
9. TEZU: Newly installed but not coming.

Deliberation in the meeting

After detailed deliberation forum referred the matter to next NETeST meeting of NERPC.

The Sub-Committee noted as above.

Action: NERPC.

D.26. Simplification of Operational Matters pertaining to 132kV Pasighat - Roing:

The recently commissioned 132 Kv line from Pasighat to Roing at present serves no purpose to any other constituents. At the both ends at Pasighat and Roing the beneficiaries are only Arunachal Pradesh. It injects its own power at Pasighat and draws at Roing. Any kind of activities in operational matters pertaining to this segments benefits or affect the state of Arunachal Pradesh only. Therefore the Grid Control activities pertaining to that element may be simplified so that during the emergency nature of Shutdown and Withdrawal becomes easier and response to such situation can be attended in a faster and efficient manner. In the present scenario for every operational purpose, Pasighat-Roing Transmission System being a part of NERTS reports to NERLDC and in return NERLDC seek consents from the SLDC Arunachal Pradesh and again SLDC Arunachal Pradesh Seek further consent from transmission utilities (DoP) in a very long and tortuous manner which so much of inconveniences.

Therefore it is suggested that a simplified mechanism is adopted to meet the ends in a faster and convenient way. Such a mechanism could be that for all approved / emergency shutdowns and normalization of NERTS, for that portion of the systems, reports to SLDC Arunachal Pradesh directly instead of reporting to NERLDC. All such actions, on the part of SLDC Arunachal Pradesh, shall inform NERLDC of every action taken for records.

Deliberation in the meeting

EE, SLDC, DoP Ar. Pradesh stated that for the long radial line 132kV Ziro-Daporizo-Along-Pasighat-Roing-Tezu-Namsai shutdown coordination is a big issue. Not only SLDC has to manage getting charging code from NERLDC but also Transmission Division has to be communicated the same, which rarely coincides. This might result in delay of maintenance work or they being hampered altogether. In this event, EE, SLDC, DoP Ar. Pradesh suggested that after approval in OCC/NERPC the coordination in shutdown may be carried out by SLDC. The forum felt that this

suggestion was not feasible keeping in mind emergencies and further ramifications. GM, NERLDC suggested that improving voice communication among all the stations and SLDC/RLDC may solve the problem to a great extent. The forum welcomed the suggestion of GM, NERLDC and referred the matter of communication to next NETeST meeting of NERPC.

The Sub-Committee noted as above.

Action: NERPC.

D.27. Opening of 132 kV Palatana-Udaipur- unilaterally by Tripura:

Frequently it is observed that Tripura keeps open the 132kV Palatana-Udaipur line without any information to NERLDC and Palatana. The line is connected to biggest gas based NER generator of Palatana and opening of this line unilaterally creating threat to the system security of NER Grid. Even we understand that it is important grid element and any S/D or opening requires permission from NERLDC.

Forum may discussed and issue suitable guidelines.

Deliberation in the meeting

Forum reproached TSECL for not adhering to grid code and not maintaining grid discipline. Sr. Manager, OTPC also informed that SLDC, Tripura is not aware of the grid parameters in real time overloading the ICT inspite of warnings given by OTPC Control Room beforehand. Sr. Manager, TSECL informed that the shortcomings would be addressed and such incidences would not recur in future.

The Sub-Committee noted as above.

Action: TSECL.

D.28. Frequent disturbance in Tripura system due to reduced grid security:

Number of disturbance in Tripura system increased due to following reason.

1. 132 kV Silchar-PK Bari both the lines out since long.(Line-1 out from 10th July'17,Line-2 from 02nd April'17)
2. Links are being kept open by Tripura without intimation.(On 19.07.17, 132 kV SM Nagar-Agartala I & II,132 kV Agartala- Bodhjungnagar,132 KV Agartala-RCN-II lines were open and 132 kV Ambassa-Gamaitilla line was S/D and no information to NERLDC. At 1331 hrs 132 kV RCN-Kumarghat and RCN-Agartala-II tripped and Tripura grid collapsed, RCN (ISGS), Monarchak, Rokhia tripped.)
3. 132 kV Kamalpur-Ambassa line always remains open at Ambassa.

It is gathered that Palatana generation will be out from 19th August for 20 days and during that time if all these loops remains open stability of Tripura system will come down drastically.

Deliberation in the meeting

Sr. Manager, TSECL informed that the shortcomings would be addressed and such incidences would not recur in future.

The Sub-Committee noted as above.
Action: TSECL.

D.29. Update on NERSS-II(B) & V awarded under TBCB:

The following transmission system associated with North Eastern Region Strengthening Scheme were discussed in 4th, 5th and 6th SCMPSP of NER and was agreed to be implemented through TBCB route in 35rd Empowered Committee held on 14th September 2015,

A. NERSS II Part B

i. Biswanath Chariyali (POWERGRID) – Itanagar 132kV D/c line.
ii. 2 nos. 132kV line bays at Itanagar for termination of Biswanath Chariyali (POWERGRID) – Itanagar 132kV D/c line.
iii. LILO of one circuit of Biswanath Chariyali (POWERGRID) – Itanagar 132kV D/c line at Gohpur (AEGCL)
iv. Silchar (POWERGRID) – Misa (POWERGRID) 400kV D/c Line.

B. *NERSS -V*

i. Establishment of 400/132kV, 2 X 315MVA S/s at Surajmaninagar
ii. Establishment of 400/132kV, 2 X 315MVA S/s at P.K. Bari
iii. Surajmaninagar – P.K. Bari 400kV D/C line
iv. 2 no. 400kV line bays at Palatana GBPP switchyard for termination of Palatana-Surajmaninagar 400kV D/c line
v. AGTPP (NEEPCO) – P.K.Bari (TSECL) 132kV D/c line with high capacity HTLS conductor
vi. 2 no. 132 kV line bays at P.K.Bari (TSECL) S/s for termination of AGTPP (NEEPCO) – P.K.Bari (TSECL) 132kV D/c line.

Deliberation in the meeting

VP, Sterlite Power informed that the above projects have been awarded to the firm recently, and latest status would be updated periodically to the forum. He informed that their target to complete the projects would be July, 2019 against the scheduled completion date of July, 2020.

The Sub-Committee appreciated the efforts of Sterlite and agreed in principle as it is benefited for NER States. The same would be put up to next TCC/NERPC meetings for endorsement.

D.30. Use of Multi-circuit towers and Monopoles:

1. **Use of Multi Circuit Towers** – There are two lines one is 400kV D/C Surajmaninagar - P.K. Bari Transmission line which is 92 kms and other is 132kV D/C AGTPP (NEEPCO) – P.K. Bari (TSECL) Transmission line which is 82 kms. These two lines are parallel to each other in forest, so we want to implement Multi circuit Towers in forest area by merging these two lines for approx. 60 kms (M/C Start point to M/C End Point). The 132kV D/C will be kept in lower side and 400kV D/C in the upper side of the tower. The usage of multi circuit towers will reduce the Forest area and there would be a substantial reduction in the number of trees to be felled in Forest Portion. The details are as:-

Description	SMN-P.K.Bari 400kV	NEEPCO-P.K. Bari 132	Total Forest Area details while Laying Single Lines	NEEPCO-SMN-Pkbari 400kV/132kV Multi Circuit Line	Saving in Forest area / Tree Cutting while using Multi Circuit Transmission Line in Forest Portion.
	Line Length:	Line Length:	Line Length:	Line Length:	Line Length:
	Tripura	Tripura	Tripura	Tripura	Tripura
Length of Transmission Line in K.M	92	82	174	115	59
Forest Length in K.M	32.5	41	73.5	34.5	39.0
Line Corridor in Meter	46	27		46	
Forest Area (In hac)	150	111	261	159	102
Total Trees Enumerated	89,700	66,420	1,56,120	95,220	60,900

on Sample Basis @ 600 Tree/Hectare					
No. of Forest Proposals Submissions	1	1	2	2	

In doing so around 60,900 trees would be saved from felling and there would be a reduction in Forest area required for diversion by 102 Ha.

2. **Use of Monopoles** – 132kV D/C Biswanath Chariyalli (PowerGrid) – Itanagar Transmission line is of 69kms, out of which we proposed to install Monopoles in the forest Area of Arunachal Pradesh for approximately 14 kms.

The Sub-Committee appreciated the efforts of Sterlite and agreed in principle as it is benefited for NER States. The same would be put up to next TCC/NERPC meetings for endorsement.

ADDITIONAL AGENDA ITEM:

D.31. Share Allocation from CSGSs' to POWERGRID:

S.E. (C&O), NERPC informed that as per communication received from CEA; it has been intimated that PGCIL made a request for allocation of 41MW from one or more CGS to meet auxiliary consumption of its AC Sub-stations in the country. They have proposed region-wise allocation for their sub-stations. CEA have requested the views of RPCs.

Deliberation in the meeting

Members opined that the matter is concerned with Distribution wing and requested NERPC to discuss in next TCC/RPC meeting.

The forum also requested NERPC that many issues are pertaining to Generation and Distribution and hence from now onwards members from Distribution and Generation wings of the NER States should attend the meeting for resolving the issues. Members requested NERPC to highlight the same in TCC/NERPC Meetings.

The Sub-Committee noted as above.

D.32. Sale of URS in DAM as per IEGC (Fifth Amendment) Regulations:

Sr. Manager, OTPC gave a presentation (attached at **Annexuxe-D.32**) on sale of URS as per latest IEGC Regulations in the Day Ahead Market. He expressed ease of sale in DAM compared to TAM. He also praised Nagaland for giving consent swiftly which has realised into gains amounting to ₹ 613450/- (June-July'17) for DoP Nagaland. The forum requested all beneficiaries to follow suit as the arrangement is mutually beneficial.

The Sub-Committee noted as above.

D.33. Update regarding PDMS:

S.E.(C&O),NERPC informed the forum that upon consultation with NPC and PSDF Secretariat it is imperative that proposal for commissioning of Protection Database Management System (alongwith all other Analysis modules) be approved in TCC/RPC. Further, he informed that a team from NERPC, NERLDC, NERTS may be constituted to prepare a DPR and finalize the same, get its approval from TCC/ NERPC before sending to NPC/NLDC.

The forum unanimously concurred upon the urgent requirement of the system and referred the matter to TCC/RPC.

The Sub-Committee noted as above.

D.34 C-DAC

SE(C&O) informed that 40% of the fund has been released to C-DAC for installation of the software/hardware for 6 (six) NER States except Meghalaya and C-DAC has intimated that the materials would be dispatched soon to 6 SLDCs, one each for NERPC & NERLDC.

The forum also requested NERPC that C-DAC should highlight the scheme in next OCC/MM before implementation of the scheme.

The Sub-Committee noted as above.

Date & Venue of next OCC meeting

It is proposed to hold the 135th OCC meeting of NERPC on second week of August, 2017. However, the exact date and venue will be intimated in due course.

The meeting ended with thanks to the Chair.

*****

Annexure-I

List of Participants in the 134th OCC Meetings held on 28.07.2017

SN	Name & Designation	Organization	Contact No.
1.	Sh. N. Perme, EE(E), SLDC	Ar. Pradesh	-
2.	Sh. Manoranjan kalita, DGM (SLDC)	Assam	07002949272
3.	Sh. Dipesh Ch. Das, DGM (LDC)	Assam	09954110254
4.	Sh. A.N. Dev Choudhury, AGM, APDCL	Assam	09854120791
5.	Sh. Uday S. Nath, AGM	Assam	-
6.	Sh. B. C. Borah, AGM (SLDC)	Assam	09435119248
7.	Sh. Paragjyoti Kalita, DM, APDCL	Assam	09435301799
8.	Sh. S. Kennedy, AM, MSPCL	Manipur	07085464547
9.	Th. Sushanta Singh, DM, MSPCL	Manipur	09402404857
10.	Sh. H.F. Shangpliang, SE(Gen)	Meghalaya	09863315562
11.	Sh. B. Wankhar, EE (MO), SLDC	Meghalaya	09436105914
12.	Sh. B. Narry, EE (Generation-I)	Meghalaya	09436111550
13.	Sh. B. Nikhla, EE, SD MePTCL	Meghalaya	09436314163
14.	Sh. T. Gidon, EE (SLDC)	Meghalaya	09774479956
15.	Sh. C.W. Chen, AE (SLDC)	Meghalaya	09803093311
16.	Sh. Lalbiaksanga, SE (SLDC)	Mizoram	09436140932
17.	Sh. K. Duhsanga, EE, SLDC	Mizoram	08118910161
18.	Sh. Wabangmeren Jamir, EE (Trans.)	Nagaland	09856052256
19.	Sh. Debabrata Pal, Sr. Manager (Comml.)	Tripura	09436500244
20.	Sh. Joypal Roy, Sr. Manager (E/M)	NEEPCO	09435577726
21.	Sh. Sundar Moni Mohan,Dy. Mgr (E/M)	NEEPCO	08729907466
22.	Sh. T.S. Singh, GM, NERLDC	NERLDC	-
23.	Sh. R. Sutradhar , DGM (MO)	NERLDC	09436302714
24.	Sh. Ankit Jain, Sr. Engineer (SO-I)	NERLDC	09436335381
25.	Sh. A. Mallick, DGM, SO-II	NERLDC	09436302720
26.	Sh. Palash Jyoti Borah, Engineer, SO-II	NERLDC	08761093397
27.	Sh. Sourav Mandal, Engineer, SO-I	NERLDC	09402102354
28.	Smt. Momai Dey, Sr. Engineer, SO-II	NERLDC	09436302716
29.	Sh. P. Kanungo, DGM (AM)	PGCIL	09436302823

30.	Sh. Mohammad Arif, Manager (E)	NHPC	09932025993
31.	Sh. Narendra Gupta, Sr. Manager	OTPC	09774233426
32.	Sh. Ratan Singh Basnet, Asst. Manager	NETC	08811072489
33.	Sh. Dilip Kr. Sarma, Sr. Consultant	NETC	09471001032
34.	Sh. E. Ngullie, DGM (O)	NTPC	09435139531
35.	Sh. Ashit Roy Chowdhury, Manager (O)	NTPC	09435027019
36.	Sh. Sachin Deshpande, Head (O&M)	Sterlite Power	08966903047
37.	Sh. T.A.N. Reddy, V.P	Sterlite Power	09310490976
38.	Sh. T.K. Sinha, AM	Sterlite Power	08889922005
39.	Sh. Narrottam Chakraborty, CM	Sterlite Power	07896022335
40.	Sh. Atul Kumar Singh, SC-B	IMD	09005334600
41.	Sh. Sunit Das, SC-D	IMD	07896043788
42.	Sh. P.K. Mishra, MS	NERPC	-
43.	Sh. B. Lyngkhoi, Director/S.E (C&O)	NERPC	09436163419
44.	Sh. S. Mukherjee, AEE	NERPC	08794277306

SHUTDOWN PLANNING FOR NER GRID -NERPC

PRESENT PRACTICE

CERC(COMMUNICATION SYSTEM FOR INTER-STATE TRANSMISSION OF ELECTRICITY) REGLATIONS, 2017

- W.e.f 01.07.2017
- Reg.7.3(iv) "*The RPC Secretariat shall be responsible for outage planning for communication system in its region. RPC Secretariat shall process outage planning such that uninterrupted communication system is ensured.*"

UNINTERRUPTED COMMUNICATION REQUISITES

- Round the clock Availability of real time data of all nodes upto 132/66/33 kV at RLDC.
- Identifying alternate paths(at least two?) for all RTUs except those in radial path.
- Outage of Communication link due to OPGW stringing/ end equipment(s) maintenance or replacement may be approved in OCC only.

Sl.	Name of Element	Jun-17	Jul-17	Time	Remarks
		5 6 11	1 2 3 4 5 7 8 9 11		
1	COMMUNICATION RELATED SHUTDOWN				
	132kV Transmission lines				
1	132kV BC Dimapur - Imphal TL			08:00 to 16:00	For the erectn. of existing Tower & erection of new tower at Loc. No.326 including erect. to 326 (continuous 8 D)
2	132kV Gelephu - Jiribam TL			08:00 to 16:00	AMP of Bay equipments at Gelephu End & Infringement cleaning at loc. 80 , 120 & 125 .
3	132kV D/C Silchar Imphal # 1			08:00 to 16:00	For shifting of tower including Tower erection,Destringing,Restringing & Dismantling etc (DC+0) & Loc.No.285B/0 (DD+0) . (Already approved S/D in 132nd OCC. Rescheduled)
4	132kV D/C Silchar Imphal # 2			09:00 to 16:00	For shifting of tower including Tower erection,Destringing,Restringing & Dismantling etc (DC+0) & Loc.No.285B/0 (DD+0) . (Already approved S/D in 132nd OCC)
5	132kV D/C Silchar Imphal # 1			09:00 to 16:00	For shifting of two towers (tower no. 381 and dead end tower) in the substation to unob work in 400kV Imphall Substation (under NERSS-IV scheme upgradation work).
6	132kV D/C Silchar Imphal # 2			09:00 to 16:00	For shifting of two towers (tower no. 381 and dead end tower) in the substation to unob work in 400kV Imphall Substation (under NERSS-IV scheme upgradation work).
7	132 KV S/C Badarpur - Kumarghat TL			08:00 to 16:00	CT Tan delta testing , attending hot spot observed in thermovision scanning ,jumper tig 333L (Already approved S/D in 132nd OCC)
8	132 KV Badarpur - Silchar # 1 TL			08:00 to 16:00	For clearing of high rise trees on rightR side which pose potential threat to the Line.

In Remarks column alternate path upto RLDC will be mentioned.

PDMS(PROTECTION DATABASE MANAGEMENT SYSTEM)

- Along with the database following other offerings have been proposed by M/s PRDC:

1. Short circuit,
2. transient stability
3. contingency analysis
4. Grid Disturbance simulation

Of these Contingency Analysis and GD Simulation may be used for Shutdown Planning.

	Power Flow Analysis
26.	Solution methods - Gauss-Seidel, Newton-Raphson, Fast-DeCoupled, current Injection
27.	Zone / Area wise modeling & control, islanding.
28.	Simulating the study mode in dynamic changes in the network
29.	Modeling loads as constant power, constant current, constant impedance or any combination of these.
30.	Determine MVAR Compensation.
31.	Contingency analysis ranking.
32.	Slack Bus Concept uses Gauss - Seidel, Newton - Raphson, Fast-DeCoupled techniques
33.	Frequency dependent Load flow uses Fast-DeCoupled technique. The options availsble are

Steady State & Stability:

a. The System shall remain stable. Cascading and uncontrolled islanding shall not occur.
b. Consequential Load Loss as well as generation loss is acceptable as a consequence of any event excluding P0.
c. Simulate the removal of all elements that Protection Systems and other controls are expected to automatically disconnect for each event.
d. Simulate Normal Clearing unless otherwise specified.
e. Planned system adjustments such as Transmission configuration changes and re-dispatch of generation are allowed if such adjustments are executable within the time duration applicable to the Facility Ratings.

Steady State Only:

f. Applicable Facility Ratings shall not be exceeded.
g. System Steady state voltages and post-Contingency voltage deviations shall be within acceptable limits as established by the Planning Coordinator and the Transmission Planner.
h. Planning event P0 is applicable to steady state only.
i. The response of voltage-sensitive Load that is disconnected from the System by end-user equipment associated with an event shall not be used to meet steady state performance requirements.

Stability Only:

j. Transient voltage response shall be within acceptable limits established by the Planning Coordinator and the Transmission Planner.

Category	Initial Condition	Event [1]	Fault Type [2]	BES Level [3]	Interruption of Firm Transmission Service Allowed [4]	Non-Consequential Load Loss Allowed
P0 No Contingency	Normal System	None	N/A	EHV, HV	No	No
P1 Single Contingency	Normal System	Loss of one of the following: 1. Generator 2. Transmission Circuit 3. Transformer [5] 4. Shunt Device [6]	3Ø	EHV, HV	No [7]	No [7] [8]
		5. Single Pole of a DC line	SLG			
P2 Single Contingency	Normal System	1. Opening of a line section w/o a fault [7]	N/A	EHV, HV	No [7]	No [7]
		2. Bus Section Fault	SLG	EHV	No [9]	No
				HV	Yes	Yes
		3. Internal Breaker Fault [9] (non-Bus-tie Breaker)	SLG	EHV	No [7]	No
				HV	Yes	Yes
		4. Internal Breaker Fault (Bus-tie Breaker) [9]	SLG	EHV, HV	Yes	Yes
P3 Multiple Contingency	Loss of generator unit followed by System adjustments [6]	Loss of one of the following: 1. Generator 2. Transmission Circuit 3. Transformer [5] 4. Shunt Device [6]	3Ø	EHV, HV	No [7]	No [7] [8]
		5. Single pole of a DC line	SLG			
P4 Multiple Contingency (Fault plus stuck breaker [10])	Normal System	Loss of multiple elements caused by a stuck breaker [10] (non-Bus-tie Breaker) attempting to clear a Fault on one of the following: 1. Generator 2. Transmission Circuit 3. Transformer [5] 4. Shunt Device [6] 5. Bus Section	SLG	EHV	No [7]	No
				HV	Yes	Yes
		a. Loss of multiple elements caused by a stuck breaker [10] (Bus-tie Breaker) attempting to clear a Fault on the associated bus	SLG	EHV, HV	Yes	Yes
P5 Multiple Contingency (Fault plus relay failure to operate)	Normal System	Delayed Fault Clearing due to the failure of a non-redundant relay [11] protecting the Faulted element to operate as designed, for one of the following: 1. Generator 2. Transmission Circuit 3. Transformer [5] 4. Shunt Device [6] 5. Bus Section	SLG	EHV	No [7]	No
				HV	Yes	Yes
P6 Multiple Contingency (Two overlapping singles)	Loss of one of the following followed by System adjustments [6]: 1. Transmission Circuit 2. Transformer [5] 3. Shunt Device [6] 4. Single pole of a DC line	Loss of one of the following: 1. Transmission Circuit 2. Transformer [5] 3. Shunt Device [6]	3Ø	EHV, HV	Yes	Yes
		4. Single pole of a DC line	SLG	EHV, HV	Yes	Yes
P7 Multiple Contingency (Common Structure)	Normal System	The loss of: 1. Any two adjacent (vertically or horizontally) circuits on common structure [12] 2. Loss of a bipolar DC line	SLG	EHV, HV	Yes	Yes

LOAD FORECAST METHODOLOGY

MANIPUR

1. SHORT TERM FORECAST
2. PREVIOUS DAY ACTUAL DRAWAL PATTERN

SLDC MANIPUR studies the loading pattern of the previous day and correspondingly makes changes in the next day forecast with consideration of various other factors such as load constraints of line, festival day load increment, etc.

FEW EXAMPLES ARE ILLUSTRATED AS FOLLOW:-

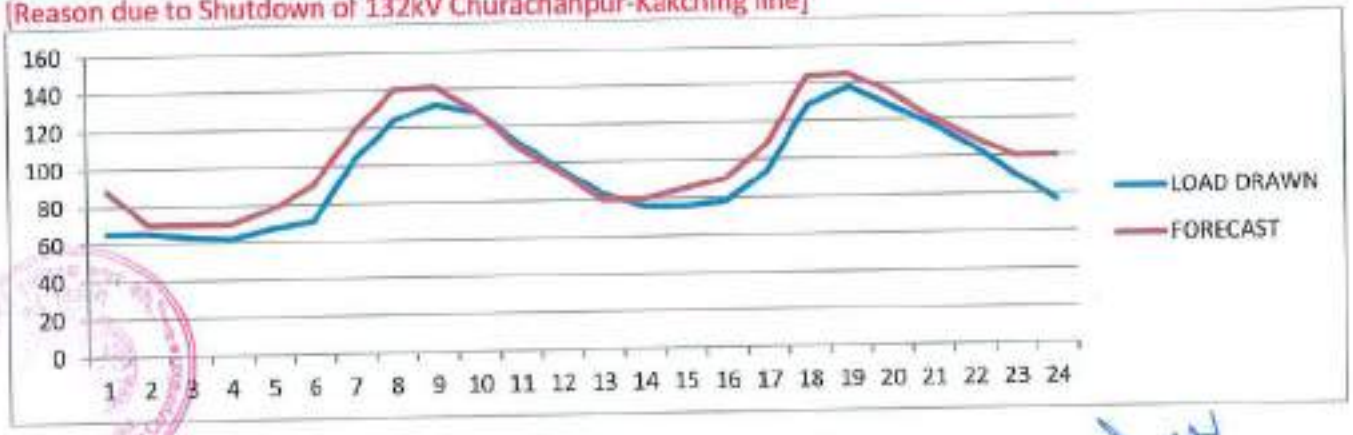
A) FOR DATE 1-1-17

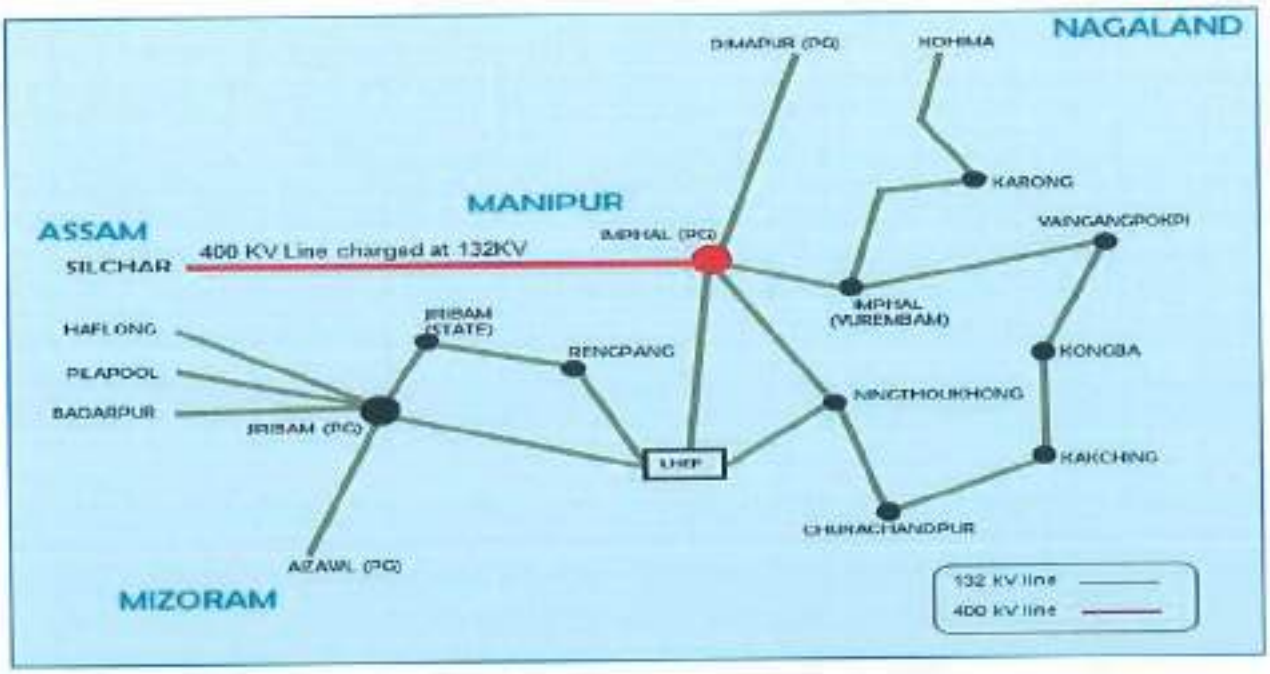
HOUR	LOAD DRAWN ON 31-12-16 [MW]	FORECAST FOR 31-12-16 [MW]	FORECAST ADJUSTED FOR 1-1-17 [MW]	LOAD DRAWN ON 1-1-17 [MW]
0	68.7	88	88	65.7
1	65.2	70	70	65.7
2	65.9	70	70	63.3
3	65.5	70	70	62.3
4	64.1	78	78	67.5
5	77.75	103	90**	70.9
6	109.9	118	118	103
7	136	140	140	124
8	138.5	141	141	132
9	123.65	128	128	127.5
10	109.25	108	108	110.95
11	98.5	95	95	96.3
12	90.35	80	80	83.05
13	81.3	80	80	76.25
14	83.82	85	85	75.86
15	87.94	100	90**	78.06
16	104.6	128	108**	93.66
17	134.6	151	144***	128.8
18	138.7	145	145	137.8
19	130.5	135	135	127.66
20	114.83	121	121	117.36
21	106.5	110	110	105.36
22	93.8	110*	100**	90.2
23	80	110*	100**	76.7

*[high forecast with consideration of NEW YEAR EVE Celebration]

**[reduced forecast according to loading pattern of the previous day]

***[reduced forecast due to 132kV Yurembam-Yaingangpokpi line constraint as 132kV Kakching SS is supplied from Kongba (instead of Churachanpur) and about 6 MW affected during evening peak hour] [Reason due to Shutdown of 132kV Churachanpur-Kakching line]



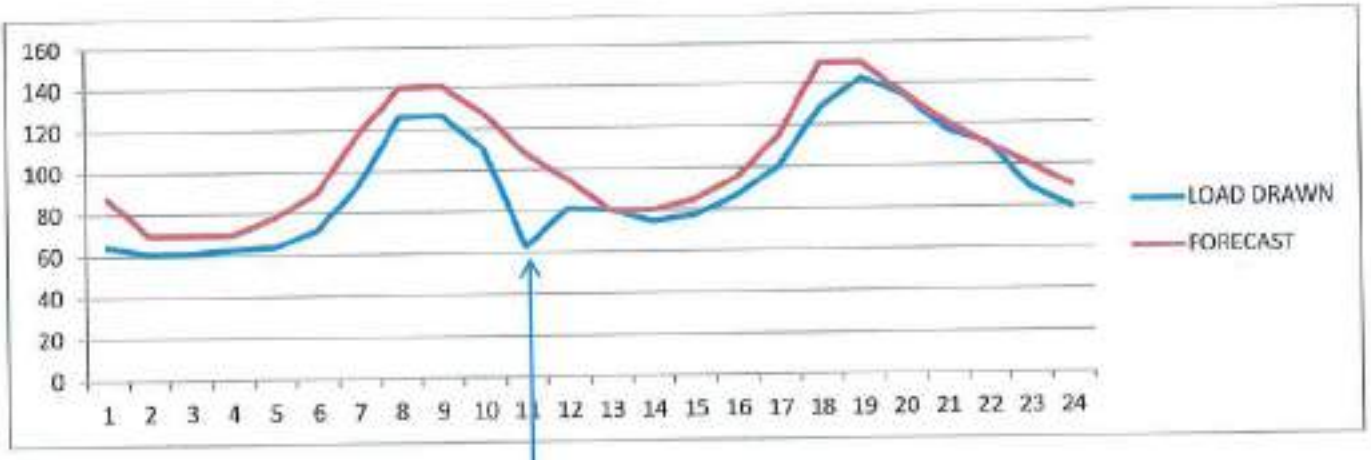


B) FOR DATE 4-1-17

HOUR	LOAD DRAWN ON 3-1-17 [MW]	FORECAST FOR 3-1-17 [MW]	FORECAST ADJUSTED FOR 4-1-17 [MW]	LOAD DRAWN ON 4-1-17 [MW]
0	66	88	88	64.5
1	63.4	70	70	61
2	61.3	70	70	61.1
3	61.8	70	70	62.8
4	65.1	78	78	63.9
5	74.8	90	90	72.04
6	93.1	118	118	93.2
7	134.5	140	140	126.2
8	137.95	141	141	126.7
9	120.45	128	128	110.75
10	104.2	108	108	63.05
11	87.96	95	95	81.25
12	79.85	80	80	80.27
13	77.25	80	80	74.4
14	82.13	85	85	77.32
15	83.4	90	95*	86.49
16	96.4	108	115**	100.3
17	114.6	144	150**	128.5
18	129.7	145	150**	142.7
19	119.4	135	135	134.4
20	114.54	121	121	117.5
21	100.8	110	110	111
22	84.7	100	100	88.9
23	71	100	90*	79.7

*[reduced forecast according to loading pattern of the previous day]

**[increased forecast due to return of 132kV Churachanpur-Kakching line Shutdown; hence constraint of 6MW is removed]



[Due to tripping of 132kV Leimatak-Ningthoukhong line @09:55hrs]

Electricity Demand Pattern & Forecasting in Meghalaya

Presented by

SLDC Meghalaya

Meghalaya (Key facts)

Key Facts	
Constituted on	21st January 1972
As per 2011 Census	
Total Area - *Rural Areas* - *Urban Areas*	22429 Sq. Km - *22,146 Sq. Km (98.74%)* - *283 Sq. Km (1.26%)*
Administrative Districts	11
No. of Villages *-Inhabited villages*	*- 6459*
Population - *Rural* - *Urban*	2,966,889 *- 2,371,439* *- 595,450*

MePDCL Household Data for Meghalaya

Particulars	Electrified	Un-Electrified	Total HHs
FY15 (MePDCL)	**3,94,785**	**2,15,601**	**6,10,486**
Rural			
	2,82,185	1,94,933	4,77,118
Urban			
	1,12,600	20,668	1,33,268

The number of electrified households is expected to grow at the decadal CAGR of 2.60% in rural areas and at the decadal CAGR of 3.20% in urban areas .

About Meghalaya

- Meghalaya is one of the few states in India which despite having high hydro potential and availability has

  - Lower per capita consumption than National Average of 1000kwh

- Per capita consumption of the state has marginally grown from 456kwh in FY12 to 499kwh in FY15. (source: Meghalaya 24x7 PFA).

- Rapidly growing demand due to
  - High GDP growth in the state
  - Access to power for all by 2019

- Growth in demand has exceeded capacity addition
  - Widening of gap between demand and supply
  - Domestic category is presently still suppressed owing to localized capacity constraints.

Per Capita-Consumption

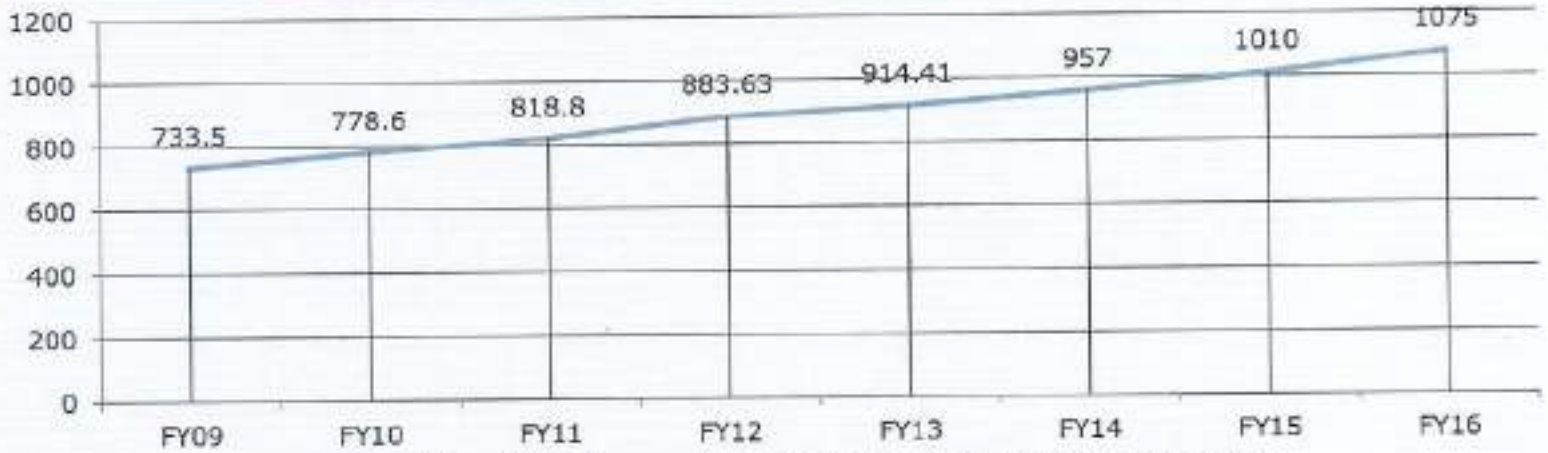


Figure All India annual Per -Capita consumption of Electricity(kWh)

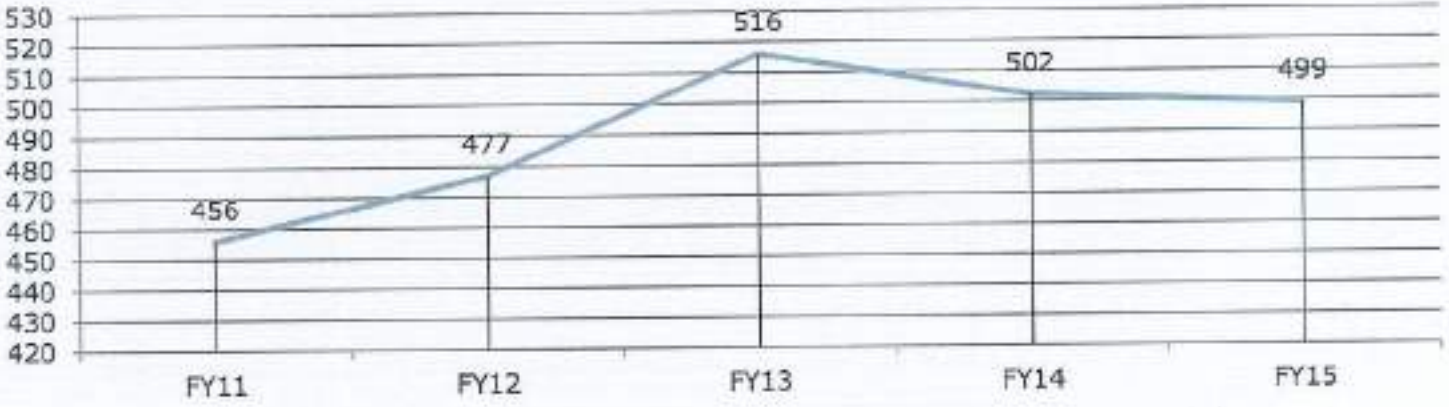
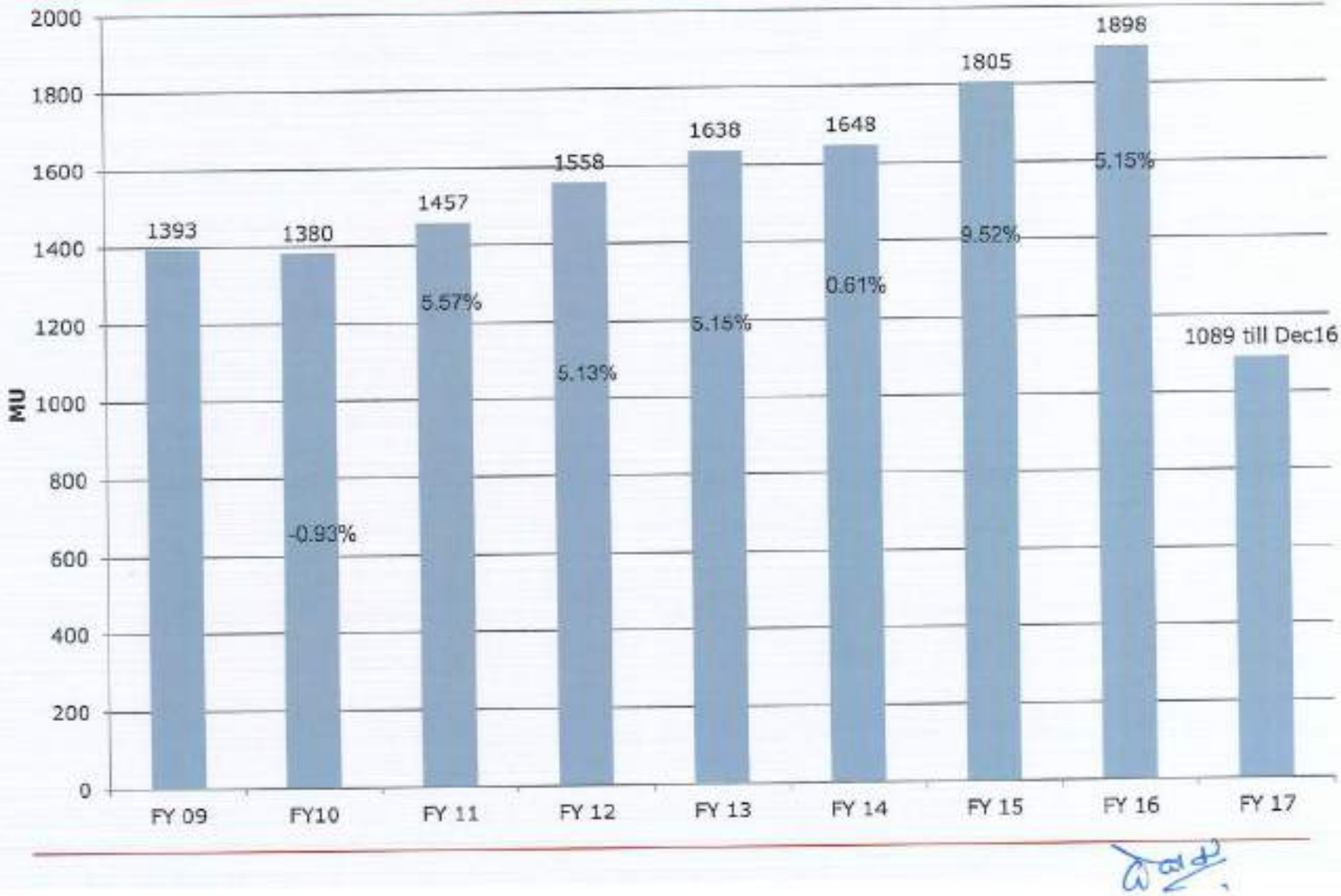


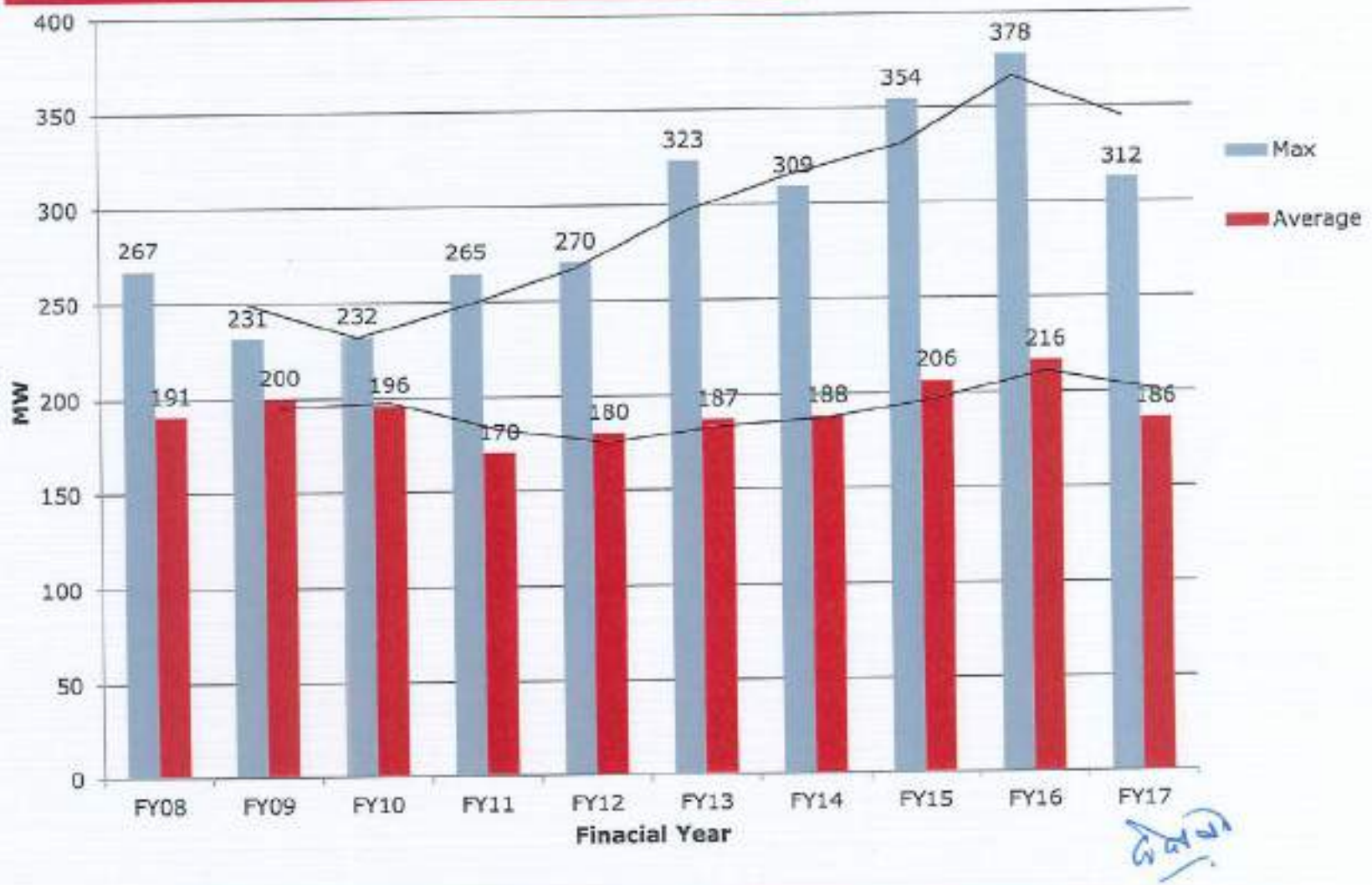
Figure Meghalaya Per -Capita consumption of Electricity(kWh per person) in recent year

615

Actual Energy Requirement of the Meghalaya (MU)



Max Demand Met/Average Demand Met



- Per Capita consumption declining trend from FY13 onwards due to decrease in industrial production over the year.

- Demand has not increased substantially over the years owing to fact that some of the key industries have either closed down or shifted to CPP/OA.

- Due to geographical features of the state (i.e. location, accessibility, and weather) along with current tariff levels play a significant role in determining the current and future demand.

- The future demands have been derived by estimating the urban and rural household consumption after taking into account the growth in number of electrified households on the one hand and the growth in average consumption per household on the other hand.

Typical Daily Load Curves of Meghalaya

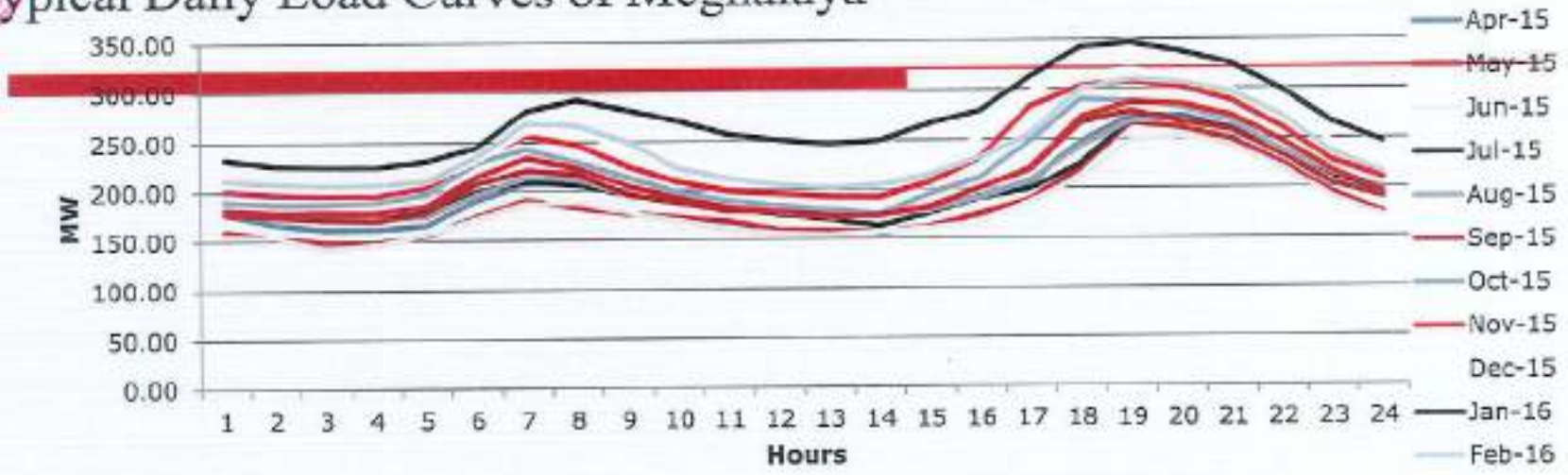


Figure: Daily load curves for the year 2015 -2016

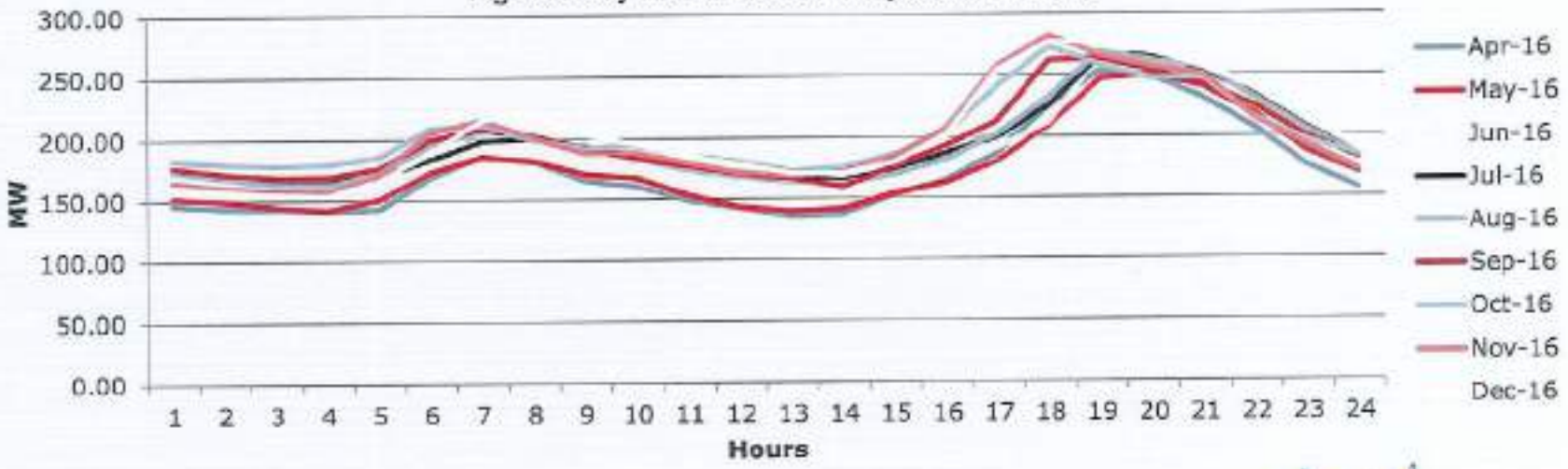


Figure: Daily load curves for the year 2016 -2017

- Daily Load curves show that irrespective of seasonal variation , there is peaking in the evening hours only which is attributed to the fact that there is substantial impact of domestic load in the evening.
- Consistently seen a variation in minimum and maximum demand across the year i.e. from about 150 MW to more than 300 MW whereas the average/base demand is about 200 MW only.
- Adoption of various energy efficiency measures like energy efficient lighting (use of LEDs), adopting demand side management initiatives like introduction of Pre-Paid metering system, etc., would also help in reducing to some extent the peak demand of the state.

Actual Energy Requirement 2015-16 vs Projected LGBR 2016-17

All units in Mu

		Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Total
A	Total Energy Consumed(MePDCL)	133	131	121	132	127	128	134	144	160	166	151	146	1673
B	Total Energy Consumed(Including OA)	145	141	129	150	154	146	159	169	185	198	167	153	1898
C	OA's Customer Energy Consumed (MU)(C=B-A)	13	10	8	18	27	18	25	25	25	32	17	7	225
D	Allotted Energy to OA's customer	32	32	33	33	33	32	33	32	33	33	31	33	395
E	OA Customer Not Consumed (MU) (E=D-C)	20	23	25	15	6	14	9	7	9	1	15	26	170
F	Total (F=B+E)	165	163	154	165	161	160	168	176	194	199	182	180	2068
G	Projected LGBR 2016-17	170	175	165	175	175	170	185	195	210	220	185	190	**2215**
	% in difference(F-G)	3	7	7	6	9	6	10	11	8	10	2	6	

Actual Energy Requirement 2016-17 Vs Projected LGBR 2017-18

All units in Mu

		Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Total
A	Total Energy Consumed(MePDCL)	116	123	129	130	118	124	128	125					
B	Total Energy Consumed(Including OA)	121	128	135	140	135	139	150	141					
C	OA's Customer Energy Consumed (MU)(C=B-A)	5	5	5	10	18	15	21	17					
D	Allotted Energy to OA's customer	32	32	33	33	33	32	33	32	33	33	31	33	
E	OA Customer Not Consumed (MU) (E=D-C)	27	28	28	24	16	17	12	16					
F	Total (F=B+E)	148	156	163	164	151	157	162	157					
G	Projected LGBR 2017-18	158	153	141	160	164	167	174	184	202	216	182	167	**2068**
	% in difference(F-G)	7	-2	-13	-2	9	7	7	17					

Table: Energy requirement of Meghalaya during FY 18 would be 2068MU. With 24X7 supply to be provided across the state the demand would likely increase .

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Arriving at Load Generation Balance Report (LGBR)

Inputs:

- Data from CEA's Electric Power Survey (EPS) pertaining to Energy Consumption, Energy Requirement and Peak Load for Meghalaya.
- MeECL's Commercial Data pertaining to Total Connected Load and Energy Consumption consumer category-wise.
- Joint Initiative Paper between Government of India and Government of Meghalaya regarding 24x7 Power for all (Meghalaya).
- Anticipated / booked Open Access quantum.
- MePGCL's Generation targets / Maintenance Schedule.
- MePTCL's Maintenance Schedule

Procedure:

- Latest available connected load from MePDCL. A power factor of 0.85 was considered for arriving at the connected load term in MW.
- Long Term forecast of Energy Requirement and Projected Peak Demand from the latest EPS is considered for the Financial Year for which the LGBR is being prepared.
- Latest available consumer category-wise monthly energy consumption pattern from MeECL's Commercial Data is noted.
- As per the 18th EPS, the Load factor is fixed at 57.5%. However, from Power flow data available from the SCADA system of SLDC, it is observed that there is a varying trend in the load factor for Meghalaya. Accordingly, scaling of the Load Factor was done.

Arriving at Load Generation Balance Report (LGBR) contd.

- Arrived Load Factor, the month wise Maximum Restricted Demand is computed by dividing the Monthly energy requirement (consistent with the latest EPS) by the corresponding load factor.
- The arrived month wise Maximum Restricted Demand should be consistent with the actual month wise Maximum Restricted Demand met of the previous months / years coupled with the anticipated / booked / actual quantum of Open Access / collective transactions.
- Consideration is to be given to the actual generating capacity season wise along with the associated interstate / intrastate transmission line loadings.

Issue/Challenges:

- The Demand profile of Meghalaya keeps on fluctuating due to a reduction in industrial load attributed to permanent / temporary disconnections, market dynamics, discontinuance etc.
- The Maximum Restricted Demand has a direct correlation with month wise availability of generation and related transmission constraints as per different configurations of Meghalaya's power system in conjunction with NER grid.
- The quantum of Open Access / collective transactions has been found to vacillate.

Load Forecasting

Objective :

To get the accurate forecast of system/ area loads in the state.

Inputs :

- Load History (Normally stored from actual SCADA data)
- Loads as function of Weather data
- Effective weather forecast
- Weather history data
- Formula to get derived forecast variable
- Planning Inputs

Load Forecast Type:

1. Short Term (for every 5 minutes or real time)
2. Medium Term (Hourly or weekly forecast and daily planning)
3. Long Term (Monthly Planning and Year>1year)

Load Forecast Methodologies with the new SCADA system

- Load Shapes (Saved load curved in history can be used for forecasting)
  - Load curved are cyclic in nature over the week.
  - With appropriate load growth(say 5% over year /month)

This technique can effectively be used.

Challenges: Highly dependent on weather, special days, planning impact cannot be handled.

- Similar day (based on similar weather day in history)
  - Takes care of weather dependencies
  - Gets the weather forecast for the selected day
  - Identify similar weather day in history (closest match)
  - take it as base load and apply load growth

  Challenges: Weather Sensors are required to be installed incorporating with RTU .

- Average Day (for instance, average of 01.01.17 - 06.01.17 to current forecast 07.01.17)
  - Takes the average of time block previous/week days and forecast to current date.

Load Forecasting

- **Meghalaya load forecasting is adopted from average day method in 15 minute time block based from historical data with appropriate load scaling and shifting technique (Normally stored from actual SCADA data)**
- **Average day forecast gives more accurate than other two methodologies.**

Issue/ Challenges:

- Highly dependent on historical data/weather data forecast
- All techniques (Load shapes+Similar day+Average day) can be effectively used only if weather sensors are installed in all respective substations in the state incorporating with RTU.
- For Long term load forecasting –
  - Appropriate Load growth and the planning indices are crucial.
- Dependent on RTU and strong communication with control centre

THANK YOU

FOR YOUR PATIENT HEARING KIND ATTENTION

Per Capita-Consumption

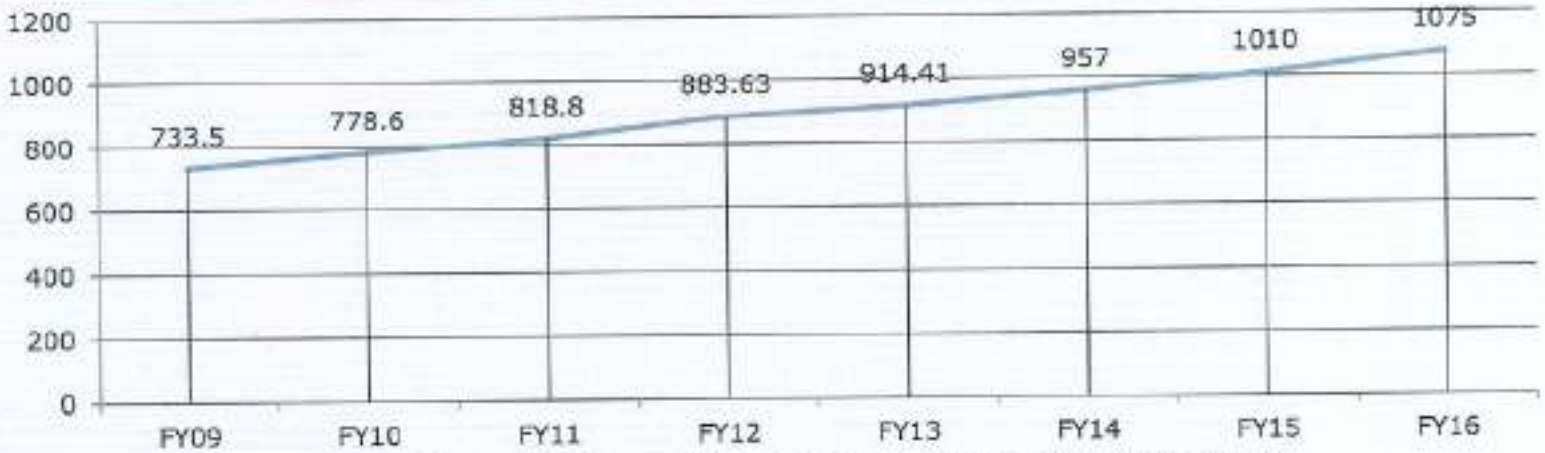

Figure All India annual Per -Capita consumption of Electricity(kWh)

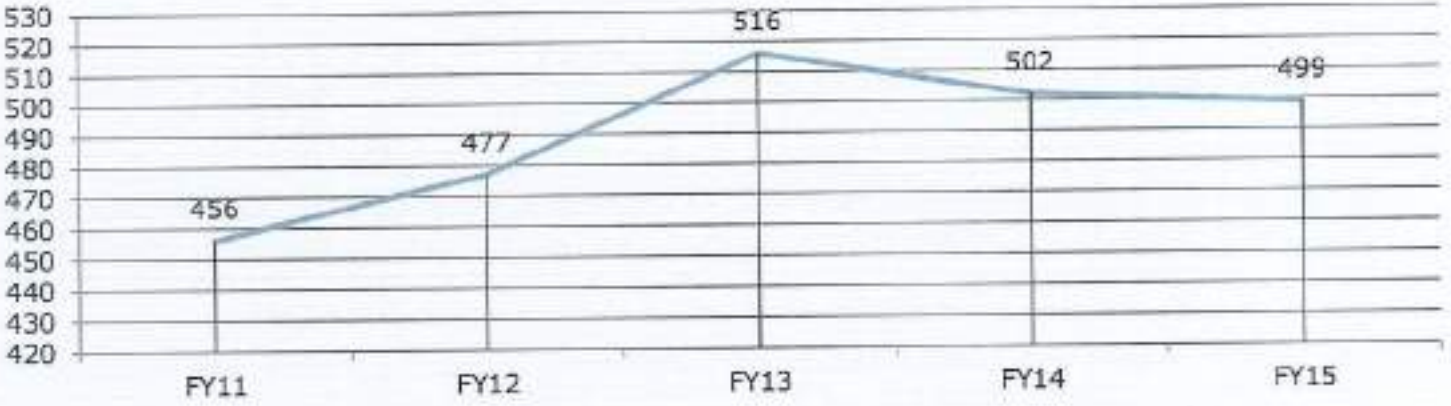

Figure Meghalaya Per -Capita consumption of Electricity(kWh per person) in recent year

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OTPC
ONGC-Tripura Power Company (P) Ltd.

SALE OF URS POWER IN MARKET AS PER CERC IEGC FIFTH AMENDMENT REGULATIONS

OTPC

DATE 28/07/2017

Preamble

- IEGC 5th Amendment came into force w.e.f. 01st May 2017
- The following points has been added after 6.5.4 of principal regulation in the 5th amendment
  - The original beneficiary shall communicate its consent to the ISGS by 0945 AM each day about the quantum and duration of power for next day for sale in the market.
  - The original beneficiary may also provide a standing consent to the ISGS for sale of power in the market. for specified duration and specified quantum
  - The ISGS shall not sell the power of any beneficiary in the market without its expressed consent

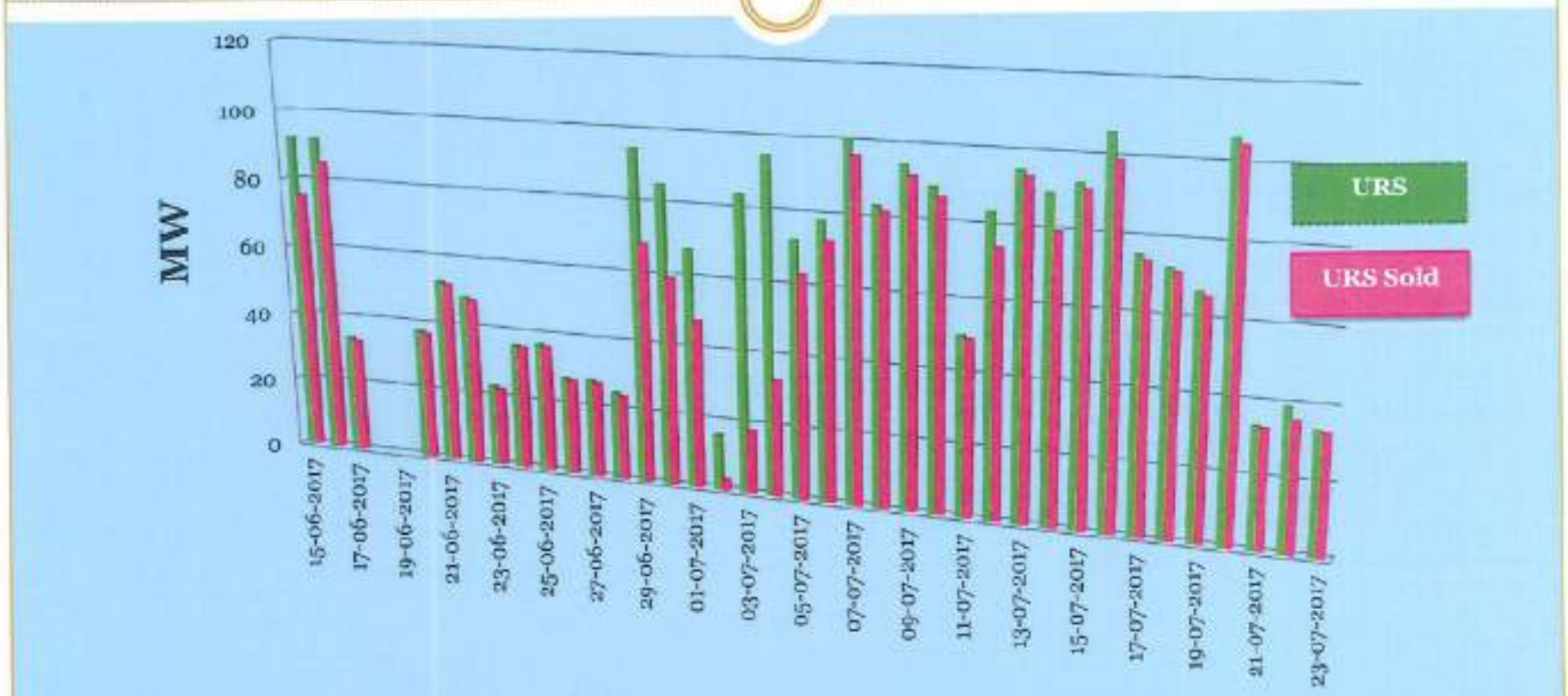
Preamble

- The following points has been added after 6.5.4 of principal regulation in the 5th amendment Contd...
  - The beneficiary shall not be allowed to schedule the power for which consent has been given by the beneficiary to the ISGS except in cases where power is still available with the ISGS after sale through bilateral and collective transactions. Also if the beneficiary wants to recall the power for which they have already given consent for sale in the market(not sold by the ISGS), they should take consent from the respective ISGS and then apply to RLDC for recalling back their power from that ISGS.
  - In case of sale of share of original beneficiaries in market by ISGS for which consent has been given, the realized gains shall be shared between the ISGS and the concerned beneficiary in the **ratio of 50:50** or as mutually agreed by the ISGS and concerned beneficiary in the billing of the following month

Day Ahead URS from Nagaland

- On Dated 15/06/2017 1st time Nagaland given Day Ahead URS of 92.04 MW in which 75 MW was sold
- Till 24/07/2017 Nagaland have declared Day Ahead URS of 2.2274 MU, in which 2.12965 MU was sold in Exchange
- Total Sale value in INR Till 24/07/2017:Rs 4679653.48
- Tentative gain of Nagaland: Approx Rs 613450/- (Value may change on real calculation)
- On Dated 25/07/2017 1st time Meghalaya given Day Ahead URS of 0.41176 MU

URS Clearance Vs URS Sold



	15-06-2017	16-06-2017	17-06-2017	18-06-2017	19-06-2017	20-06-2017	21-06-2017	22-06-2017	23-06-2017	24-06-2017	25-06-2017	26-06-2017	27-06-2017	28-06-2017	29-06-2017	30-06-2017	01-07-2017	02-07-2017	03-07-2017	04-07-2017	05-07-2017	06-07-2017	07-07-2017	08-07-2017	09-07-2017	10-07-2017	11-07-2017	12-07-2017	13-07-2017	14-07-2017	15-07-2017	16-07-2017	17-07-2017	18-07-2017	19-07-2017	20-07-2017	21-07-2017	22-07-2017	23-07-2017
Series1	34	39	34	10	67	73	75	10	93	89	95	84	50	89	95	83	10	78	73	95	84	16	68	85	95	25	28	28	37	36	23	49	53	38			34	92	92
Series2	33	36	33	10	66	72	74	99	91	80	94	74	50	87	92	82	96	73	63	33	18	3	48	59	68	24	27	27	37	36	23	48	52	37			33	85	75

TPC
Tata Power Company (P) Ltd.
Average Price
Rs/KWh
3.5
3
2.5
2
1.5
1
0.5
0
ON
15-06-2017
16-06-2017
17-06-2017
18-06-2017
19-06-2017
20-06-2017
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23-07-2017
24-07-2017

What we can Do

- Constituents are giving URS on real time bases and subsequently we are processing the same in TAM with all necessary NOC, but the probability of power sale in TAM is very low.

- In the view of above kindly declare Day URS from OTPC Palatana plant, and it will be in the best interest of OTPC and constituents as realization gain will be shared 50:50.

U.O. No. 193/T-4
NEEPCO Ltd, Shillong

Fax No. 011-26186024

प्राधिकरण
Central Electricity Authority
तापीय परियोजना परिशोधन एवं आधुनिकीकरण प्रभाग
Thermal Project Renovation and Modernisation Division
सेवा भवन, नवम तल (3)
Sewa Bhawan, 9th Floor, (N)
नई दिल्ली - 110 066
New Delhi - 110066

Dated: 27-08-2015

No.2/3/Misc./TPRM/CEA/2015/765

Sub: Identification of TPS units required R&M/LE during 13th Plan period

In the meeting of Ad-hoc Task Force (ATF) on RFD of Ministry of Power (MOP) convened on 03.04.2013, it has been stressed upon that Power Utilities should take up R&M / LE works on at least 20% of units which qualify for R&M and LE interventions. As per CEA guidelines, units above 15 years old qualify for Mid Life R&M works whereas units above 25 years qualify for comprehensive R&M works for Life Extension.

In view of the above you are requested to intimate the units for which R&M/LE works shall be taken up during the 13th Plan Period i.e. 2017-22 under two categories as furnished below:-

(a) Mid Life R&M works of units completing 15-25 years of plant life on 31.03.2017.
(b) Comprehensive R&M works for Life Extension of units completing 25 years of plant life on 31.03.2017

Further, you are also requested to furnish the unit wise preparedness regarding taking up the R&M/LE works viz. RLA/CA studies completed, Scope of works finalized, DPR prepared, funds tied up etc.

(भाई लाल)
मुख्य अभियंता

To:

The General Manager (R&M-Engg.), National Thermal Power Corporation Ltd. Engineering Office Complex, A-8A, Sector-24, Noida-201301 (Fax: 0120-2410015/2410136)

Director (Technical), NEEPCO Ltd., Brook Land Compound, Lower New Colony, Shilong-793003 (Fax No. 0364-2228520)

रजिस्ट्री सं० डी० एल०-33004/99

REGD. NO. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

असाधारण
EXTRAORDINARY
भाग III—खण्ड 4
PART III—Section 4
प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 211] नई दिल्ली, शुक्रवार, अगस्त 20, 2010/श्रावण 29, 1932
No. 211] NEW DELHI, FRIDAY, AUGUST 20, 2010/SHRAVANA 29, 1932

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 20th August, 2010

No. CEA/TETD/MP/R/01/2010.—In exercise of the powers conferred by sub-section (2) of Section 177 of the Electricity Act, 2003, the Central Electricity Authority hereby makes the following regulations namely :—

1. Short Title and Commencement.—(1) These regulations may be called the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2010.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. Definitions.—(1) In these regulations, unless the context otherwise requires,—

(a) "Act" means the Electricity Act, 2003;

(b) "Authority" means the Central Electricity Authority established under sub-section (2) of Section 70 of the Act;

(c) "Base Load Operation" means operation at maximum continuous rating (MCR) or its high fraction;

(d) "Basic Insulation Level (BIL)" means reference voltage level expressed in peak (crest) voltage with standard 1.2/50 μs lightning impulse wave. Apparatus should be capable of withstanding test wave of basic insulation level or higher;

(e) "Black Start" means the start up of a generating unit or gas turbine or internal combustion (IC) engine based generating set wilhout use of external power following grid failure;

(f) "Boiler Maximum Continuous Rating (BMCR)" means the maximum steam output, the steam generator (boiler) can deliver continuously at rated parameters;

(f) *SF_6 Filling, Evacuation, Filtering, Drying & Recycling Plant*

SF_6 filling, evacuation, filtering, drying and recycling plant with adequate storage capacity shall be provided at a new sub- station or new switchyard or for a cluster of sub-stations and switchyards along with trolley for filling or evacuation of SF_6 circuit breaker or gas insulated switchgear (in case of GIS installation) and to monitor the purity, moisture content, decomposition product etc. of SF_6 gas.

(4) Protection and control

(a) *Protective Relaying System*

Adequately sectionalized and graded protective relaying system shall be provided for transmission lines, transformers and bus bars so as to automatically isolate the faulty equipment and, thus, minimize the damage to the equipment in the event of faults and abnormal conditions. All main protection relays shall be of numerical type and communication protocol shall be as per IEC-61850/ relevant IS.

(b) *Grouping of Protection*

(i) The protection functions shall be subdivided into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing. Wherever two sets of DC sources are available, the relays shall be electrically and physically segregated into two groups (Gr. A and Gr. B) to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service. Grouping shall be done to the extent possible in such a way that each group can independently carry out protective functions with near equal redundancy. Interconnection between these two groups shall not generally be attempted. However, if found absolutely necessary such interconnection shall be kept to the bare minimum.

(ii) Even in cases when only one battery source is available, segregation of protection and trip circuits in two groups may be considered by giving DC supplies through separate fuses.

(c) The protection in respect of transmission lines, transformers, reactors and bus bars are indicated in Schedule- V.

(d) *Disturbance Recorders, Event Loggers and Time Synchronisation Equipment-* Each 765kV, 400 kV and 220 kV line shall be provided with facility for disturbance recording, distance to fault locator and time synchronising equipment (TSE). Event logger either stand alone or as part of sub- station or switchyard automation system shall be provided for each 220kV and higher voltage class sub-

Original approved

नॉर्थ इस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बकुलनि, जिला- डिब्रुगढ़,आसाम, पिन - ७८६ १९१

North Eastern Electric Power Corporation Ltd.
(A Govt.of India Enterprise)
www.neepco.gov.in

ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 191
Ph. 0374-2825216, EPABX 2825207/2825423/2825208 FAX : 0374-2825349/2825217
E-mail : agbp.bokuloni@gmail.com

SO - 9001-2008
SO-14001-2004
SAS - 18001-1999

Ref: NEEPCO/AGBP/PEM/O&M-12/18-19/ 187. dtd: 19/8/18

To.
M/s Everlite Engineering Industries
Everlite House, Laipuli
P.O: Panitola
Assam-786183
FAX 0374-2310126; Phone: 03742318564/2316579
Email: EVERASSAM1@GMAIL.COM; vsingh_vins@rediffmail.com

Sub: Detailed Purchase Order (No. *39NBI067* dated 10/08/2018) for "Design, Re- Engineering, Supply, Retrofitting, Testing and Commissioning of GE T&D India Ltd make numerical relays" at AGBP, NEEPCO Ltd., Bokuloni Chariali, Dibrugarh, Assam.

Ref:
1. Enquiry vide letter no. NEEPCO/AGBP/ PEM/O&M-12/18-19/61 dated 21/05/2018
2. Offer vide letter no. NEEPCO/AGBPP/RELAY RETRO/6.6 KV & 415V/18-19 dtd. 12-06-2018
3. Request for clarifications to M/s G E T & D India Ltd. Kolkata vide letter no. NEEPCO/AGBP /PEM/O&M-12/18-19/127 dated 05/07/2018.
4. Clarifications received vide No.NEEPCO/AGBPP/Relay Retro/6.6 KV & 415 V/Clarification Dated 09/07/2018.
5. Request for clarifications via email dated 01/08/2018.
6. Clarifications receipt via email dated. 01/08/2018.
7. Our LOI No. NEEPCO/AGBP/ PEM/O&M-12/18-19/161 dated 01/08/2018.

Dear Sirs,

With reference to the above, the corporation is pleased to issue the detailed Purchase Order (No. *39NBI067 dated 10/08/2018)* for "Design, Re-Engineering, Supply, Retrofitting, testing and commissioning" as per following terms and conditions:

PRICE:

Supply:

Sl No	Item	Qty	Unit Ex-works Price (Chennai) (in Rs.)	Total Ex-works Price (Chennai) (in Rs)
1	GE (formerly Alstom) make Numerical Protection relay, Type: MiCOM P241 with 8DI/8DO on IEC61850 protocol. Aux. 110-250 V DC for 550 KW motor. (For 04 No for Cooling Water Pump Motor at 6.6 KV & 3 No. For EP Motor at 415 V)	07	80,000.00	5,60,000.00
2	GE (formerly Alstom) make Numerical Protection relay, Type: MiCOM P 94VB with 8DI/8DO on IEC61850 protocol. Aux. 24-250 V DC. (For 6.6 KV BUS PT.)	02	76,000.00	1,52,000.00
3	GE (formerly Alstom) make Numerical Protection relay, Type: MiCOM P14NB with 8DI/8DO on IEC61850 Protocol. (For 1 no. 6.6 KV Bus Coupler, 1 no. Incomer A (OCA – OCC), 1 no. Incomer B (OCB – OCC) and 2 no. Transformer Feeder (ODN&ODZ)]	05	72,000.00	3,60,000.00
			Total	10,72,000.00
			(Rupees Ten Lakh Seventy Two Thousand) only	

A. Services:

Sl	Service	Qty	Unit Lump Sum Service Charge (Rs.)	Total Lump Sum Service Charge (Rs.)
1	Retrofitting, Testing and Commissioning, Engineering drawing for P241 relays	07	40,000.00	2,80,000.00
2	Retrofitting, Testing and Commissioning, Engineering drawing for P94VB relays	02	40,000.00	80,000.00
3	Retrofitting, Testing and Commissioning, Engineering drawing for P14NB relays	05	40,000.00	2,00,000.00
			Sub total	5,60,000.00
			(Rupees Five Lakh Sixty thousand) only	

TERMS AND CONDITIONS:

1. Scope of supply: - The scope will include Design, Manufacturing and Routine Test as per relevant standard (at manufacturer's works), packing and forwarding, supply and delivery of items as quoted in the offer.

   Supply of required wiring materials (i.e. wires, ferrules, lugs, Terminal blocks) and blanking plates for retrofitting and wiring of protective scheme during site activities as quoted in the offer.

   All the existing auxiliary relays will be retained in the protective scheme. However, if any auxiliary relay(s) is/ are found to be defective at the time of commissioning, same shall be replaced/ repaired on chargeable basis, which shall be regularized after completion of the commissioning.

2. Scope of Work :- The scope of work will include
   a. Design and re-engineering for the protection scheme.
   b. Removal of existing protection schemes.
   c. Mounting and wiring of new protection scheme.
   d. Testing and Commissioning of new protection schemes. All the protection logics shall be made operative as per the scheme requirement.
   e. To provide training on protection schemes offered during commissioning.
   f. Supply of required wiring materials and Blanking Plates for Mounting and Wiring of Protective scheme during site activities.
   g. Supply and termination of cables outside to the protection panels are not included in the scope of work.
   h. All auxiliary relays/Trip relays of the existing protection schemes will retain as earlier. If auxiliary relays found defective, same will replaced/repaired by the Firm on chargeable basis.

3. Technical specification and Drawing: On receipt of this order and prior to commencement of commissioning activities, a copy each of all the drawings, technical specifications and schemes shall be submitted to this office for reference. You are also requested to submit modified final drawing if any modification is required during commissioning,(indicating the modification(s)).

   3.1 Price: The Prices is Ex-Works (Chennai) and shall remain "FIRM" till completion of delivery of the materials (for materials) and till completion of commissioning (for works). The prices are Exclusive of Taxes and duties, fright and Insurance.

   3.2 Freight & Transit insurance: - Materials have to transport through reputed transporter/courier service. Freight charges shall be paid extra at actual against submission of documentary evidence and restricted @2% of basic price. *The transit insurance shall be arranged by NEEPCO under NEEPCO's Marine Open Policy & the Firm has to intimate to the undersigned/ Consignee before dispatch for issuance of Transit Insurance and Road Permit.*

   3.3 Taxes and Duties: All applicable taxes and duties shall be paid extra at actual at the time of execution as per Govt. prevailing norms. (Present rate of GST @ 18%for supply and service). GST shall be applicable subject to submission of GST details. *Our (Assam Gas Based Power Plant) GSTIN and PAN is '18AAACN9991J3ZP'and 'AAACN9991'*

4. **Terms of Payment:**

   a. **For Supply**

   100% (one hundred percent) payment against supply of the materials along with taxes and duties at actual shall be released within 30 days on receipt of the materials at AGBP site in full and good condition and against submission of the following dispatch documents:

   a) Bill in triplicate,
   b) Packing list,
   c) Consignment note/Challan,
   d) Guarantee /Warrantee Certificate,
   e) Bank account details for e- payment (as per format enclosed),
   f) Test Certificate,

   b. **For Works**

   100% payment with taxes applicable will be released on successful Commissioning completion of each relays (part payment) against submission of:

   a) Bill in triplicate,
   b) Work completion report.

   Work Completion will include completion of all 05(five) points mentioned in terms and Condition sl. no. 2 above (2a through 2e).

   Work completion report will include:

   a) Report of commissioning,
   b) Final drawings of all the schemes commissioned,
   c) Final logic diagrams (PSL) of all the schemes commissioned.
   d) Complete list of relay setting values at the time of commissioning.
   e) List of all programmable inputs and/ or outputs used indicating usage.
   f) AND any other relevant document(s) if any.

5. **Security Deposit/Bank Guarantee:** The supplier have to be submitted Performance Bank Guarantee cum security deposit @ 10% of ex-work material value in prescribed format from a reputed and registered bank having a validity of 90 days after expiry of the guarantee period within 20 days from issue of the purchase order on fulfilment of all the terms and conditions.
6. **Delivery:** The materials shall be delivered within 8 (Eight) to 10 (Ten) weeks of receipt of technically and commercially clear order at Assam Gas Based Power Plant site, NEEPCO Ltd., P.O Bokuloni Chariali, District Dibrugarh, Assam-786191. However, effort should be given to shorten the delivery period.
7. **Guarantee/Warranty:** The numerical relays will be guaranteed for a period of 12(twelve) months from the date of commissioning or 18(eighteen) months from the date of supply, whichever is earlier. The supplier will submit the Guarantee/Warranty certificate of all the numerical relays along with the material/Invoice.
8. **Testing and Inspection:** The numerical relays will undergo all the required tests as per the relevant IS codes. The supplier will submit the Test certificate of all the numerical relays along with the material/Invoice.
9. **Retrofitting and Commissioning:** Retrofitting and commissioning of the numerical relays at site will be carried out as mentioned in the offer of your principal M/s GE T & D India Ltd., Kolkata and as per the rates mentioned above. For this no separate order shall be issued. The supplier will coordinate with their principal M/s GE T & D India Ltd., Kolkata for retrofitting and commissioning of the numerical relays and completion of the job on time. Kindly note that retrofitting and commissioning of the numerical relays will be done in a phased manner as per site conditions.

   You will be intimated at least 15 (fifteen) days advance of the commencement of commissioning for your necessary arrangement.
10. **Accommodation:** NEEPCO will provide accommodation to the commissioning Engineer/Team at site (Guest House) free of cost. However, the food shall be on chargeable basis as per our standard rate.
11. **Liquidated damage:** In case you fail to deliver the materials within the contractual delivery period due to reason attributed to you, then the Corporation shall reserve the right to recover from your sum towards liquidated damages @ 1/4%(one forth percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the scheduled delivery date. The total recovery from you on account of this shall, however, not exceed 5% (five

percent) of the value of the undelivered portion of supply. However the LD clause will not be imposed if you fail to deliver the materials within the scheduled delivery period due to Force Majeure conditions which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquakes, storms, floods, explosion or fire not caused by your negligence, lightning, act of God, public enemy which is of such nature as to delay, curtail or prevent timely action by either party.

12. **Consignee:** Senior Manager (E/M), Material Management Wing, AGBP, NEEPCO Ltd., P.O. Bokuloni Chariali, District Dibrugarh, Assam-786191.
13. **Rejection of defective materials:** If the materials are found defective at the time of receipt, the same shall be rejected and the supplier shall have to replace the same at their cost.
14. **Paying authority:** The Senior Manager (F), F&A Wing, AGBP, NEEPCO Ltd., P.O Bokuloni Chariali, District Dibrugarh, Assam-786191.

Kindly acknowledge receipt of this order and confirm your acceptance thereof.

Thanking you,

Yours faithfully,

Senior Manager (E/M)
Plant Electrical Maintenance
AGBP, NEEPCO Ltd.

Memo no. NEEPCO/AGBP/PEM/O&M-12/18-19/ 188. dated 13/8/18

Copy to:

1. M/s G E T & D India Ltd. Kolkata,
   DLF IT Park, Premises No. 8
   Major Arterial Road, Block 'AF', Tower-C, 8th floor
   New Town Rajarhat, Kolkata-700 156
   Fax: 033-400 97043

Senior Manager (E/M)
Plant Electrical Maintenance
AGBP, NEEPCO Ltd.

N.I.O

Memo no. NEEPCO/AGBP/PEM/O&M-12/18-19/ 189 – 194 dated 13/8/18

Copy to:

1. The Head of Project, AGBP, NEEPCO Ltd., for favour of kind information, please. This is as per concurrence of Project Finance received vide NEEPCO, AGBP/F&A/435 dated 07/08/18 and approval received from competent authority vide U.O no. NEEPCO/HOP/888 dated 07/08/2018.
2. O/o The DGM (E/M), AGBP, NEEPCO Ltd., for favour of kind information, please.
3. The Senior Manager (F), F&A Wing, AGBP, NEEPCO Ltd., for information, please.
4. The Senior Manager (E/M), MMW, AGBP, NEEPCO Ltd., for information, please. A photocopy of the approval note is enclosed herewith.
5. The Sr. Manager (E/M), Vigilance, AGBP, NEEPCO Ltd. for information, please. A photocopy of the approval note is enclosed herewith.
6. O&M-12 File

Senior Manager (E/M)
Plant Electrical Maintenance
AGBP, NEEPCO Ltd.

U/O No. NEEPCO, AGBP/F&A/405 Dated 07/08/18

Ref: NEEPCO/AGBP/PEM/O&M-02/39NBI147/18-19/ 623 dtd: 28/03/19

To

M/s SCOPE T&M PVT LTD.

402, Aurus Chamber, Annex-A, S.S. Amrutwar Marg

Worli, Mumbi-400013

Kind Attention: Ajoy Agarwal, General Manager- Marketing

Sub: Detailed Purchase Order for "Supply, installation and Commissioning of External GPS system for Time synchronisation of RTU"-at AGBP, NEEPCO Ltd., Boktuloni Chariali, Dibrugarh, Assam.

Ref:

1. Our enquiry. NEEPCO/AGBP/PEM/O&M-02/18-19/454 Dtd. 20.12.2018
2. Your offer vide. QPAF-AS-AS-01-B001-R01 dtd. 28-12-2018.
3. Our letter for clarifications vide NEEPCO/AGBP/PEM/O&M-02/18-19/510 dtd. 09/01/2019.
4. Your clarifications vide Ref.: LPAF-AS-AS01-R03 dated. 11-01-2019.
5. Your offer vide Ref.: QPAF-AS-AS01-B001-R03 dated. 11-01-2019
6. Our email for clarifications dated 18/01/2019
7. Your clarifications vide Ref.: LPAF-AS-AS01-003-R01 dated. 19-01-2019
8. Your revised offer vide Ref.: QPAF-AS-AS01-B001-R04 dated. 19-01-2019.
9. Our email for clarifications dated 27/03/2019
10. Your Confirmation email dated 27/03/2019

Dear Sirs,

With reference to the above, the corporation is pleased to issue the detailed Purchase Order for "Supply, installation and Commissioning of External GPS system for Time synchronisation of RTU" as per following terms and conditions:

TERMS AND CONDITIONS:

1. **Scope of supply:** - The scope of supply will include supply and delivery of items as per the Bill of Materials (BOM) as mentioned below:-

Bill of Materials (BOM)

External GPS system for Time synchronisation of Existing Vizimax RTU at AGBP, NEEPCO Ltd.				
Sl. no	DESCRIPTION	MAKE	UOM	QTY
1	GPS System as per specifications	Sands/Equivalent	Nos.	1
2	External switch for 6RJ 45	Reputed	No.	1
3	Power supply for Ethernet Switch	Reputed	No.	1
4	Patch Cord Cables	KEI/Reputed	mtr	20

2. **Scope of Work:** The scope of works will include supply and commissioning of External GPS system and Time synchronise the RTU. You are requested to commission the GPS system at the earliest after delivery of the materials at site.

3. **PRICE:** The Prices is Ex-Works (in INR) and shall remain "FIRM" till completion of delivery of the materials (for materials) and till completion of commissioning (for works). The prices are Exclusive of Taxes and duties, freight and Insurance.

a. **Supply:**

Sl No	Item	Qty	Unit Ex-works Price (in INR)	Total Ex-works Price (in INR)
1	Supply of External GPS system for time synchronisation of Existing Vizimax RTU at AGBP, NEEPCO Ltd.	01	185620.00	185620.00
(Rupees One Lakh Eighty Five Thousand Six Hundred Twenty) only				

b. **Services:**

Sl	Service	Qty	Unit Lump Sum Service Charge (Rs.)	Total Lump Sum Service Charge (Rs.)
1	Installation and Commissioning of GPS System (Completion in all aspects)	01	49,500.00	49,500.00
(Rupees Forty Nine Thousand Five Hundred) only				

c. **Freight & Transit Insurance:** - Materials have to transport through reputed transporter/courier service. Freight and insurance charges shall be paid extra at actual against submission of documentary evidence and restricted @3% of basic price.

4. **Taxes and Duties:** All applicable taxes and duties shall be paid extra at actual at the time of execution as per Govt. prevailing norms. (Present rate of GST @ 18%for supply and service). GST shall be applicable subject to submission of GST details.

5. **E-WAY bill (Road Permit):** E-way bill may be generated by the supplier. *Our (Assam Gas Based Power Plant) GSTIN and PAN is '18AAACN9991J3ZP'and 'AAACN9991'.No responsibility will be taken for issuance of E-way bill by the purchaser.*

6. **Terms of Payment:**

a. **For Supply**

90% (Ninety percent) payment shall be released after receipt of the materials at AGBP site in full and good condition and against submission of the following dispatch documents:

a) Tax Invoice in triplicate with GST details.
b) Packing list,
c) Challan/LR,
d) Guarantee /Warrantee Certificate,
e) Bank account details for e- payment (as per format enclosed)

Remaining 10% with all taxes and duties will be released against submission of work completion report/MOM of Commissioning.

b. **For Works**

100% payment with taxes applicable will be released on successful Commissioning completion against submission of:

a) Bill in triplicate,
b) Work completion report/ MOM of Commissioning.

7. **Delivery:** The materials shall be delivered within 12 (Twelve) weeks of from the date of confirmed purchase order at Assam Gas Based Power Plant site, NEEPCO Ltd., P.O Bokuloni Chariali, District Dibrugarh, Assam-786191.

8. **Guarantee/Warranty:** The numerical relays will be guaranteed for a period of 12(twelve) months from the date of commissioning or 18(eighteen) months from the date of supply, whichever is earlier. The supplier will submit the Guarantee/Warranty certificate of all the numerical relays along with the material/Invoice.

9. **Testing and Inspection:** The GPS System will undergo all the required tests as per the relevant IS codes. The supplier will submit the Test certificate of all the GPS system.

10. **Accommodation:** NEEPCO will provide accommodation to the commissioning Engineer/Team at site (Guest House) free of cost. However, the food shall be on chargeable basis as per our standard rate.

11. **Liquidated damage:** In case you fail to deliver the materials within the contractual delivery period due to reason attributed to you, then the Corporation shall reserve the right to recover from your sum towards liquidated damages @ 1/4%(one forth percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the scheduled delivery date. The total recovery from you on account of this shall, however, not exceed 5% (five percent) of the value of the undelivered portion of supply. However the LD clause will not be imposed if you fail to deliver the materials within the scheduled delivery period due to Force Majeure conditions which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquakes, storms, floods, explosion or fire not caused by your negligence, lightning, act of God, public enemy which is of such nature as to delay, curtail or prevent timely action by either party.
12. **Consignee:** Senior Manager (E/M), Material Management Wing, AGBP, NEEPCO Ltd., P.O. Bokuloni Chariali, District Dibrugarh, Assam-786191.
13. **Rejection of defective materials:** If the materials are found defective at the time of receipt, the same shall be rejected and the supplier shall have to replace the same at their cost.
14. **Paying authority:** The Senior Manager (F), F&A Wing, AGBP, NEEPCO Ltd., P.O Bokuloni Chariali, District Dibrugarh, Assam-786191.

Kindly acknowledge receipt of this order and confirm your acceptance thereof.

Thanking you,

Yours faithfully,

Senior Manager (E/M)
Plant Electrical Maintenance
AGBP, NEEPCO Ltd.

N.I.O
Memo no. NEEPCO/AGBP/PEM/O&M-02/18-19/ 624-630 dated 28/03/19

Copy to:

1. The Head of Project, AGBP, NEEPCO Ltd., for favour of kind information, please. This is as per concurrence of Project Finance vide NEEPCO, AGBP/F&A/947 dated 29/01/19 and subsequent approval vide U.O no. NEEPCO/HOP/2103 dated 11/02/2019. Further this is issued as per joint discussion with C&I Wing on 27.03.2019.
2. The Senior Manager (E/M), C&I Wing, AGBP, NEEPCO Ltd., for favour of kind information, please.
3. The Senior Manager (E/M), O/o The DGM (E/M), AGBP, NEEPCO Ltd., for favour of kind information, please.
4. The Senior Manager (F), F&A Wing, AGBP, NEEPCO Ltd., for information, please. A photocopy of the approval note is enclosed herewith.
5. The Senior Manager (E/M), MMW, AGBP, NEEPCO Ltd., for information, please.
6. The Sr. Manager (E/M), Vigilance, AGBP, NEEPCO Ltd. for information, please. A photocopy of the approval note is enclosed herewith.
7. O&M-02 File

28/3/19

Senior Manager (E/M)
Plant Electrical Maintenance
AGBP, NEEPCO Ltd.

SL NO: 08 (2019-20) DAVR STG#2
SL NO: 14 & 15 (2021-22) GT#5&6

Ref: RE/SES/SB/001

Date:22/10/2014

To,

M/s AGBP,NEEPCO LTD,Bokulani

Assam India.

Kind Attn : Mr. Dipak Sarma

Dear Sir,

Sub : Obsolescence certificate of Unitrol-M

Ref : Your mail dated 21/10/2014.

This is to certify that as per our product life cycle management to cop-up with the technological change in global environment, Unitrol-M type (Modular Analog version) excitation system is no more in our production range and has been moved to Limited stage where support for the system may be restricted by the availability or accessibility of suitable technology and components. The provision of spare parts and maintenance is based on availability.

At this stage, to extend the system's operation life, ABB offers auxiliary services that, for example, support migration to the next product generation or facilitate retrofit operation and upgrades.

Hereby we would recommend for the complete retrofit of the existing system by Unitrol-6000 type excitation system which is in **Active** stage now.

Thanking you and assuring you of our best services always, we remain.

Yours faithfully.

ABB INDIA LIMITED

Subhankar Bhattacharya.

ABB India Limited
Power Electronics Division (Static Excitation System)
ABB India Ltd,OMEGA Building,17th Floor. Bengal Intelligent Park, Block EP&GP
Sector V, Salt Lake City, Kolkata-700091
Phone: +91 33 66213284
Telefax: +91 33 66213187
Mobile: +91 9163325218
email: subhankar.bhattacharya@in.abb.com

NO: NEEPCO/AGBP/C&I/T-52/2018-19/90NBI115/ 293 Dtd. 23/11/2018

To

M/S ABB India Ltd,
Sy. No: 88/3 to 88/6, Kasaba Hobli,
Basavanahalli Village, Nelamanagar,
Bangalore-562 123, Ph: (080)22948929/ 8975, Fax: (080)2294 6600

Kind Att:- Mr.S. Bhattacharya, e-mail: subhankar.bhattacharya@in.abb.com

SUB:: Up- gradation of existing AVR to DAVR (Digital AVR) for brushless excitation system in BHEL-make Steam Turbine Generator (STG#2) by Engineering, Design, Supply, Testing, Installation and Commissioning at (AGBP), NEEPCO LTD

Our Ref: 1) Tender No: NEEPCO/AGBP/C&I/2016-17/NIQ/03 Dtd 02/3/2017
2) NEEPCO/AGBP/C&I/T-55/2017-18/[illegible]/348 Dtd. 09/11/2017
3) NEEPCO/AGBP/C&I/T-55/2017-18/[illegible]/355 Dtd. 13/11/2017
1) Your offer ref: EAPDSE185B/RE/003/REP/001 04/10/18.

Dear Sir,

In reference to above the Corporation is pleased to place this Order with you for the supply and services of DAVR (Digital AVR), ABB-make for brushless excitation system of STG#2 of AGBP, NEEPCO Ltd.

Terms & conditions:

1. **Scope of contract**: The scope of supply includes supply of DAVR (Digital AVR) for brushless excitation system for BHEL-make Steam Turbine Generator (STG) as per Price Schedule enclosed along with this order, Annexure: I.
   Scope of services includes dismantling, installation, commissioning and testing of DAVR at AGBP, NEEPCO Ltd.
2. **Price Basis**:- Your total price of supply is Rs. 14,50,000.00/-(Rupees Fourteen lakh and Fifty thousand) only including P&F, insurance but excluding Freight.
   Your total price for Services is Rs. 90,000/-(Rupees Ninety thousand) only.
3. **Payment terms**:-
   a) For supply: (90 % of supply+100% of Taxes) shall be paid after receipt of materials at site in full and good condition & balance 10% is payable only after successful Installation & commissioning of the system.
   b) For Services, 100% + Taxes shall be paid after successful Installation & commissioning of the system at site.
4. **Taxes**: GST @ 18% and other taxes as applicable shall be paid extra by NEEPCO at actual. Our GST No: 18AAACN9991J3ZP.

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5. **Shipment, Freight & Insurance**: Your supply Price is inclusive of packing & forwarding, Shipment, Insurance but excluding of Freight. Freight charges shall be paid by NEEPCO at actual subject to submission of documentary evidence.
6. **Delivery Period**: The material shall be delivered within 4-months from the date of techno-commercially accepted P.O. The date of dispatch of the materials from the supplier's works will be considered as date of delivery. However, you are requested to complete the Supply & Services within 10th March,19
7. **Mode of Transportation**: You are responsible for safe transportation of the materials to AGBP, NEEPCO site on freight paid basis which shall be reimbursed at actual.
8. **Services**: Intimation of Site Readiness shall be conveyed and supplier shall complete the Installation, Commissioning and testing within the stipulated time.
9. **Warranty**: 18 months from the date of receipt of materials at site or 12 months from the date of commissioning whichever comes earlier.
10. **Fitment**: M/S ABB must ensure that materials supplied are suitably fit for Up- gradation of existing AVR at AGBP in STG#2. In case of any mismatch, the same must be replaced by M/S ABB at free of cost.
11. **LD clause**: NEEPCO,s standard LD clause is applicable and accordingly contact price shall reduce by ½ (half) percent per week because of delay in delivery of the material(s) subject to maximum of (10%) percent of the contract value.
12. **Pre dispatch Inspection and Testing**: Testing of the materials as per relevant standard shall be carried at contractor's works. The tests shall be performed in presence of the Corporation's representative. For deputation of an authorized representative for inspection and to witness such tests, advance intimation prior to the tests shall be given to the Corporation. The test certificates are to be forwarded for approval of the purchaser. However witness of tests or approval of tests reports shall not obsolve the supplier from its responsibility towards satisfactory fulfillment of contractual obligation.
13. **Consignee**: - The Sr. Manager (E/M), MMW, Ph-(0374) 2825411.
14. **Delivery destination**: Assam Gas Based Power Plant (AGBP), NEEPCO Ltd, Bokulonoi, District: Dibrugarh (ASSAM), PIN: 786 191.

Kindly convey your acceptance of this P.O.

Thanking you.

Yours truly,

Sr. Manager (E/M), C&I Division
AGBP, NEEPCO Ltd, Bokuloni,
Dibrugarh, Assam.

Annexture-1

Ref: NEEPCO/AGBP/C&I/T-52/2018-19/90NBT115/ 293 Dtd 23/11/2018

Schedule of Items & Prices

S/N	Item description	Unit Price in Rs.	Qty	Total Amt in Rs
1	Supply of DAVR, UNITROL®6080	14,50,000.00	01	14,50,000.00

1) Supply Of DAVR, UNITROL®6080 Includes

1.1) CONTROL ELECTRONICS

A) CONTROL CHANNEL INCLUDES:

O CONTROL COMMUNICATION MEASUREMENT BOARD

O POWER INTERFACE BOARD

O 3-PHASE (6-PULS) THYRISTOR CONVERTER WITH REQUIRED HEAT SINKS AND COOLING FAN(S)

SERVING FOR ALL REQUIRED REGULATION AND CONTROL FUNCTIONS WITH FOLLOWING FEATURES:

BASIC REGULATOR FUNCTIONS

SIGNAL ACQUISITION OF:

O SINGLE OR 3-PHASE MACHINE TERMINAL VOLTAGE AND CURRENT (U, I)

O SINGLE-PHASE MV-BUS TERMINAL VOLTAGE AND/OR CURRENT (U_s, I_s)

O THYRISTOR CONVERTER INPUT VOLTAGE (U_{SYN})

O THYRISTOR CONVERTER OUTPUT VOLTAGE (U_E)

O THYRISTOR CONVERTER CURRENT (I_E) FROM CT'S AT INCOMING LINES

AUTOMATIC VOLTAGE REGULATION TYPE: LEAD, LAG TYPE STIA ACC. TO IEEE STD 421.5-2006

Q AND/OR P DROOP/COMPENSATION (ACTIVE/REACTIVE POWER INFLUENCE): ABSOLUTE Q AND P INFLUENCE INDIVIDUAL ADJUSTABLE

AVR OE LIMITERS: AS PER YOUR REFERENCE BID.

O 2 Stage Field Current Limiter (Ceiling- And Delayed Thermal Current Limiting)

Delay Selectable: Fixed Time Or Over Current Dependent, Inverse, Very Inverse, Extremely Inverse (ANSI, IEC) -

O 2 Stator Current Limiters, One For Over-Excited And One For Under-Excited Area. During Delay Time No Limiting Function.-

*Delay Selectable: Fixed Time Or Over Current Dependent, Inverse, Very Inverse, Extremely Inverse (ANSI, IEC), Released Only If Machine Is ON-

LINE-

* V/Hz Limiter Delay Selectable: Fixed Time Or Over Current Dependent, Inverse, Very Inverse, Extremely Inverse (ANSI, IEC)

* Q (P) U2 Based Under Excitation Limiter.

*Manual Control(Field Current Regulator FCR) As Per Your Reference Bid

* Manual Limiters: As Per Your Reference Bid.

* Operation Control: 1) Controlling All Auxiliaries Of The Excitation System, 2) Sequence Control Of Whole Excitation System As Per Your Reference Bid.

*Monitoring And Protection Functions: 1) Machine And Bus PT/CT Monitoring, 2) Machine Armature Monitoring, 3) Machine Rotor And Rotor Excitation Monitoring, 4) Self Monitoring (Protection) Etc As Per Your Reference Bid.

1.2) Power Converter (Channel Hardware): 5 Different Converter Frames D1...D5 Cover The Range From 20 To 2000A Dc For AVR And SES Systems.

1.3) Human Machine Interface (HMI): Service Control Panel (SCP) Is Used For Local Operation Of The Excitation System, Display Of Actual Values, Parameter Settings, Event And Fault Recorder.

1.4) Interface Unit: Combined Input And Output For Interface Digital And Analogue Control Signals Of The Plant Including 12 Digital Input 24/48V, 18 Relay Output, 3 Analogue Input, 3 Analogue Output, 3 PT100 Or 2 PTC I/Ps For Transformer Temperature, Ethernet Interface, Serial Link For Insulation Monitor (RS-485).

1.5) Auxiliary Power Supply: Power Supply Schemes Includes Input Coupling Unit And Power Supply Units.

1.6) Field BRK, Suppression & Field Voltage Protection: This Includes 1-DC Brk, 2-Pole (-Q02) Type, 45 A, 1-Linear Discharge Resistor (-R02).

1.7) Additional Hardware: Shunt A/75 Mv (-R06)

1.8) Excitation Transformer **(Standby Source Of PMG):**

I) Type : Dry Type Cast Resin

Ii) Rated Apparent Power: 10 Kvah

Iii) Rated Primary Voltage : 415 V

Iv) No-Load Secondary Voltage: Bidder To Propose To Meet The Specification.

V) Rated Frequency : 50 Hz.

Vi) No Of Phases : 3 Phase

GE Measurement & Control

VIB MONITORING SYS

SL NO: 09 (2019-20)

SL NO: (05 + 06) (2020-21)

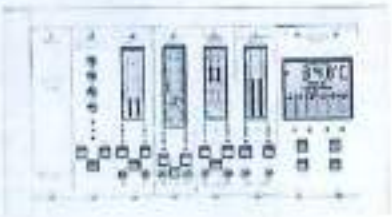
1/4

Product Life Cycle Support Notice

Bently Nevada* Asset Condition Monitoring

3300 Monitoring System Moving to Phase 5

May 2013



Our Product Life Cycle Management Program is intended to help you proactively plan the ongoing operation and maintenance of your Bently Nevada products by providing information on the availability of parts and support. Notices such as this are issued at life cycle milestones to inform you of changes and to provide recommendations on how to move forward.

Contents

Section	Page
Status Details	1
Affected Parts List	2
Product Support	2
Specific Recommendations	2
General Recommendations	2
Life Cycle Program Overview	3

Status Details

This notice is to inform you that the 3300 series monitoring system will transition to life cycle Phase 5 on **31 March 2014**.

The 3300 monitor system has a long history of reliable service. It first entered production in early 1988, transitioning to "spares only" status (Phase 3) in mid-2009, and to "repairs only" (Phase 4) in February, 2011. Due to component availability issues and the difficulty of fully supporting repairs we are now moving the 3300 series monitors to Phase 5 as of 31 March 2014. Note that the I/O's and backplanes (the I/O's are the 3300 Power Input Modules, Signal Input Modules, and Signal Input Relay Modules that install at the rear of the 3300 rack and remain in service after a 3500 ENCORE Rack Upgrade) will remain in Phase 3 until 2018 unless they were already in Phase 4 or 5 for a reason outside of this notice.

Phase 5 in our life cycle program means end of life obsolescence. Product repair is not available through Bently Nevada. In order to provide assistance to customers while migration plans are made we have set up a limited time program though a separate GE business that specializes in repair of obsolete GE products. This is described further in the section on Specific Recommendations.

Customers that have not already done so are advised to develop an appropriate migration plan to our newer monitoring technology. Please consult "Specific Recommendations" on page 2 of this notice for additional information on the various fully engineered migration options from 3300 to newer technology.

Affected Parts List

All versions and modules of GE's Bently Nevada 3300 series monitors (Excluding I/O's and backplanes). The following is a list of the current phases of each monitor. This notice affects those listed in P5 Status.

3300/00	P5	3300/16	P5
3300/02	P5	3300/17	P5
3300/03	P5	3300/18	P5
3300/04	P5	3300/20	P5
3300/05	P5	3300/21	P5
3300/06	P5	3300/47	P5
3300/07	P5	3300/48	P5
3300/11	P5	3300/50	P5
3300/12	P5	3300/52	P5
3300/13	P5	3300/53	P5
3300/14	P5	3300/54	P5
3300/15	P5	3300/55	P5
3300/16	P5	3300/61	P5
3300/17	P5	3300/65	P5
3300/18	P5	3300/70	P5
3300/19	P5	3300/75	P5
3300/20	P5	3300/80	P5
3300/21	P5	3300/81	P5
3300/25	P5	3300/85	P5
3300/26	P5	3300/90	P5
3300/30	P5	3300/95	P5
3300/32	P5		

Note: 3300 series proximity transducers are not affected by this notice

Product Support

For support information, contact our Bently Nevada technical support team by e-mailing bntechsupport@ge.com, by calling +1 775-215-1818 or by logging into www.bntechsupport.com.

You may also visit us at www.ge-energy.com/bently and navigate to Technical Support for a list of technical support phone numbers specific to your global location.

Specific Recommendations

Since its introduction in 1988, the Bently Nevada 3300 series monitoring system has served with distinction as a highly reliable solution for machinery protection and monitoring needs. However, as technology has advanced, it has become increasingly more difficult to find suppliers that manufacture the components on which the 3300 system relies.

Accordingly, our focus has transitioned from the ability to repair 3300 systems, to being able to offer new products that provide cost effective in-place upgrades and drop-in replacements for 3300 monitor systems. In addition to upgrade and replacement strategies we have set up a separate GE business as a limited time repair center for 3300 monitors in order to support you during the migration period.

After careful assessment, we have formalized the following support plan to help customers with their migration plan:

- Upgrades or replacements of 3300 systems to the 3500 ENCORE Series are eligible for discounts in the case that the 3300 modules are returned to Bently Nevada. This incentive program is termed the 3300 Buy-Back Program. The basic terms are:
    - 15% discount on the 3500 ENCORE hardware
    - 15% discount on the installation services for the 3500 ENCORE Series product
    - Discounts apply for:
        - Projects where the replaced 3300 modules are returned to Bently Nevada
        - Orders received by 31 September, 2013
        - Ship by end of year, 2013
        - Installation by the end of March, 2014.
    - Contact your Bently Nevada representative for more information on the 3500 ENCORE Series and this incentive program.
- For a limited time, repair of 3300 modules will be supported through a separate GE business that specializes in repair of obsolete and legacy GE products. The capability to provide this repair service is based solely on using components from the 3300 modules returned as part of the 3500 ENCORE upgrade and replacement incentive program. Contact your Bently Nevada representative.
- 3300 I/O modules that remain in service after a 3500 ENCORE Rack Upgrade are planned to remain in Lifecycle

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Phase 3 until 2018 excluding major component availability problems or inventory depletion.

- Field verification and troubleshooting services will continue to be available for 3300 monitor systems. While we are committed to provide field service as long as practical, we cannot guarantee that problems encountered by the field service engineers can be corrected due to the inability to repair 3300 modules in most cases.

GE recommends that all 3300 monitoring system customers consult with their local sales professional specializing in Bently Nevada Asset Condition Monitoring to develop an appropriate migration strategy. This strategy should take into account the timeline for Phase 5 outlined above, the planned outage schedules for affected machines, and other relevant details.

We are acutely aware that migration to a newer platform must address the cost-benefit considerations of advanced functionality versus the disruption that system replacement represents. Some customers will place primary emphasis on advanced functionality, with less concern for installation convenience. Others will place primary emphasis on minimal disruption, preferring an "in-place" rack upgrade that preserves field wiring terminations, panel cutouts, and other installation details. Our 3300 migration options will reflect these differing needs, allowing customers multiple choices.

Several migration options exist today. Our 3500 ENCORE Series provides two of those, a simple rack upgrade, the 3500 ENCORE Rack Upgrade, that leaves the 3300 rack, IO, and field wiring terminations in place, and another, an entirely new drop-in 3300 replacement, the 3500 ENCORE System, that replaces the 3300 rack and IO but is designed in chassis sizes that fit the 3300 panel cutout. And, there is always our industry leading 3500 monitor system. The appropriateness of a particular option will vary on a case-by-case basis for each customer depending on their existing 3300 installation, current and future functionality requirements, anticipated service life of the machine being monitored and other details. Your GE sales professional can assist you in understanding these options and evaluating their suitability for your specific situation.

General Recommendations

GE recommends that as new technologies become available, our customers take the opportunity to improve their machinery protection and condition monitoring systems. This allows them to keep pace with continually increasing competitive and regulatory demands for physical asset management, machinery protection, and equipment reliability/availability. Systems approaching obsolescence cannot provide the same level of data access, analysis, and monitoring capabilities that are available from newer product offerings in our Bently Nevada portfolio. Given the multi-year window provided between Phases 3 and 5 in our life cycle management program, customers are encouraged to evaluate the costs of maintaining their current systems against the benefits of migrating to newer platforms.

As GE introduces new Bently Nevada Asset Condition Monitoring products, they are often designed with backward compatibility in mind, allowing the transition from older systems to newer systems with a minimum of disruption and inconvenience. For more information, please contact your nearest GE sales professional specializing in Bently Nevada Asset Condition Monitoring products, or visit us at www.ge-energy.com/bently.

Life Cycle Program Overview

Bently Nevada Asset Condition Monitoring hardware utilizes a life cycle management program consisting of five basic phases:

- **Phase 1: Product Release**
  Hardware is released for sale with full support including ongoing enhancements, custom modifications, new spare parts, and full repair capabilities.
- **Phase 2: Mature Product**
  Same as Phase 1 except that no new enhancements are planned. Custom modifications are still available, but discouraged. A notification of last time to buy new systems is typically issued several months before transitioning to Phase 3.

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- **Phase 3: Spares Only**
  Product is no longer available for new installations and no new custom modifications are available. New spare parts (including those for existing custom modifications) are still available, and repair and support are provided as in Phases 1 and 2. A notification of last time to buy spare parts is typically issued several months[1] before transitioning to Phase 4.
- **Phase 4: No Spares, Limited Support**
  New spare parts are no longer available and support is limited to repair, exchange, or remanufacture (subject to component availability). Notice of last date to repair is typically issued several months[1] before transitioning to Phase 5.
- **Phase 5: Obsolete**
  The product has no or limited support[2] and is not recommended for continued use in a machinery protection application. Customers are advised to migrate to an appropriate replacement product with the assistance of their GE sales professional specializing in Bently Nevada Asset Condition Monitoring.

Notes

1 While reasonable efforts are made to provide timely notices, GE cannot guarantee minimum timeframes for advance notification.

2 Continued support availability in this Phase is subject to change without notice.

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North Eastern Electric Power Corporation Ltd.
(A Govt.of India Enterprise)
ASSAM GAS BASED POWER PLANT

NO.NEEPCO/AGBP/C&I/T-52/2018-19/90N8I129/285 Dtd.22/11/2018.

To
M/S GE Oil & Gas India Pvt. Ltd,
(Div Bently Nevada),
A-78/1, CHAKAN MIDC Phase-II,
Vasuli village, KHED Taluka,
Pune, Mahastra, Pin-410 501

SUB: P.O.for Up gradation of Vibration monitoring system & Temperature Monitoring system of STG#1 & 2-**(Supply portion).**

Ref: 1) Our Ref: NEEPCO/AGBP/C&I/T-52/2018-19/129 Dtd. 13/2/2018.
2) LOI ref.: NEEPCO/AGBP/C&I/T-52/2018-19/276 Dtd.15/11/2018
3) Offer reference: 1912322 Rev 02.

Dear Sir,

In reference to the above corporation is pleased to place this P.O. for Up-gradation of Vibration monitoring system & Temperature Monitoring system of STG#1 & 2 at AGBP, NEEPCO Ltd, Bokuloni.

a) **Basic Price of P.O.**

1) Field devices	2-SET	99,98,576.00
2) Monitoring System	2-SET	
Basic Price for 02(two) units		99,98,576.00
@Rs99,98,576/-(Rupees Ninety-Nine Lac, Ninety-Eight thousand, Five hundred and Seventy-Six) only.		

b) **Terms & Conditions are as below: -**

1. **Price Basis:** - The Price indicated above is Ex-work (Pune) basis including packing and forwarding but excluding any tax, duty or levy that may be imposed in India and which, if applicable, shall be borne by NEEPCO at actual.
2. **Taxes:** GST @ 18% shall be paid extra against tax invoice. Our GST no is 18AAACN9991J3ZP.
3. **Payment terms:** - 90% payment against dispatch document through bank with taxes and balance 10% is payable after receipt of material in full and good conditions through RTGS/NEFT within 30 days of receipt of material. **Bank charge is chargeable to the supplier account.** Dispatch document must include copy of all document including Consignment note, challan, Warranty certificate etc.
4. **Freight:** Supplier shall have to send the material to AGBP, NEEPCO through reputed transporter on freight paid basis and the same shall be reimbursed at actual against documentary evidence.

5. **Insurance:** Prior to dispatch Supplier shall inform to The Sr. Manager (E/M), MMW, AGBP for insurance coverage of the consignment. Accordingly, The Sr. Manager (E/M), MMW, AGBP shall make necessary arrangement for transit insurance cover under NEEPCO's open marine insurance policy.
6. **LD clause:** An amount of 0.5% of Contract value per week shall be deducted from the basic value of P.O subject to maximum of 5% of the basic value of P.O. for delay in delivery of the material. LD shall be the sole and exclusive remedy for delay in delivery.
7. **PBG:** 10% of basic value for which Supplier shall have to submit BG of Nationalized Bank in India. BG format shall be mutually discussed and agreed.
8. **Delivery period:** The material shall be delivered within 26 weeks from the date of receipt of confirmed P.O.
9. **Warranty:** Warranty coverage of the materials shall be 24 months from date of supply or 18 months from the date of commissioning whichever is earlier. Seller shall not be responsible for removal of Buyer's facility.
10. **Delivery destination and Consignee:** The Sr. Manager (E/M), MMW, AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin: 786191.
11. **Paying Authority:** The Sr. Manager (F&A), AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin: 786191.
12. **Bill of materials shall be as per Annex: A**

All other terms & conditions are as per your offer and both way official communications. Kindly convey your acceptance to the Purchase Order and execute the same as early as possible.

Thanking you.

Yours faithfully,

Sr. Manager (E/M), C&I Division,
AGBP, NEEPCO Ltd, Bokuloni.

==========X==========

ANNEXURE: A

Bill of materials

S/N	Part No	Item Description	Qty for 2 m/cs
a) Monitoring system			
01	3500/05	0500 19" Rack	02
02	3500/15	Power supply modules	02
03	3500/22M	Transient data Interface modules	02
04	3500/25M	Enhanced Keyphasor modules for ST-Keyphasor	02
05	3500/45	Proximitor/Seismic monitor for differential & casing expansion.	02
06	3500/42M	Proximitor /Seismic monitor for ST front vibration/rear vibration/ ST axial thrust-dual & Eccentricity	10
07	3500/65	ST-front/rear bearing temperature module	02
08	3500/33	16-channel relay card.	02
09	3500/92	Common module Ethernet.	02
10	3500/94M	VGA display	02
11	3500/01	Configuration software	01
12	Bently Manuals	----------	01
b) Field devices:			
01	330105-02-12-10-02-05	Proximity Probe (5mm)	12x2=24
02	330103-040-00-05	Proximitor	12x2=24
03	330180-05-05	Extension Cable	12x2=24
04	26530-00-00-03-025-035-00-03-00	Probe Housing	08x2=16
05	9200-09-15-03-00	Velocity Probe	08x2=16
06	84660-30	Seismo- probe Cable	08x2=16
07	330705	11 mm Reverse mounting Probe.	02x2=04
08	330780-50-05	Proximitor	02x2=04
09	330730-040-00-05	Extension Cable	02x2=04
10	24765-02-01	LVDT	01x2=2

22/11/2012

NO: NEEPCO/AGBP/C&I/T-52/2018-19/ 934 · Dtd. 27/12/2018

To

M/S GE Oil & Gas India Pvt. Ltd,

(Div Bently Nevada),

A-78/1, CHAKAN MIDC Phase-II,

Vasuli village, KHED Taluka,

Pune, Mahastra, Pin-410 501

SUB: Supervision of Installation, Configuration and Commissioning of Vibration monitoring & Temperature Monitoring system of STG#1 & 2 (Service portion of up gradation)

Ref: - 1) Offer reference: 1912322 Rev 00-Services.
2) NEEPCO/AGBP/C&I/T-52/2018-19/90NBI129/285 Dtd.22/11/2018

Dear Sir,

In reference to the above we are pleased to place this work order with you for Supervision of Installation, Configuration and Commissioning of Vibration monitoring & Temperature Monitoring system of STG#1 & 2 (Service portion) at AGBP, NEEPCO Ltd, Assam.

a) Basic Price of W.O.

Particulars	Qty	Total basic price (Rs)
Supervision of Installation, Configuration and Commissioning of Vibration monitoring & Temperature Monitoring system of STG#1 & 2	2-SET	9,47,783.65
~~Rs. 9,47,784/-(Rupees Nine Lakh, Forty-Seven thousand, Seven hundred and Eighty-Four) only		

b) Terms & Conditions are as below: -

1. **Price Basis**: - The Price indicated above is Basic price in INR for two units.
2. **Taxes**: GST @ 18% or at actual shall be extra to be paid by NEEPCO.
3. **Payment terms**: - 100% payment after successful installation & commissioning of the systems within 30 days through RTGS/NEFT against submission of 1) Invoice in triplicate, 2) Completion certificate, 3) Supplier's bank details etc. Bank charges if any is chargeable to the supplier account.

4. **Paying Authority**: The Sr. Manager (F&A), AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin: 786191
5. **Others**: a) To & fro air fare is inclusive.
   b) Local conveyance is inclusive.
   c) Boarding & lodging at NEEPCO's Guest House is chargeable if requested for.

Thanking you.

Yours faithfully,

Sr. Manager (E/M), C&I Division,
AGBP, NEEPCO Ltd, Bokuloni.

==========

No. NEEPCO/AGBP/HOP/2018-19/W-8(A)/ 66 Dated 30/4/18

To,

M/S Mitsubishi Corporation,
Power Systems International Deptt.
New Energy and Power Generation Division,
3-1, Marunouchi 2-Chome, Chiyoda-Ku,
Tokyo – 100-8086, Japan. (Fax No. 011 – 4368 2333)

Sub: NEEPCO/AGBP – Detailed Order for Technical Advisory Services for Turbine Inspection of MHI make Gas Turbine Unit # 4 (Model No. MW251B)

Ref: 1. Our letter No. NEEPCO/AGBP/GT&Aux /W-25/2017-18/268 Dated 19/01/2018
2. Your offer No. XAF-NEEPCO- 825P312-TA Dated 25/01/2018
3. Our LOI issued vide No. NEEPCO/AGBP/HOP/2018-19/W-8(A)/41 Dated 18/04/2018
4. Your acceptance letter No. ENY/XA-F652 Dated 24/04/2018

Dear Sir,

With reference to above, the Corporation is pleased to place this detailed order for Technical Advisory Services for Turbine Inspection of MHI make Gas Turbine Unit # 4 (Model No. MW251B) of Assam Gas Based Power Plant at your offered rates and as per the following terms and conditions.

1. **Scope:**

Mitsubishi Corporation shall provide NEEPCO AGBP with technical advisory services by deputing required Technical Advisors for Turbine Inspection of MHI make Gas Turbine Unit # 4.

2. **Price:**

A. **Technical Advisory Services Fees:**

The estimated price for the above referred services is JPY 12,414,040.00 (Japanese Yen Twelve Million Four Hundred Fourteen Thousand Forty) only excluding TDS. The above mentioned price is an estimated price which includes supervisory services fees for working days as well as journey periods, overtime fees, travel expenses (air fare) and lodging at New Delhi. The actual price payable shall be calculated based on the following rates:

Sl.	Item	Price (Japanese Yen)
i	Normal working day rate (working hours shall be 8 hours or part thereof)	1,51,100 / man day
ii	Overtime work hourly rate for any hours worked beyond 8 hours per day from Monday to Friday	24,500 / man hour
iii	Normal work hourly rate for Saturday, Sunday & local holidays in India	24,500 / man-hour
iv	Overtime work hourly rate for any hours worked beyond 8 hours per day on Saturday, Sunday & local holidays in India	26,700 / man-hour

The above rates for holidays shall be applicable for the New Year holidays in Japan (i.e. 29th December to 3rd January every year)

The above rates are net receivable amounts and do not include any kind of tax and duties levied in India which are to be paid at actuals by NEEPCO. LC shall be opened for an amount of JPY 14,896,848 which is 120% of the estimated amount of JPY 12,414,040 on receipt of confirmation of acceptance of this order.

B. **Expenses:**

a) Traveling expenses such as airfares (business class for international flights) are invoiced at

actual cost.

b) Lodging is arranged and paid for by the Purchaser to the concerned party.

c) Telephone, Telefax and telex communications are invoiced at actual cost if such costs are paid and borne by the Supervisor(s) during the performance of their duties.

d) Any miscellaneous expenses including food and drink during the stay at site will be reimbursed at actuals against documentary evidence.

3. **Terms of payment:**

Payment shall be made in Japanese Yen by an irrevocable, confirmed and non-restricted Letter of Credit (LC) to be established **for the estimated amount mentioned** above in favour of Mitsubishi Corporation, Tokyo (Attn. ENY/XA-F)] confirmed by a first class bank of Japan, Europe or USA and which shall be payable against presentation of at sight draft accompanied by the following documents, without restriction on negotiating bank with sufficient validity to cover bank negotation. LC opening charges, confirmation charges and other bank charges in India shall be borne and paid by NEEPCO and bank charges outside India (except LC confirmation charges) shall be borne by Mitsubishi Corporation.

i) Mitsubishi Corporation's detailed invoice
ii) Copies of air tickets
iii) Hotel Invoices
iv) Working time sheet duly signed by NEEPCO

4. **Schedule of Inspection:**

The tentative date for Turbine Inspection of MHI makes Gas Turbine Unit # 4 (Model No. MW251B) is scheduled tentatively in October / November, 2018. The exact date will be intimated in due course. Accordingly, your MHI TA must be available at site for commencement of the inspection activities during that period.

5. **Documents:**

Copies of documents shall be forwarded to the ordering authority with copies to the GM (Finance) Corporate Treasury, NEEPCO Ltd., Brook land Compound, Lower New Colony, Shillong – 793003 (Fax No. 0364 – 2228542).

6. **Engineer –in- Charge:**

Sr. Manager (E/M) GT& Aux or any other Engineer authorized by Head of Project, AGBP.

Kindly acknowledge receipt and confirm acceptance of this order. The above mentioned LC will be opened immediately on receipt of the confirmation of acceptance of this order.

Thanking you,

Yours faithfully,

30/4/18

Sr. Manager (E/M)
For & on behalf of
General Manager & Head of Project

NIO
Memo No. NEEPCO/AGBP/HOP/2018-19/W-8(A)/ 67-71 Dated 30/4/18

Copy to

1. The Executive Director (O&M), NEEPCO Ltd., Shillong - for kind perusal please. This has reference to his approval conveyed vide U.O. No 52 Dated 11/04/2018
2. The GM (Fin) CT, NEEPCO Ltd., Shillong. Enclosed a copy of the approval
3. The Sr. Manager (E/M), GT & Aux, AGBP
4. The Sr. M (Fin), AGBP, NEEPCO Ltd., Bokuloni. Enclosed a copy of the approval
5. The Sr. Manager (E/M), Vigilance wing, AGBP, NEEPCO Ltd.

30/4/18

Sr. Manager (E/M)
For & on behalf of
General Manager & Head of Project

Fax No. 011-26186904

प्राधिकरण
Central Electricity Authority
तापीय नवीनीकरण परियोजना एवं आधुनिकीकरण प्रभाग
Thermal Project Renovation and Modernisation Division
सेवा भवन, नवम तल (3)
Sewa Bhawan, 9th Floor, (N)
नई दिल्ली - 110 066
New Delhi - 110066

Dated: 27-08-2015

No.2/3/Misc./TPRM/CEA/2015/765

Sub: Identification of TPS units required R&M/LE during 13th Plan period

In the meeting of Ad-hoc Task Force (ATF) on RFD of Ministry of Power (MOP) convened on 02.04.2013, it has been stressed upon that Power Utilities should take up R&M / LE works on at least 20% of units which qualify for R&M and LE interventions. As per CEA guidelines, units above 15 years old qualify for Mid Life R&M works whereas units above 25 years qualify for comprehensive R&M works for Life Extension.

In view of the above you are requested to intimate the units for which R&M/LE works shall be taken up during the 13th Plan Period i.e. 2017-22 under two categories as furnished below:

(a) Mid Life R&M works of units completing 15-25 years of plant life on 31.03.2017.
(b) Comprehensive R&M works for Life Extension of units completing 25 years of plant life on 31.03.2017.

Further, you are also requested to furnish the unit wise preparedness regarding taking up the R&M/LE works viz. RLA/CA studies completed, Scope of works finalized, DPR prepared, funds tied up etc.

(भाई लाल)
मुख्य अभियंता

To:

1. The General Manager (R&M-Engg.), National Thermal Power Corporation Ltd. Engineering Office Complex, A-8A, Sector-24, Noida-201301 (Fax: 0120-2410015/2410136)

2. Director (Technical), NEEPCO Ltd., Brook Land Compound, Lower New Colony, Shilong-793003 (Fax No. 0364-2228520)

No. NEEPCO/AGBP/PEM/O&M-01/2018-19/247 Date- 15-09-2018

To,

ADDL. GENERAL MANAGER (C,S&T)/SG
BHARAT HEAVY ELECTRICALS LIMITED
SWITCHGEAR COMMERCIAL DEPARTMENT
03 ANNEXE, GROUND FLOOR
BHARAT HEAVY ELECTRICALS LIMITED,
RAMACHANDRA PURAM (R.C. PURAM)
HYDERABAD- 502 032 (TELENGANA)

Sub:- Supply of Main Valve Assembly (Drawing No.15184005331-A) for 245KV SF_6 Circuit Breaker (Type:3AV1) to AGBP, NEEPCO Ltd.

Ref:- 1. Our letter no. NEEPCO/AGBP/PEM/O&M-01/2017-18/242 dtd. 20/10/2017.
2. Your offer no. HY/SG-SP/Q . No. 2017 064 dtd. 21/10/2017.
3. Our Purchase Order No. **NEEPCO/AGBP/PEM/O&M-01/2017-18/39NBH079/323 Dtd. 16/11/2017**

Dear Sirs,

With reference to the above, we would like to intimate you that the ordered material against the Purchase Order under reference at Sl. No. 3 is presently very much urgent for us. As such, kindly expedite the delivery materials as listed below as early as possible.

Item

Sl.	Item Description	Rate (Rs)	Qty (nos.)	Price (Rs)
1.	MAIN VALVE ASSEMBLY, SAP MATL. CODE/DRAWING NO. 15184005331-A (HSN CODE: 85381090)	1,02,185.00	6	6,13,110.00
			Total	6,13,110.00

(Rupees six lakh sixty thirteen thousand one hundred ten) only

Your prompt action in this regard is highly solicited.

Thanking you,

Yours faithfully,

(Dinabandhu Baishya)
Sr. Manager (E/M), PEM
AGBP, NEEPCO Ltd.
Dist: Dibrugarh, Assam.
PIN: 786 191.
Contact No. 9435339966

1/1

rediffmail Mailbox of pem.agbp

Subject: Urgent Requirement of materials against Purchase Order for Supply of Main Valve assemly for 245KV SF6 CB to AGBP, NEEPCO LTD., Bokuloni, Dibrugarh

From: Dinabandhu Baishya <dinabandhu.baishya@rediffmail.com> on Sat, 15 Sep 2018 18:14:14

To: "KRISHNA MURTHY" <skm10527@bhel.in>, "Krishna Murthy" <skm10527@bhelhyd.co.in>, "BHEL ROD" <rodguwahat@rediffmail.com>

Cc: "pemagbp" <pem.agbp@rediffmail.com>

1 attachment(s) - Reminder_BHEL_MainValve_15.09.2018.pdf (204.36KB)

Sir,

In continuation to our earlier request, Please find the attachment of letter for ***Urgent Requirement of materials against Purchase Order for Supply of Main Valve assemly*** *for 245KV SF6 CB to AGBP, NEEPCO LTD., Bokuloni, Dibrugarh.*
You are requested to kindly acknowledge the receipt of this order and conveyance your acceptance.
Your early confirmations in this regards is highly appreciated
Regards.

Dinabandhu Baishya
Sr. Manager (E/M), PEM,
AGBP, NEEPCO LTD., Bokuloni
(Phone: 0374-2825215; Mobile: 9435339966)

No. NEEPCO/AGBP/PEM/O&M-01/2018-19/ 284. Date- 28/9/18

To,

ADDL. GENERAL MANAGER (C,S&T)/SG
BHARAT HEAVY ELECTRICALS LIMITED
SWITCHGEAR COMMERCIAL DEPARTMENT
03 ANNEXE, GROUND FLOOR
BHARAT HEAVY ELECTRICALS LIMITED,
RAMACHANDRA PURAM (R.C. PURAM)
HYDERABAD- 502 032 (TELENGANA)

E-MAIL: SKM10527@BHEL.IN , MV@BHEL.IN
BODGUWAHATI@REDIFFMAIL.COM
VTSWAMY@BHELHYD.CO.IN
FINANCE@BHELHYD.CO.IN

Sub: - Supply of Main Valve Assembly (Drawing No.15184005331-A) for 245KV SF_6 Circuit Breaker (Type:3AV1) to AGBP, NEEPCO Ltd.

Ref: -
1. Our letter no. NEEPCO/AGBP/PEM/O&M-01/2017-18/242 dtd. 20/10/2017.
2. Your offer no. HY/SG-SP/Q . No. 2017 064 dtd. 21/10/2017.
3. Our Purchase Order No. **NEEPCO/AGBP/PEM/O&M-01/2017-18/39NBH079/323 Dtd. 16/11/2017.**
4. Our letter no. NEEPCO/AGBP/PEM/O&M-01/2018-19/247 dtd. 15/09/2018.

Dear Sirs,

With reference to the above, we would like to draw your kind attention that the ordered material against the Purchase Order under reference at Sl. No. 3 is presently very much urgent for us. As such, kindly expedite the delivery materials as listed below as early as possible. On reediness of materials or part of the materials, please intimate the undersigned and a scan copy of Invoice and a dully filled up **'data requisition form'** for e-way may please be submitted for the necessary e-way bill. Please treat the matter urgently.

Item

Sl.	Item Description	Rate (Rs)	Qty (nos.)	Price (Rs)
1.	MAIN VALVE ASSEMBLY, SAP MATL. CODE/DRAWING NO. 15184005331-A (HSN CODE: 85381090)	1,02,185.00	6	6,13,110.00
			Total	6,13,110.00

(Rupees six lakh sixty thirteen thousand one hundred ten) only

Your prompt action in this regard is highly solicited.

Thanking you,

Yours faithfully
28/09/18

(Dinabandhu Baishya)
Sr. Manager (E/M), PEM
AGBP, NEEPCO Ltd.
Dist: Dibrugarh, Assam.
PIN: 786 191.
Contact No. 9435339966

1/1

rediffmail

Subject: Urgent Requirement of Main Valve assemly for 245KV SF6 CB to AGBP, NEEPCO LTD., Bokuloni, Dibrugarh.

From: Dinabandhu Baishya<dinabandhu.baishya@rediffmail.com>

To: "mv"<mw@bhel.in>,"KRISHNA MURTHY"<skm10527@bhel.in>,"BHEL ROD"<rodguwahati@rediffmail.com>

Cc: "pemagbp"<pem.agbp@rediffmail.com>,"krishnendu basu"<kbasu@bhelpser.co.in>

1 attachment(s) - Letter_Reminder_BHEL_MainValve_28.9.2018.pdf (213.22KB)

Sir,

In continuation to our earlier request and subsequent letter dtd.15.9.2018. *Please find the attachment of letter for* **Urgent Requirement of materials against Purchase Order for Supply of Main Valve assemly** *for 245KV SF6 CB to AGBP, NEEPCO LTD., Bokuloni, Dibrugarh.*

You are requested to kindly acknowledge the receipt of this order and conveyance your acceptance.

Your early confirmations in this regards is highly appreciated

Regards.

Dinabandhu Baishya
Sr. Manager (E/M), PEM,
AGBP, NEEPCO LTD., Bokuloni
(Phone: 0374-2825215; Mobile: 9435339966)

E-mail:pem.agbp@rediffmail.com

No. NEEPCO/AGBP/PEM/O&M-01/2018-19/291 Dtd. 28/09/2018

To,

ADDL. GENERAL MANAGER (C,S&T)/SG
BHARAT HEAVY ELECTRICALS LIMITED
SWITCHGEAR COMMERCIAL DEPARTMENT
03 ANNEXE, GROUND FLOOR
BHARAT HEAVY ELECTRICALS LIMITED,
RAMACHANDRA PURAM (R.C. PURAM)
HYDERABAD502 032 (TELENGANA)

E-MAIL: SKM10527@BHEL.IN , MV@BHEL.IN
RODGUWAHATI@REDIFFMAIL.COM
VTSWAMY@BHELHYD.CO.IN

Sub: - Request for submitting a budgetary offer for repairing of 245 KV SF6 (Valves & Hydraulic pump) items at BHEL works.

Dear Sirs,

With reference to the above, we would like to intimate you that we are having 5 (five) nos. of Main Valve and Pilot Valve Assembly (Drawing No.15184005331-A) and 4 (four) Nos. Hydraulic pumps (Drg. No. 15182001465-C) for 245KV SF_6 Circuit Breaker (Type: 3AV1) that were found to be not working after long period of service. Now, we would like to repair these 245 KV SF6 (Valve) items and Hydraulic pump set at BHEL works. As such, you are requested to kindly submit **a budgetary offer** along with **terms and conditions and procedure of repairing these old** 245 KV SF6 (Valves & Hydraulic Pump) items at BHEL works.

In this connection, we would like to intimate you that we have placed the Purchase Orders to BHEL, Hyderabad for procurement of Main Valve Assembly and Hydraulic Pump sets well in advance vide our P.O. No. **NEEPCO/AGBP/PEM/O&M-01 / 2017-18/39NBH079/323 Dtd. 16/11/2017 & NEEPCO/ AGBP/ PEM / O&M-01/2017-18/ 39NBH127/597 Dtd. 22/03/2018** respectively. But the deliveries of the materials are not ascertained till date. Meanwhile, the stock of the above mentioned item has got exhausted, as such, during this crucial period there is no other option but to repair the old items at the earliest so that in case of failure of any SF6 Circuit breakers due to these items, same can be managed with the repaired one and the unit can restore without any delay.

Considering above, your kind corporation and response of this letter is highly solicited.

Thanking you,

Yours faithfully,

28/09/18

(Dinabandhu Baishya)
Sr. Manager (E/M), PEM
AGBP, NEEPCO Ltd.
Dist: Dibrugarh, Assam.
PIN: 786 191.
Contact No. 9435339966

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
BHARAT HEAVY ELECTRICALS LIMITED
भारी विद्युत उपकरण संयंत्र, रामचंद्रापुरम, हैदराबाद - 502032
Heavy Power Equipment Plant, Ramachandrapuram, Hyderabad-502032
स्विच गियर-वाणिज्यिक एवं सेवाएं तथा परीक्षण विभाग, फोन (040) 23185267, 23182267
Switchgear Commercial, Services & Testing Department, Ph: (040) 23185267, 23182267
फैक्स FAX : 040-23186096, ई-मेल e-mail : skm10527@bhel.in

संदर्भ Ref: HY/SG-SP/NEEPCO/Dibrugarh/SSN0107002/W-1284900964/17-18

दिनांक Dt : 08.06.2018

सेवा में To,
The Sr. Manager(E/M), PEM
M/S N E E P CO Ltd.
A G B P P
P.O: Bokuloni Chariali - 786191
Dist: Dibrugarh(Assam)

Attn: Sri. Dinabandhu Baishya
Tel.No: 0374 - 2825216
Fax No.:0374 - 2825349
e mail: dinabandhu.baishya@ rediffmail.com
Mobile: 09435339966

विषय: **Sub:** - Request for cancellation of P.O for supply of spares to 245 KV SF6 CBs type 3AV1.

संदर्भ: **Ref:** - 1) Your P.O. No: NEEPCO/AGBP/PEM-01/2017-18/39NB/597, Dt: 22.03.2018
2) Our Sale Order No. SSN0107002/ W-1284900964

महोदय Dear Sir,

With reference to the above P.O., 6 Nos of Motor Pump Set (without Gear Box) to Material code: 15182001465-C were to be supplied to NEEPCO, AGBP, Bokuloni for use in 245 KV SF6 CB type 3AV1.

We have been in touch with our supplier for supply of Hydraulic pump (a part of the motor Pump set) for supply of the same. For a long time there has been no reply on the status of supply of the hydraulic pumps. Recently the supplier has responded & indicated that he cannot supply the pump as he has dismantled the facility for manufacture & testing of the pump & hence has regretted for supply of Pump.

He being the sole supplier established by us for supply of the pump, we are not in a position to move forward for supply of the ordered item (Motor Pump Set- without gear box to Material code 15182001465-C). Hence we request you to cancel the P.O. No. NEEPCO/AGBP/PEM-01/2017-18/39NB/597, Dt: 22.03.2018.

We are making efforts for establish a new supplier for the pump. We shall revert back to you on establishment of a new supplier.

An early reply from your end is solicited.
धन्यवाद Thanking you,

भवदीय
Yours faithfully
कृते भारत हेवी इलेक्ट्रिकल्स लिमिटेड
For BHARAT HEAVY ELECTRICALS LIMITED.

एस के मूर्ति
(एस.के. मूर्ति)
(S.K. MURTHY)
अपर महा प्रबंधक (सी, एस & टी)/एसजी
AGM (C, S&T)/SG

Enc: Copy of P.O for reference.

NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd. 12/09/2019

To,

M/S ABB India Limited.
Power Grid High Voltage Service, Maneja Works,
Vadodara, Gujarat-390013

Email:ajay.k.dubey@in.abb.com; Mobile no: +919724334061

Sub: Detailed Order for Design, Manufacturing, Supply, Retrofitting, Testing and Commissioning of 8(eight) no 245KV SF6 Spring Operated Mechanism Circuit Breaker as per Breaker Standard IEC 62271-100 by dismantling old existing BHEL make 245KV SF6 CB including Mandatory Spare Parts and AMC.

Ref. No. 1. NEEPCO/AGBP/PEM/O&M-01/2018-19/06 dtd. 13/02/2019 (Tender ID: 2019_NEEPC_21736_1).
2. NEEPCO/AGBP/PEM/O&M-01/2018-19/609 dtd. 15/03/2019 (Corrigendum-1).
3. NEEPCO/AGBP/PEM/O&M-01/2018-19/631 dtd. 29/03/2019 (Corrigendum-2).
4. NEEPCO/AGBP/PEM/O&M-01/2019-20/16 dtd. 23/04/2019 (Corrigendum-3).
5. NEEPCO/AGBP/PEM/O&M-01/2019-20/57 dtd. 14/05/2019 (Corrigendum-4).
5. Your Offer against the tender.
6. Request for Clarifications vide NEEPCO/AGBP/PEM/O&M-01/2019-20/156 dtd. 06/07/2019 & email dtd. 06/07/2019
7. Your clarifications vide Ref.: PGHV-S/NEEPCO/1 dtd.15/7/2019.
8. NEEPCO/AGBP/PEM/O&M-01/19-20/304 dtd.01/8/2019 for intimation on evaluation report of tech-com bid & opening of price bid.
9. NEEPCO/AGBP/PEM/O&M-01/2019-20/314 dtd. 07/08/2019 for intimation of e-RA.
10. Auction Corrigendum Details of Govt. eProcurement system dtd. 08/08/2019
11. Auction Hall History and Tender Cum Auction Details of Govt. eProcurement system dtd. 09/08/2019
12. Confirmation of Final Price in Reverse Auction of Bid ID-85040 dtd.19/4/2019 via email dtd.09/08/2019.
13. LOI vide NEEPCO/AGBP/PEM/O&M-01/2019-20/339 dtd. 29/08/2019.
14. Your acknowledgement & acceptance of LOI via email dtd. 07/09/2019 & dtd.12/09/2019

Sir,

With reference to above, the Corporation is pleased to issue this Detailed Order for Design, Manufacturing, Supply, Retrofitting, Testing and Commissioning of 8(eight) no 245KV SF6 Spring Operated Mechanism Circuit Breaker as per Breaker Standard IEC 62271-100 by dismantling old existing BHEL make 245KV SF6 CB including Mandatory Spare Parts and AMC Mandatory Spare Parts required for 5 years of normal operation of the Circuit Breaker and Annual maintenance Contract (AMC) of each equipment for AGBP, NEEPCO Ltd. as per following terms and conditions.

1. **Scope of Contract:** Design, Engineering, Manufacture, Inspection and Testing at Manufacturer's works before dispatch of 245 KV SF6 (Spring operated mechanism) CB, Packing & Forwarding, Supply, Transportation to site, Insurance from the source of supply till commissioning, Material Handling, Loading and unloading, Storage at Site, Dismantling of old existing BHEL make 245 KV SF6 (Hydraulic operated) Circuit Breaker, Retrofitting/Erection, Testing and Commissioning of new 8(eight) no 245 KV SF6 Spring Operated Circuit Breaker at AGBP, NEEPCO LTD., Bokuloni, Dibrugarh, Assam as per required technical specifications & scope of contract as detailed in **Annexure-B & C.**

2. **Prices:** The Prices are FOR AGBP, NEEPCO, Bokuloni basis. Total Basic Price for Supply, Dismantling, Retrofitting/Installation, Testing, Commissioning, Mandatory spares and AMC shall be for an amount Rs.1,50,20,133.00 (Rupees one crore fifty lakh twenty thousand one hundred thirty three) and Total Price for same shall be Rs 1,83,11,218.00 (Rupees one crore eighty three lakh eleven thousand two hundreds eighteen) only inclusive of all applicable taxes (GST), duties, freight & transit insurance, levies etc. as detailed in **Annexure-A (Schedule of Price).** *However, freight charges shall be paid at actual basis subjected to submission of documentary evidences.* The prices shall remain FIRM for the entire period of Contract.

2.1 **Insurance coverage:** The supplier shall arrange for coverage of insurance policy viz transit insurance till delivery at site, storage at project site, erection, testing and commissioning of the supplied equipment's shall be covered under the scope of contract and take full responsibility during transit and comply with necessary safety measures as called for relevant Act/Regulations. *The price is also inclusive of insurance coverage for manpower to be engaged during dismantling/retrofitting, testing and commissioning works at our site. Kindly ensure the insurance coverage before starting pre-commissioning activities.*

Approval File

2.2 **Taxes and Duties:** The above mentioned price is inclusive of GST. However, the GST shall be applicable as per GST rule at the time of execution subject to submission of GST registration, HSN code and payment details. Kindly submit GST Invoice with all information details as per GST rule.

3.0 **Special Condition of Contract/works:** Supply, Dismantling, Retrofitting/Erection, Testing and Commissioning works shall be done only **1(one) complete set of 245 KV SF6 CB in the 1st phase.** After successful and satisfactory testing and commissioning SF6 CB in the 1st phase, approval of drawing/manufacturing clearance shall be given for the balance complete 7(seven) set of SF6 CB.

3.1 **Mandatory Spare Parts:** The supplier has to provide the Mandatory Spare Parts required for 5 years of normal operation of the Circuit Breaker. The Price is inclusive as detailed in **Annexure-A (Price Schedule).**

3.2 **Availability of Spares:** Spares for offered 245KV SF6 CB shall have available for 25-30 years based on agreed term & conditions and Manufacturer's undertaking.

3.3 **Annual Maintenance Contract:** The supplier need to complete preventive and full service maintenance contracts of each equipment for a period of 5 (five) years from the date of date of expiry of Warrantee/Guarantee periods of the equipment's or the concern equipment (as applicable) as detailed under scope of works for AMC in **Annexure-C.**

3.4 **Field Service:** The supplier had to ensure the appropriate technical support service consisting of factory trained Customer Engineers dedicated to the start-up, maintenance and repair of equipment. In case of breakdown of equipment's or urgency, the supplier shall be ensured to provide Technical support service within 48 hrs from the time of intimation during contract periods.

4.0 **TIME OF COMPLETION & SPECIAL CONDITION OF CONTRACT:**

4.1 **Delivery Period (1st phase):** In the 1st phase, 1(one) complete set of equipment/material shall be delivered at site within 3 months from the date of approval of drawing/manufacturing clearance or mutually agreed terms and conditions. Effort should be given to minimize the delivery periods.

4.2 **Dismantling, Retrofitting, Testing and CommissioningPeriod (1st phase):** The works for the 1st set shall be completed within 4 months from the date of approval of drawing/manufacturing clearance or mutually agreed terms & conditions.

4.3 After successful and satisfactory dismantling, retrofitting, testing and commissioning of 1(one) set of SF6 CB in the 1st phase, Manufacturing clearance and subsequent order shall be issued for balance contract.

4.4 **Delivery Period (For 2nd phase):** After successful and satisfactory testing and commissioning SF6 CB in the 1st phase, the balance complete 7(seven) set of SF6 CB shall be delivered within 8-10 months from the date of approval of drawing/manufacturing clearance or mutually agreed terms and conditions. *Effort should be given to minimize the delivery periods.*

4.5 **Dismantling, Retrofitting, Testing and Commissioning Period (2nd phase):** The balance complete works for 7(seven) set of SF6 CB shall be completed within 14-15 months from the date of next approval of drawing/manufacturing clearance for balance equipment. However Dismantling, Retrofitting/Erection, Testing and Commissioning for balance works which shall be done in phase manner depending on clearance for availing shutdown of Units or mutually agreed terms and conditions. Prior intimation shall be given in due time and effort will be given from our end to avail the shutdown in a shortest possible time. *Effort should be given to minimize the periods.*

4.6 **Accommodation:** Free accommodation shall be provided (food on chargeable basis) at our Guest House to the commissioning engineer/Servicing team during commissioning & service periods.

5.0 **Contract Performance Guarantee/Security Deposit for Supply, Installation/Retrofitting, Testing and Commissioning:** The supplier shall have to submit Contract Performance Guarantee (CPG)/Bank Guarantee in liew of Security Deposit @10% of the Contract Price/ Contract Price for each complete set of equipment (as applicable) valid for a period of 90 days from the date of expiry of Guarantee/warranty periods as per our prescribed format as enclosed (Annexure-CPG/SD). The CPG/Security Deposit shall have to submit within a period of 30 days from the date issue of Contract Order.

5.1 **CPG/Security Deposit for AMC:** The supplier shall have to submit Contract Performance Guarantee (CPG)/ Bank Guarantee (BG) in liew of Security Deposit @10% of annual maintenance cost for each concern years valid for 90 days from date of expiry of maintenance contract periods or renewal/extension

of BG for succeeding years/year wise having validity for 90 days from date of expiry of of AMC periods. The AMC contract periods to be commenced from the date of expiry of warranty/guarantee period. The Security Deposit shall have to submit within a period of 30 days from the date issue of Maintenance Contract.

6.0 **Payment Terms (For Supply):**

(i) 100%(one hundred percent) of Ex Works Price along with all applicable taxes and duties shall be paid within 30 days after receipt of materials in full and good condition at site subject to submission of Contract Performance Guarantee (CPG)/Bank Guarantee (BG) in liew of Security Depash @10% of the Contract Price Contract/ Price for each complete set of equipment (as applicable) having validity for the period of 90 days from date of expiry of guarantee/warrantee period and production of the following documents to the consignee:-

(a) Contractor's detailed Invoice.
(b) Detailed packing list
(c) Test certificate and / or duly approved inspection certificate, or proof of waiver of inspection / tests.
(d) Despatch clearance
(e) Documentary evidence against payment of Taxes and Duties.
(f) Guarantee/ warranty certificate,
(g) Bank account details for e-payment.

(ii) Considering the execution of works in phase manner and depending on clearance for availing shutdown of Units, provision for Part payment for part delivery against each complete set of SF 6 CB shall be allowed if felt necessary by the purchaser.

6.1 **Payment Terms (For Dismantling, Erection/Retrofitting, Testing and Commissioning):**

i) 100%(one hundred percent) of the Contract sum for erection, testing and commissioning along with Price adjustment amount (if any) and 100% taxes and duties shall be paid on pro rata basis against successful completion of works/equipment.

ii) Considering the execution of works in phase manner and depending on clearance for availing shutdown of Units, provision for Part payment for part delivery against each complete set of SF 6 CB shall be allowed if felt necessary by the purchaser.

6.2 **Payment Terms (For Annual Maintenance Charge):** 100% payment along with taxes and duties shall be paid quarterly basis after successful completion of job every quarter on pro rata basis and based on agreed annual maintenance cost subject to submission of Contract Performance Guarantee (CPG)/ Bank Guarantee (BG) in liew of Security Deposit @10% of annual maintenance cost for each concern years or renewal/extension of same for succeeding years as stated above.

7.0 **Guarantee/Warranty:** The materials supplied shall be warranted / guaranteed as per manufacturer's norms or for a period of 18 months from the date of despatch or 12 months from the date of successful commission whichever is earlier against manufacturing defect/ defective workmanship. The supplier shall supply the materials to the satisfaction of the Engineer-in charge. Defective materials shall be replaced/ rectified by the supplier at free of cost immediately on intimation from this end.

8.0 **Liquidity Damage:** Time is the essence of the Contract. If the performance of the Contract is delayed due to the reason attributed to the Contractor, the Purchaser shall without prejudice to his right to recover damages for breach of the Contract:-

i) Reduce the Contract price by 1/2 %(half percent) per week or part thereof of delay in completion of time subjected to maximum of 10% of the contract price.
ii) Execute or authorize the execution of work departmentally or through any other agency without any notice to the Contractor at the risk and cost of the Contractor. The decision of the Purchaser shall be final and binding upon the Contractor. However, the above action shall be taken without cancelling the contract in respect of work not yet due to execution. Or
iii) Cancel the entire Contract on or portion thereof and if so desired, execute or authorize the execution of the work departmentally or through any other agency at the risk and cost of the Contractor. If the Contractor had defaulted in the performance of the Contract, the Purchaser may ignore the rates quoted by him for respective work even though the lowest for execution through other agency.
iv) Where action is taken under sub-clause (ii) or (iii) above to failure to complete the work, the Contractor shall be liable for any loss, which the Purchaser may sustain on that account. But the

Contactor shall not be entitled to any gain on such execution and the manner and method of such execution shall be in the entire discretion of the Purchaser. It is not be necessary for the Purchaser to serve a notice of such execution of the Contractor.

9.0 **Drawing & Documentation:** After placement of L.O.A and Detailed Order, five Copies of various Drawings, data and write up shall be submitted to the DGM (E/M), PEM, AGBP, NEEPCO Ltd, Bokuloni, Dist: Dibrugarh, Assam, PIN – 786191 for approval as well as reference as applicable. In all drawings, manuals etc, reference no. of LOA and Detailed Order shall be indicated. The supplier shall, if necessary, modify the drawings and resubmit the modified drawings for purchaser's approval within two weeks from the date of comments.

10.0 **Operational & Maintenance Manual:** The supplier shall have to provide 5 (five) sets of Operation and Maintenance Manuals in binding form, data sheets for each rating of specified Circuit Breaker along with equipment. The Manuals shall clearly include & indicate the installation methods, installation drawings, instructions a functional description of the equipment with block diagrams, safety precautions, illustrations, step by step operating procedures, and routine maintenance guidelines.

11.0 **Factory Testing:** Before shipment, the manufacturer fully and completely tests the Circuit Breaker as per standard to assure compliance with the specification.

12.0 **TESTS AT FACTORY AND TEST CERTIFICATES**

All Acceptance tests shall be carried out at manufacturer's works in presence of the AGBP, NEEPCO as per relevant IS & IEC. In addition to above, all routine tests are also to be carried out on the breakers as per relevant IS & IEC. The contractor shall give at least 15 (fifteen) days advance notice intimating the actual date of inspection and details of all tests that are to be carried out from the date when the tests will be carried out.

Routine tests report of each breaker is to be submitted along with inspection offer. Acceptance test report shall be furnished in Three (3) copies to the *DGM (E/M), PEM, AGBP, NEEPCO, Bokuloni, Dibrugarh –786191.*

13.0 **Dispatch clearance:** No materials shall be dispatched without inspection or his authorized representative or otherwise given dispatch clearance by the purchaser in writing to the Supplier.

14.0 **E-way Bill (Road Permit):** E-way bill (Road Permit) may please be generated by the supplier. Our GSTIN NO is '18AAACN9991J3ZP'. No any responsibility will be taken for issuance of E-way bill by the purchaser.

15.0 **Consignee:** The materials with accessories shall be delivered FOR AGBP site at the address i.e. DGM (E/M). MMW; AGBP, NEEPCO Ltd, Bokuloni, Dist: Dibrugarh, Assam, PIN – 786191.

16.0 **Paying Authority:** The DGM (Fin), AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam.

17.0 **Training of Personnel:** The supplier shall undertake to train in installation, operation and maintenance; engineering personnel selected and sent by the Purchaser and the principal consultant at the works of the Contractor or at installations using similar equipment shall be free of cost. The period and nature of training for the individual personnel shall be agreed upon mutually between the Contractor and the purchaser. The engineering personnel shall be given special training in the shops, where the equipment will be manufactured and/or in their collaborators works where possible, in any other plant where equipment manufactured by the Contractor or his collaborator is under installation or test, to enable those personnel become familiar with the equipment, being supplied by the Contractor. The supplier shall also make necessary arrangements for the trainees to get trained on simulators. The exact format of training course shall be mutually discussed and finally subject to approval by the Purchaser.

17.1 To and fro rail / road/ air fare of the trainees between the place of posting of the trainees and the place of training shall be borne by the purchaser. Local transport during the training period, lodging and boarding expenses and other incidental expenses shall be borne by the supplier during the entire period of training. The number of trainees in each group shall be decided in mutual consultation with the supplier in due course of time.

17.2 In addition to above the supplier shall also arrange training at site for the Purchaser's engineers to accrue technical knowledge, smooth operation and maintenance the new equipment. The supplier shall have no liability towards traveling and of boarding, lodging expenses of trainees during this training. The liability shall be restricted to providing training and training material.

18.0 **Jurisdiction of Court:**
The Contract shall be governed by the laws of India for the time being in force and shall be subjected to the jurisdiction of the High Court of judicature at Guwahati High Court, Assam.

19.0 **Signing of Contract / Agreement:**
After issue of the Letter of Intent and on receipt of its unconditional acceptance, the Owner shall issue detailed work order. On acceptance of the detailed work order and acceptance of Contract Performance Guarantee/SD submitted by the successful bidder, the Owner shall prepare the Contract Agreement on Non-Judicial Stamped Paper and the successful bidder will be informed for signing of the Contract Agreement on a notified date. Signing of the Contract Agreement will be done in the office of the Office of the Senior Manager (E/M), PEM, AGBP, NEEPCO LTD., Bokuloni, Dibrugarh, Assam.

20.0 All the terms and conditions, technical specifications which are not indicated here shall be governed as per Bid documents and agreed terms and conditions. Further, any other necessary item/protective devices/equipment and accessories whether specifically mentioned herein or not, but necessary for completeness and satisfactory performance of the 245KV SF6 CB and accessories shall be provided.

You are requested to kindly acknowledge the receipt of this Detailed Order and conveyance your acceptance.

Enclosed:
(i) Annexure- A (Price Schedule)
(ii) Annexure- B (Guaranteed Technical Particulars)
(iii) Annexure-C (Technical Specification).
(iv) Annexure-D (Model Forms of BG for SD/CPG).

Yours faithfully,

(Dinabandhu Baishya)
Dy. GM (E/M), PEM,
AGBP, NEEPCO, Bokuloni
Dist.: Dibrugarh, Assam.

NIO: Memo No. NEEPCO/AGBP/PEM/O&M-01/19-20/356-361 dtd. 12/09/2019

1. The CGM (E/M) & HOP, AGBP, NEEPCO Ltd, Bokuloni for kind information please. This is issued as per finance concurrence vide U.O. No: NEEPCO, AGBP//F&A/387 dtd. 27/08/2019 and subsequent approvals accorded vide U.O. No: NEEPCO/HOP/1031 dtd.27/08/2019.
2. The DGM (E/M), O/O the GM (E/M), O&AWC, AGBP, Bokuloni- for kind information please.
3. The DGM (F & A), AGBP, Bokuloni for kind information please. Photo copy of approval is enclosed.
4. The DGM (E/M), MMW, AGBP, Bokuloni for kind information please.
5. The DGM (E/M), Vigilance, AGBP, Bokuloni for kind information please. Photo copy of approval is enclosed.
6. Office records file O&M-01.

12/09/2019

(Dinabandhu Baishya)
Dy. GM (E/M), PEM,
AGBP, NEEPCO, Bokuloni
Dist.: Dibrugarh, Assam.

नॉर्थ इस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बकुलनि, जिला- डिब्रुगढ़,आसाम, पिन - ७८६ १९१

North Eastern Electric Power Corporation Ltd.
(A Govt.of India Enterprise)
www.neepco.gov.in
ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 191
Ph. 0374-2825216, EPABX 2825207/2825423/2825208 FAX : 0374-2825349/2825211
E-mail : agbppaee@sancharnet.in, hopagbp@sancharnet.in

ISO - 9001-2000
ISO-14001-2004
OHSAS - 18001-1999

No.NEEPCO/AGBP/ST&Aux/W-33(A)-09/2020-21/ 240 Dated 03.08.2020

To,

M/S Cooldeck Industries Private Limited ,
121 Andheri Industrial Premises ,
Off Veera Desai Road ,Andheri (West)
Mumbai , PIN 400053
Phone : +91-22-61333888 ,Mob : +91-84199 14883
Fax : +91-22-61333820
E-mail : felicoelho@cooldeckin.com, romulus@cooldeckin.com

SUB: Work Order for Supply and replacement of fill packs of cooling tower and taking out of old removed fill packs out of the plant for further disposal / recycling from suppliers end at their own arrangement.

REF: 1. Our NIB no. : NEEPCO/AGBP/ST & Aux/2019-20/13 Dated 03.03.2020
E-Tender Id :2020_NEEPC_44693_1

Dear Sir (S),

With reference to the aforesaid NIT and subsequent corrigendum published hereafter, the Corporation is pleased to place the order for Supply and replacement of fill packs of cooling tower of Assam Gas Based Power Plant , NEEPCO Ltd. , Bokuloni , Dibrugarh (Assam) and taking out of old removed fill packs out of the plant for further disposal / recycling from suppliers end at their own arrangement , as per scope , price, other terms and conditions stated below:

TERMS AND CONDITIONS:

1. Contract Price: Overall amount for the complete work as defined in the Scope of work shall be *Rs.1,02,88,599.00 (Rupees one crore two lakhs eighty eight thousand five hundred ninety nine) only* inclusive of all . The price as mentioned, will remain FIRM till the currency of the contract and will not be subjected to escalation irrespective to any increases whatsoever in material or labour cost etc.

Basic Price break up:

(A) Schedule of Price for materials :

Sl. No.	Description of Items	Quantity	Rate (Rs.)	Amount (Rs.)
1	Supply of Fill Sheets	83,280 Nos.	84.10	70,03,848.00
2	Supply of PVC Solvent Cement , 20-40 SE	5,200 Kg	145.00	7,54,000.00

(B) Schedule of Price for work :

Sl. No.	Description of Items	Quantity	Rate (Rs.)	Amount (Rs.)
1	Removal of old Fill Packs and Replacement with new one	For 08 Cells	1,20,163.00	9,61,304.00

Total basic amount: (A + B) = : Rs. 87,19,152.00
(Rupees eighty seven lac nineteen thousand one hundred fifty two) only .

2. Taxes & Duties: GST as applicable shall be extra on above basic price . The GSTIN for our plant i.e. AGBP is 18AAACN9991J3ZP .

3. Scope of work and technical specification: The detail specification and scope of work is defined in attached Annexure with all the relevant information as required to be executed by the party.

4. Contract period: The entire scope of supply / work shall have to be completed within 6(Six) months from the date of issuance of this order, i.e. on or before 24.01.2021.

5. Payment Terms:

   a) **Payment against supplied material:** 80% of the contractual value against supply of material including GST shall be released to the party against supply of material in full and good condition as mentioned in in Schedule of Price for material, Clause 1(A), subject to submission of security cum performance bank guarantee equivalent to 10% of total basic contract value. Otherwise, 10% of total basic contract value shall be retained by NEEPCO as security cum performance guarantee from the invoiced amount of the contractor.
   b) **Payment against work:** 100% payment against installation/erection work as mentioned in Schedule of Price for Work, clause 1 (B) and balance 20% amount as retained against supplied material shall be released to the contractor along with all taxes and duties after successful completion of erection and commissioning as per contract subject to fulfilment of condition as mentioned under clause No.6 under the head of Security Cum Performance Guarantee.

6. Security Cum Performance Guarantee:
   - Within 30(thirty) days from the date of issue of purchase / work order, the successful bidder herein called the contractor shall furnish a security cum performance guarantee for an amount equivalent to 10 (ten) percent of the total contract basic value at par enclosed format (Annexure-II) from any nationalized bank in favor of NEEPCO ltd valid for entire period of contract i.e till expiry of guarantee/warrantee period and additional 90 (ninety) days covering claim period.
   - The security cum Performance Guarantee furnished by the contractor shall be irrevocable and unconditional and NEEPCO shall have the right to invoke it notwithstanding any dispute or difference between NEEPCO and contractor pending before the Court, Tribunal, Arbitrator or any other authority as per provision of the contract.
   - On expiry of the contract, the bank guarantee will be released to the contractor without any interest on presentation of an absolute no demand certificate issued from work executing authority of this corporation. However, the corporation shall be entitle to retain, set off, deduct or adjust any claim against the contractor from the PBG as submitted or payable by the corporation.
   - It is expressed understood and agreed that the amount of contract performance guarantee shall not be construed as limiting factor/amount of various liabilities under this contract.

7. Time of Completion: The entire scope of supply / work shall have to be completed within 6 (Six) months from the date of issuance of this order, i.e. on or before 03.01.2021. Only 1(one) CT cell shall be offered for removal and replacement of fill packs at a time. On successful completion of fill replacement, the same shall be taken into service and another one shall be offered for execution of work. The time gap between line up and withdrawal shall be considered as normal and shall not be considered as idle period.

8. Transit Insurance: Transit Insurance is in the scope of Contractor.

9. Liquidated damage: The Contractor shall ensure timely completion of work under this contract to the satisfaction of the Engineer-in-Charge of NEEPCO. The Contractor shall ensure engagement of adequate skill manpower and shall engage his manpower round the clock, if required for timely completion of entire work . If the contractor fails to complete the work satisfactorily in time i.e. as agreed upon, an amount @ ½% (half percent) of basic contract value for each calendar week or part of delay from the schedule date of completion or extension thereof subject to a maximum of 17.5 % of the total basic contract value shall be deducted from the Contractor's bill. However, LD clause shall not be imposed under Force Majeure Condition/conditions.

10. FORCE MEASURE: The terms and conditions mutually agree upon with respect to this contract shall be subject to force majeure condition. Neither the contractor nor the corporation shall be considered default in the performing of its obligation herein under if such performance is prevented or delayed without limitation because of wars, insurrection, civil disobediences, strikes, riots, epidemics, earthquakes, storms, floods, explosions or fire not caused by contractor's negligence, lightening, acts of God or any law and order proclamation, regulation or ordinance of the Government which is of such a nature that is beyond control.

11. Reporting at site: The execution team shall have to report at site within 30 days from the date of issuance of site clearance in respect of readiness of cooling tower cells for replacement of fill packs.

12. Death, Insolvency and Breach of contract: The contractor shall have to insure his workman as deployed for this contract against all type of accident i.e. fatal, major, minor and in such cases NEEPCO shall not be hold responsible anyhow. In case of infringement of any terms and conditions, major or minor, of this covenant /agreement/ condition by the contractor, the corporation shall have full power to rescind, cancel or terminate the contract after observing all legal formalities. The decision of Corporation in this regard shall be final and binding.

13. Guarantee / Warranty: Standard clauses of Guarantee / Warranty shall be applicable for the supply of materials and work performed by the Contractor . The supplied material shall have to guaranteed / warranted for a period of 12 months from the date of operation or 18 months from the date of supply, whichever is earlier. However Guarantee / Warranty against workmanship shall be counted for a period of 12 months from the date of operation only .

14. General Terms and Conditions :

a. The Contractor is deemed to have full knowledge about the nature and character of the plant & equipment as the case may be for the work to be executed at the site condition, the relevant matters, details and extent of work. The Contractor shall ensure proper safety to the men, materials and plant & equipment of the Corporation while working at Site. The Contractor shall provide suitable safety equipment of prescribed standard to his workmen and follow safety work procedure. No personal protective equipment shall be issued by the corporation.

b. The Contractor is required to comply with all relevant acts, rules and regulations applicable in respect of safety of the personnel engaged for the works.

c. NEEPCO will not accept any liability for accidents to Contractor's workmen and compensation required to be paid to the Contractor's workmen in the event of any accident. NEEPCO bears no responsibility whatsoever towards the Contractor's workmen for any loss / damage caused by any accident during the works. For any such eventuality the responsibility lies solely on the Contractor.

d. The Contractor at his own interest and cost shall arrange for adequate insurance cover for his workers to protect them against all claims applicable under Workmen's Compensation Act, 1923.

e. The Contractor's workmen will not be entitled to free medical treatment from NEEPCO. The Contractor shall ensure the receipt of medical benefit to his workmen under Employees State Insurance Act'1948.

f. The Contractor shall ensure full compliance of various Indian Laws and Statutory Regulations, to the extent applicable, as stated below, but not limited to, in force from time to time:

- Workman's Compensation Act, 1923.
- Payment of Wages Act, 1936.
- Minimum wages Act, 1948.
- Contract Labour (Regulation & Abolition) Act, 1970.
- Provident Funds and Miscellaneous Provisions Act, 1952.
- Income Tax Act 1961.
- Any other Act or Statue having bearing over engagement of workers directly or indirectly for execution of the Contract.

g. The Income Tax and other taxes as may be payable under the provision of relevant Acts will be deducted at source.

h. The Contractor's personnel shall maintain strict discipline and harmony at the work site. The Engineer-in-Charge of NEEPCO shall be at discretion to object to the presence of any worker / representative of the Contractor at site, if in his opinion, such worker / representative has misconducted himself or found incompetent or negligent or otherwise undesirable and the Contractor shall remove such person(s) immediately.

i. The persons engaged by the Contractor must not be found under the influence of alcohol and drugs within the Plant area during the duty hours and also maintain decorum in the Plant area at all the time. The Contractor shall not engage minor labour below 18(eighteen) year of age under any circumstances.

j. Temporary Entry Pass for entry into the work site will be issued by NEEPCO in favor of the Contractor and each of his workers till expiry of the contract period. No personnel shall be allowed to enter inside the NEEPCO's Plant/Colony area without valid Entry Pass. The Contractor shall apply for the temporary Entry pass for his employees giving full details of them.

k. The Contractor's workers shall act and carry out all works as per instruction / direction of the Engineer-in-charge of NEEPCO for the said works or his authorized representative

l. Settlement of dispute: A process of mutual settlements shall decide all the differences or disputes arising out of the Contract between the parties. However, if the process of mutual settlements fails, then the dispute under this contract will be settled through arbitration as per Indian Arbitration and Conciliation Act, 1996. All disputes shall be under the jurisdiction of Dibrugarh Court only.

m. Termination of contract: NEEPCO reserves the right to terminate this contract in the event of Contractor's continued default in providing requisite services after proper and due notice having being served upon. NEEPCO also reserves the right to terminate this contract if any condition under FORCE MAJEURE warrants stoppage of the work. In case of termination on account of this reason, before completion of the Contract period the Contractor shall be paid all eligible charges as per this contract on pro rata basis for the work done up to the date of termination. On expiry of the Contract period, this contract will automatically stand terminated.

15. Agreement: The successful bidder herein called the contractor shall have to enter in to an agreement with the NEEPCO on stamp paper of appropriate value of not less than Rs. 100.00 (hundred) in the prescribed form within one month from the date of receipt of this order or before commencement of work execution by the contractor. Issued work order, order acceptance letter, signed copies of bid document, corrigendum published time to time and any other correspondence in this connection shall form the complete contract agreement which shall be binding of this contract.

16. Breach of Contract: In case of infringement of any terms and conditions ,major or minor, of this covenant / agreement by the contractor , the Corporation shall have full power to rescind , cancel or terminate the contract after observing all legal formalities . The decision of Corporation in this regard shall be final and binding.

17. SUSPENSION OF WORK:
    (i) The Corporation reserves the right to suspend and restore execution of the whole or any part of the awarded Contract. Orders for suspension or restoring the works will be issued by the Engineer-in-Charge to the Contractor in writing.
    (ii) Any necessary and demonstrable costs incurred by the Contractor as a result of such suspension of the works will be paid by the Corporation, provided such costs are substantiated to the satisfaction of the Engineer-in-Charge. The Corporation shall not be responsible for any liabilities if suspension is due to some default on the part of the Contractor.

18. Disposal of old fill packs: The contractor shall have to do the arrangement to take out the removed old PVC fill packs out of the plant for further disposal / recycling at par applicable norms at their own cost and arrangement. However, NEEPCO shall provide designated area to store old fill packs, water line and electrical connection free of cost for crushing the fill packs into pieces.

19. Engineer-in-Charge: You are requested to contact Mr. AnupamBoruah ,D.G.M. (E/M), ST&Aux. for execution of tendered work.
20. Consignee: The D.G.M. (E/M), Material Management Wing, Assam Gas Based Plant, NEEPCO Ltd., Bokulani (Near Duliajan town), P.O. : BokuloniChariali - 786 191, Dist. : Dibrugarh (Assam) , Phone no. : (0374) 282 5411 .

21. Paying authority: The D.G.M. (Fin), F&A , Assam Gas Based Power Plant, NEEPCO Ltd., Bokuloni , P.O. : BokuloniChariali - 786 191, Dist. : Dibrugarh (Assam) .

22. Order Acceptance: Please confirm acceptance of this PO by fax or E-mail at the following address

Enclosure:Annexure- I & Annexure-II.

Thanking you.

03.08.2020

(AnupamS Boruah),
D.G.M. (E/M),
Steam Turbine and Aux Complex:
Assam Gas Based Power Plant,
NEEPCO Ltd.; Bokuloni,
Dibrugarh, Assam- 786191
Phone : - 0374 2825505
Fax : - 0374 2825349/ 5217.
E-mail:stnauxagbpneepco@gmail.com

TECHNICAL CONDITION AND SPECIFICATION.

Objective: The overall objective is to replace old clog PVC fill packs of induced draught counter flow cooling tower of Assam Gas based Power Plant, NEEPCO Bokulani for improvement of performance of cooling tower.

Broad Scope of Work: The broad scope of work is to 1) supply PVC fill sheets with required Adhesive for making fill packs at site and replacement of old clogged fill packs of cooling tower of AGBP NEEPCO, Bokulani, Assam. 2) Taking out of old removed fill packs out of the plant for further disposal/recycling as per norms. The detail of scope under this contract shall be elaborated and the contractor shall have to adhere the same without any deviation.

Design detail of cooling tower:

Make of the cooling Tower: Paharpur Cooling Tower.

Type	: Induced draught counter flow.
CT Model	: Paharpur : 85442-3.0-8
Capacity	: 19500 M³/hr.
Number of cells	: 08 numbers.
Cell dimension	:17000 mm x 13000 mm
Height	: From GL to bottom of fill packs : 4500 mm.
Floor level of cooling tower	: 10.00 Mtr.

Fill sheet specification

Type of PVC fill sheet	: MC-67 (Paharpur), non clog type.
Fill sheet dimension	: Length of the fill sheet: 1205 mm: height of the fill sheet: 920 mm
Fill sheet thickness	: 0.3 mm minimum.
Material property	: Material must meet all CTI STD-136 material properties after production and the manufacturer must submit test results to the owner prior to shipment of actual material
Fill flute depth of each sheet	: 17 mm (for detail refer photograph and drawing followed by).
Fill pack size	: Pack of 12 sheets in each pack.
Numbers of sheet per cell (existing)	: 10410 nos.
Total numbers of fill sheet in all 8 (eight) cells as per design	: 83,280 numbers.

Adhesive specification

Adhesive : PVC Solvent Cement, 20-40 SE.

Detail Scope of Work:

a) The contractor shall have to supply PVC fill sheets as per specification along with required adhesive (required for replacement of complete fill packs in all 8 (eight) cells of the cooling tower).
b) At a time, only one cell shall be offered to the contractor for replacement of PVC fill packs. After successful completion of fill packs replacement, the cell shall be taken into service and another cell shall be offered to

the contractor. Upon completion of fill replacement, the contractor shall offer the cell for inspection to the engineer/engineer in charge of NEEPCO and shall have to draw joint inspection certificate.

c) The contractor shall have to make PVC fill packs at site only. Accordingly the contractor shall have to bring fill pack making machine to the site.

d) Removal of old fill packs from the cell of cooling tower shall be under the scope of this contract.

e) The contractor shall have to remove drift eliminator (Asbestos made) from the respective cell for removal of old fill packs if required and shall have to replace as is after completion of installation of new PVC fill packs.

f) The contractor shall have to dismantle water distribution system of respective cell which includes nozzle diffusers, branch arm assembly, distribution header prior to removal of old fill packs and install back the same after completion of installation of new PVC fill packs. In case of dismantling requirement of water distribution system, the contractor shall take special care not to damage any part of it. In the event of any damage/broken of nozzle, diffusers etc. attributed as part of negligence of the contractor/his manpower, the contractor shall have to replace the same at their own cost.

g) Prior to execution of removal of old fill packs and replacement with new fill packs, the contractor shall completely cover the respective cooling water basin of the cell with strengthen material to ensure not to fall broken pvc fill pieces/ scales at sump water.

h) The contractor shall keep it in mind that there may not be possible to completely dry out cells of cooling tower by isolation as the plant is an old one. However, condition shall be still favorable for the work even after passing of water in few cells.

i) After execution of the work, the contractor shall have to clean the surrounding area of cooling tower from removed fills and debris.

j) The contractor shall take utmost care to follow safety measures as required as per norms.

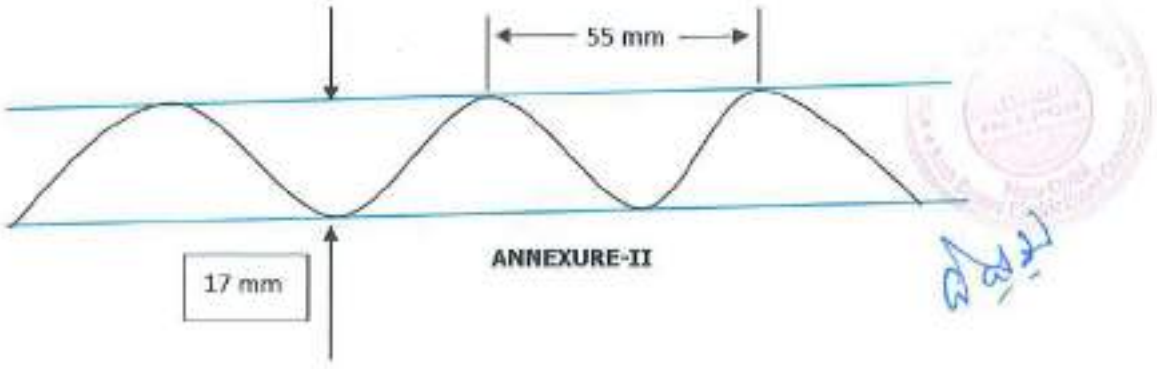
k) The contractor shall have to do the arrangement to take out the removed old PVC fill packs out of the plant and shall make an arrangement for further disposal at per applicable norms.

Scope of NEEPCO:

1) NEEPCO shall make adequate arrangement for illumination at work site and extend electric power to the place where PVC fill packs shall be made.
2) NEEPCO shall provide open space near to cooling tower for stacking of prepared new fill packs.
3) NEEPCO shall arrange temporary plant area gate pass to the personals engaged by the contractor under this contract.
4) NEEPCO shall arrange designated area for storage of old fill packs with water line and electrical power supply at free of cost to crush old fill packs into pieces.
5) NEEPCO shall provide vacant quarter, if available, for the execution team engaged by the contractor for the replacement work on chargeable basis near to plant.

Existing PVC Fill sheet:

Flute details.



ANNEXURE-II

Proforma for Bank Guarantee for Contract Performance
(To be stamped in accordance with Stamp Act)

Ref: ..... Bank Guarantee No...
Date.....

To

Dear Sir,

In consideration of the North Eastern Electric Power Corporation Ltd., (hereinafter referred to as the "Purchaser" which expression shall unless repugnant to the context or meaning thereof include its successors, administrators or and assigns) having awarded toM/s..... with its Registered/Head Office at ..... (Hereinafter referred to as the "Contractor" which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, or and assigns) a contract by issue of purchaser's Letter of Intent No.....Dtd..... and the same having been unequivocally accepted by the Contractor resulting a "Contract" valued at Rs..... (Rupees.....) only for .....(Scope of the Contract) and the Contractor having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire Contract equivalent to 10 (ten) percent of the said value of the Contract to the Purchaser.

We ..... (name & address) at.....(hereinafter referred to as the "Bank" which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors or and assigns) do hereby guarantee and undertake to pay the purchaser, on demand any and all money payable by the contractor to the extent of as aforesaid at any time up to.....(days/months/year) without any demur, reservation, contest, recourse or protest and/or without any reference to the Contractor. Any such demand made by the purchaser on the Bank shall be conclusive and binding notwithstanding any difference between the Purchaser and Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other Authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the purchaser and further agree that the guarantee herein contained shall continue to be enforceable till the purchaser discharges this guarantee.

The purchaser shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance of the Contract by the Contractor. The purchaser shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the contract between the purchaser and the Contractor or any other course or remedy or security available to the purchaser. The Bank shall not be released of its obligations under these presents by any exercise by the purchaser of its liberty with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the purchaser or any other indulgence shown by the purchaser or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank.

The Bank also agree that the Purchaser at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the purchaser may have in relation to the Contractor's liabilities.

Not withstanding anything contained herein above our liability under this guarantee is restricted to Rs..... (Rupees.....) only and it will remain in force up to and including..... And shall be extended from time to time for such periods as may be advised by the purchaser who is the beneficiary under this guarantee and in the event if the contractor fails to comply such extension within the validity period, this shall be treated as a claim by the purchaser on the Bank.
Dated this.....day of .....20.....at.....

Witness

.....
(Signature)

.....
(Name)

.....
(Official address)
.....

(Signature).....
(Bank's Rubber Stamp)
(Name)
Designation with
Bank Stamp.....
Authority as per Power
Of Attorney No.....

Dated.....

Note:

1. This sum shall be ten percent (10%) of the "Contract Price"
2. The date of validity of this Bank Guarantee will be ninety (90) days after the end of the warranty period as specified in the Contract.
3. In case of Bank Guarantees issued by a Foreign Bank, the same shall be confirmed by any of the Nationalized Bank in India.

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लिमिटेड

(मिनी रत्ना, श्रेणी १, भारत सरकार का उद्यम)

North Eastern Electric Power Corporation Limited,

(Mini Ratna Category - I, Govt. of India Enterprise)

असम गैस बेस्ड पावर प्लांट, का॰ संयंत्र प्रमुख

Assam Gas Based Power Plant, O/o the Head of Project

डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

ISO 9001 - 2015
ISO 14001 - 2015
OHSAS 45001 - 2018

No. NEEPCO/AGBP/HOP/2020-21/W-11(B)/204 Dated 29/08/2020

To,

M/S BHEL-GE Gas Turbine Services Pvt. Ltd.,
A1, A2 & A3, Quadrant 1, 7th Floor,
Cyber Towers, Madhapur,
Hyderabad, Telangana,
Pin – 500 081

Sub: NEEPCO/AGBP – Purchase order for Upgradation of HMIs of Mark Vle Control system of BHEL make GTG # 5 & 6.

Ref: 1. Your offer No. Q19-0030 Dated 11/03/2020.
2. Our letter No. NEEPCO/AGBP/C&I/T-39/2020-21/22 Dated 01/05/2020
3. Your letter No. QEE19/0030-Clr.01 Dated 12/06/2020
4. Your E-mail Dated 18/05/2020
5. Our E-mail Dated 29/06/2020
6. Your E-mail Dated 29/06/2020
7. Our E-mail Dated 14/08/2020
9. Your E-mail Dated 14/08/2020

Dear Sirs,

With the above references, the Corporation is pleased to place this P.O. for supply of materials for Upgradation of HMIs Mark Vle Control system of BHEL make GTG # 5 & 6 of AGBP as per following terms & conditions.

Terms & Conditions:

1. **Scope of Contract:**
The scope shall include supply of materials for Upgradation of HMIs Mark Vle Control system of BHEL make GTG # 5 & 6 as detailed at Schedule of Items & Prices (Annexure-I) enclosed along with this order.
2. **Price Basis:**
The prices for supply of the materials as detailed at Schedule of Items & Prices (Annexure-I) are US **$ 1,18,000.00** on FCA-2010 on High Sea Sale basis from USA or any other GE Warehouse located in Europe, which is inclusive of freight charges up to nearest port of export. The prices shall remain FIRM till completion of delivery. Payment shall be made in Indian rupees based on the exchange rate prevailing on the date of high sea sale. However, cutoff date for exchange rate conversion shall not be later than the last date of scheduled dispatch as per purchase order.
3. **Payment terms:**
For imported items mentioned at Annexure– I: 100% (one hundred) payment through NEFT/RTGS after receipt of materials at site in full and good condition and presentation of the following documents:
(i) Original invoice.
(ii) Airway bill copy / Bill of lading.
(iii) High Sea Sale Agreement.
(iv) Packing list.
(v) Insurance cover note.

(vi) Certificate of Origin from GE.
(vii) Guarantee / warrantee certificate
As the prices are on F.O.B. any USA / European airport basis, airfreight upto Indian Airport shall be to NEEPCO's account. Customs Clearance and inland transportation shall be arranged by NEEPCO for delivery at NEEPCO AGBP site.

4. **Taxes & Duties:**
Prices mentioned at Schedule of Items and Prices (Annexure-I) do not include any tax, duty or levy. All taxes, duties & levies if applicable, shall be reimbursed by NEEPCO at actual on production of documentary evidence to the effect that the same have actually been paid by you. Customs clearances for the item will be arranged by NEEPCO.

5. **Transit Insurance:**
The insurance during transit shall be taken by M/S BGGTS in the name of NEEPCO from any Indian Insurance Co. The insurance shall cover the shipment against transit risk from the port of origin to NEEPCO's warehouse at AGBP plant site. However, the duration of insurance coverage shall expire in any case on completion of 60 (sixty) days after discharge of the goods at Indian port. NEEPCO shall settle claim, if any, directly with the insurance company. The original insurance policy shall be submitted to NEEPCO within 2 (two) weeks from date for the purpose of setting claim, if any, with the under-writer. The insurance charges shall be reimbursed to BGGTs at actual against documentary evidence.

6. **Delivery period:**
The material shall be delivered within 26 weeks after receipt of technically and commercially cleared P.O. and shall be counted from the date of receipt of order at BHEL-GE Gas Turbine Services.

7. **Mode of Delivery:**
Delivery of the imported materials shall be on "High Sea sales" basis. Initially M/S GE, USA shall consign the imported material in the name of M/S BGGTS. After loading up the material in Ship / Air, title transfer will take from BGGTS to NEEPCO by endorsing the documents like Bill of Lading / AWB along with invoices etc.
A separate agreement for "High Sea sales" shall be executed between BGGTS and NEEPCO. Also separate communication shall be addressed to customs authorities about such transaction and with this formality the Title transfer will be affected to NEEPCO in High Seas. NEEPCO will arrange inland transportation from Kolkata Airport to NEEPCO Plant after Custom clearance.

8. **Packing & Marking:**
Manufacturer's standard packing shall be applied. Following particulars shall be marked on each packet:
   (a) Purchase Order number.
   (b) Crate number with dimension and weight.
   (c) Country of origin.
   (d) Consignee mark.
   (e) Port of discharge.

9. **Warranty:**
All the materials supplied shall be guaranteed against any manufacturing defect or faulty workmanship for a period of 12 (twelve) months from the date of installation or 18 (eighteen) months from the date of supply whichever expires earlier.

10. **Shipping Documents:**
Copies of shipping documents shall be forwarded to the following offices in advance:
   (a) The ordering authority.
   (b) The Coordinator, NEEPCO Ltd., DS-I, Maniktola Civic Centre, 1/16,VIP Road, CIT Scheme No. VII M, P.O. Kankurgachi, Kolkata – 700 054.
   Phone: 091 033-2355434[1]

11. **Port of Embarkation:**
Any USA / European Port / Airport.

12. **Port of Entry:**
As per the choice of BGGTS.

13. **Ultimate Consignee:**
The DGM (E/M)
Material Management Wing,
Assam Gas Based Power Plant,
No.3 Bokuloni Village,

Dist. Dibrugarh, PIN – 786191, Assam

14. **Paying Authority:**
The DGM (Fin.),
Assam Gas Based Power Plant,
No.3 Bokuloni Village,
Dist. Dibrugarh, PIN – 786191, Assam.

15. **Address for correspondence:**
All correspondences in respect of this order shall be made with –
The Chief General Manager & Head of Project,
Assam Gas Based Power Plant, NEEPCO Ltd.,
No.3 Bokuloni Village,
Dist. Dibrugarh, Assam, PIN – 786191
(Fax No. 0374-2825217)

The Airway Bill shall indicate the notify party as our port clearance office, where the consignment is to be cleared. This will enable Airline Company to send cargo arrival notice to our port office. Address of our Kolkata Port office is given above.

The supplier should indicate in their invoice, the GATT Custom Classification of the items under import, which will hold on correct assessment of duty. Packing list should clearly indicate the correct physical dimensions of the package, its weight and contents.

Kindly acknowledge receipt of this purchase order and convey your acceptance please.

Thanking you,

Encl: Schedule of Items and Prices (Annexure – I)

Yours faithfully,
29/8/2020
DGM (E/M)
For & on behalf of
Chief General Manager & Head of Project

NIO

Memo No. NEEPCO/AGBP/HOP/2020-21/W-11(BY)205-12 Dated 29/08/2020

Copy to:

1. The Director (Tech.), NEEPCO Ltd., Shillong, for kind perusal. – This has reference to his approval Dated 27/08/2020 conveyed vide E-mail Dated 27/08/2020 of ED (O&M).
2. The Executive Director (O&M), NEEPCO Ltd., Shillong, for kind perusal.
3. The GM (F) NEEPCO Ltd., Shillong, for kind perusal.
4. The DGM (F), AGBP, NEEPCO Ltd., Bokuloni, for kind perusal and needful please. Enclosed a copy of the approval of D (T) Dated 27/08/2020 and Finance concurrence.
5. The DGM (E/M), C&ID, AGBP, NEEPCO Ltd., Bokuloni, for information please.
6. The DGM (E/M), MMW, AGBP, NEEPCO Ltd., Bokuloni, for information and necessary action please.
7. The DGM (Vigilance), AGBP, NEEPCO Ltd., Bokuloni, for information please.
8. The Coordinator, NEEPCO Ltd., DS-I, Maniktola, 1/16, VIP Road, CIT Scheme No. VII M, P.O. Kankurgachi, Kolkata – 700 054, for information and necessary action please.

29/8/2020
DGM (E/M)
For & on behalf of
Chief General Manager & Head of Project

P.O. No. NEEPCO/AGBP/HOP/2020-21/W-11(B)/204 Dated 29/08/2020

ANNEXURE-I

SCHEDULE OF ITEMS & PRICES

SL. NO.	DESCRIPTION OF ITEMS	QNTY	PRICE in US $
1	Commercial grade HMI Server for HMI to HMI upgrade: (or Current BHGE Standard) which includes the following items as standard • Windows 10 IoT • Minitower – H: 17.0" (431.8mm) X W: 6.65" (168.91mm) X D: 17.5" (444.7mm) • Xeon Processor E5-1620 v3 Quad Core 10M Cache, 3.50 GHz • QTY two 256GB SATA Solid State Drives – first for operating system, second for data • Dual Monitor Video Card (Dual DVI or Dual VGA) • 32 GB RAM memory • External speakers • 10 external USB ports • 1 RS-232 serial port • PS/2 Ports • 4 RJ 45 Ethernet ports • DVD +– RW • 1 – PCIe Slot available for optional card • 1 – PCI Slot • Keyboard (USB) • Mouse(USB) • Auto sensing 700W Power Supply (110-220 VAC, 50-60 Hz- 90% Efficient Power Supply • Temp rating: Operating :5° to 35°C (40° to 95°F) /Non-Operating: -40° to 60°C(-40° to 140° F) • Humidity: Operating: 8% to 85% relative humidity, non-condensing / Non-Operating: 8% to 90% relative humidity, non-condensing ➢ MARK VIe – Dual UDH, Dual PDH Ethernet ➢ 50' section of CAT6 Ethernet cables with RJ45 connectors (qnty 4) ➢ Windows 10 with CIMPLICITY ADVANCED VIEWER 9.2 and WorkstationST 7.0 or higher ➢ Microsoft Excel and Word ➢ SOPHOS Antivirus Software ➢ Acronis Backup and Restore Software ➢ Documentation ➢ English Language ➢	2 Nos.	118000.00
2	24 inch LED Monitor per HMI	2 Nos.	
3	• ENGINEERING/ OPERATOR WORKSTATION with controlST software per HMI • License Dongle per HMI	2 Nos.	

4	Engineering and software update for HMI	2 Nos.	
5	Network Switches	4 Nos.	
6	Serial Modbus Port for Communication to DCS	1 No.	
7	Multi Unit Configuration for Unit 5 & 6	1 No.	

(US Dollar One Hundred Eighteen Thousand) only.

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लिमिटेड
(मिनी रत्ना, श्रेणी १, भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Limited,
(Mini Ratna Category - I, Govt. of India Enterprise)
असम गैस बेस्ड पावर प्लांट, का॰ संयंत्र प्रमुख
Assam Gas Based Power Plant, O/o the Head of Project
डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

No. NEEPCO/AGBP/HOP/2020-21/W-11(B)/213 Dated 29/08/2020

To,

M/S BHEL-GE Gas Turbine Services Pvt. Ltd.,
A1, A2 & A3, Quadrant 1, 7th Floor,
Cyber Towers, Madhapur,
Hyderabad, Telangana,
Pin – 500 081

Sub: NEEPCO/AGBP –Work Order for Upgradation of HMIs Mark Vei Control system to Windows-10 of BHEL make GTG # 5 & 6.

Ref: 1. Your offer No. Q19-0030 Dated 11/03/2020.
2. Our letter No. NEEPCO/AGBP/C&I/T-39/2020-21/22 Dated 01/06/2020
3. Your letter No. QEE19/0030-Clr.01 Dated 12/06/2020
4. Your E-mail Dated 18/06/2020
6. Our E-mail Dated 29/06/2020
7. Your E-mail Dated 29/06/2020
8. Our E-mail Dated 14/08/2020
9. Your E-mail Dated 14/08/2020

Dear Sirs,

With the above references, the Corporation is pleased to place this Work Order Supervisory services for Upgradation of HMIs Mark Vei Control system to Windows-10 of BHEL make GTG # 5 & 6 of AGBP as per following terms & conditions.

Terms & Conditions:

1. **Scope of Contract:**
The scope shall include site services for installation and commissioning of Upgradation of HMIs of Mark Vie Control system of BHEL make GTG # 5 & 6. NEEPCO will provide accommodation at site and vehicle for airport transfer to BGGTs Technical Supervisor.
2. **Price Basis:**
The prices for site services for installation and commissioning of Upgradation of HMIs Mark Vie Control system of BHEL make GTG # 5 & 6 is ₹ 8,00,000.00 (Rupees Eight Lakh) only excluding of GST.
3. **Payment terms:**
Service charges: 100% payment along with taxes and duties shall be released within 7 days of installation and commissioning of the system through the bank against presentation of the following documents.
   (i) BGGTS detailed invoice in triplicate.
   (ii) Work completion certificate duly signed by NEEPCO
   (iii) Bank details for payment

   Bank charges shall be to respective account i.e. BGGTS bank charges to BGGTS account and NEEPCO bank charges to NEEPCO account.
4. **Taxes & Duties:**
All taxes shall be paid extra as applicable. The present rate of GST is @ 18%.

5. **Completion period**
The works shall be completed within 12 days from the date of starting of works.

6. **Paying Authority:**

The DGM (Fin.),
Assam Gas Based Power Plant,
No.3 Bokuloni Village,
Dist. Dibrugarh, PIN – 786191, Assam.

7. **Address for correspondence:**
All correspondences in respect of this order shall be made with –
The Chief General Manager & Head of Project,
Assam Gas Based Power Plant, NEEPCO Ltd.,
No 3 Bokuloni Village,
Dist. Dibrugarh, Assam, PIN – 786191
(Fax No. 0374-2825217)

8. **Arbitration, if any:**
Arbitration, if any, shall be settled in any Indian Court.

Kindly acknowledge receipt of this work order and convey your acceptance please.
Thanking you.

Yours faithfully,

29/8/2020

DGM (E/M)
For & on behalf of
Chief General Manager & Head of Project

NIO

Dated 29/08/2020

Memo No. NEEPCO/AGBP/HOP/2020-21/W-11(B)/214-218

Copy to

1. The Director (Tech.), NEEPCO Ltd., Shillong, for kind perusal. – This has reference to his approval Dated 27/08/2020 conveyed vide E-mail of ED (O&M) Dated 27/08/2020.
2. The Executive Director (O&M), NEEPCO Ltd., Shillong, for kind perusal.
3. The GM (F) NEEPCO Ltd., Shillong, for kind perusal
4. The DGM (F), AGBP, NEEPCO Ltd., Bokuloni, for kind perusal and needful please. Enclosed a copy of the approval of D (T) Dated 27/08/2020 and Finance concurrence.
5. The DGM (E/M), C&ID, AGBP, NEEPCO Ltd., Bokuloni, for information please.
6. The DGM (Vigilance), AGBP, NEEPCO Ltd., Bokuloni, for information please.

29/8/2020

DGM (E/M)
For & on behalf of
Chief General Manager & Head of Project

AM(E/M)

SL NO: (3+4)
(2022-21)
LIFE CYCLE WIN-XP
& WIN-7

Windows XP

Windows XP follows the Fixed Lifecycle Policy.

This applies to the following editions: Home, Professional, Professional for Embedded Systems, Professional x64, Starter

Important

Support for this product has ended. See migration guidance below.

Support dates are shown in the Pacific Time Zone (PT) - Redmond, WA, USA.

Support Dates

Expand table

Expand table

Listing	Start Date	Mainstream End Date	Extended End Date
Windows XP	Dec 31, 2001	Apr 14, 2009	Apr 8, 2014

Releases

Expand table

Expand table

Version	Start Date	End Date
Service Pack 3	Apr 21, 2008	Apr 8, 2014

Version	Start Date	End Date
Service Pack 2	Sep 17, 2004	Jul 13, 2010
Service Pack 1a	Feb 3, 2003	Oct 10, 2006
Service Pack 1	Aug 30, 2002	Oct 10, 2006
Original Release	Dec 31, 2001	Aug 30, 2005

Links

- Migration guidance
- Service pack policy

7 **Note**

The start date for Microsoft Windows XP Professional x64 Edition was April 24, 2005.

Editions

- Home
- Professional
- Professional for Embedded Systems
- Professional x64
- Starter

3/4

Windows 7

Windows 7 follows the Fixed Lifecycle Policy.

This applies to the following editions: Enterprise, Enterprise N, Home Basic, Home Premium, Home Premium N, Professional, Professional for Embedded Systems, Professional N, Starter, Starter N, Ultimate, Ultimate for Embedded Systems, Ultimate N

) Important

Support for this product has ended. See migration guidance below.

Support dates are shown in the Pacific Time Zone (PT) - Redmond, WA, USA.

Support Dates

Expand table

Expand table

Listing	Start Date	Mainstream End Date	Extended End Date
Windows 7	Oct 22, 2009	Jan 13, 2015	Jan 14, 2020

Releases

Expand table

Expand table

Version	Start Date	End Date
Extended Security Update Year 3*	Jan 12, 2022	Jan 10, 2023

4/4

Version	Start Date	End Date
Extended Security Update Year 2*	Jan 13, 2021	Jan 11, 2022
Extended Security Update Year 1*	Jan 15, 2020	Jan 12, 2021
Service Pack 1	Feb 22, 2011	Jan 14, 2020
Original Release	Oct 22, 2009	Apr 9, 2013

Tip

- Extended Security Updates (ESU) are available through specific volume licensing programs for Windows 7 Professional, Enterprise, and Professional for Embedded Systems editions of this product, for up to an additional three years past the end of support. Contact your Microsoft partner or account team to learn more.

Links

- Migration guidance
- Upgrading from Windows 7 to Windows 10
- Extended Security Update Program (ESU)
- Service pack policy

Note

Microsoft Edge version 109, releasing the week of January 12, will be the last browser version to support Windows 7 and Windows 8.1. Version 109 will be supported until version 110 is released in February 2023, at which time Windows 10 or later will be required to continue using a supported version of Microsoft Edge. Please go here to learn more.

Editions

- Enterprise

NO.NEEPCO/AGBP/C&I/T-52/2019-20/90NBI115/293 Dtd.13/3/2020.

To
M/S GE Oil & Gas India Pvt. Ltd,
(Div Bently Nevada).
A-78/1, CHAKAN MIDC Phase-II,
Vasuli village, KHED Taluka
Pune, Mahastra, Pin-410 501

SUB: P.O for Up gradation of Vibration monitoring & Temperature monitoring system of STG# 2-(Supply portion).

Ref: 1) Our Ref: NEEPCO/AGBP/C&I/T-52/2019-20/257 Dtd. 17/01/2020.
2) Offer reference: NIL dtd 24th January'20

Dear Sir,

In reference to the above Corporation is pleased to place this P.O. for Up-gradation of Vibration monitoring & Temperature monitoring system of STG# 2 at AGBP, NEEPCO Ltd, Bokuloni. Basic Price and terms & conditions of P.O. are as below

1) Field devices (13 no Proximity Probe (5mm)+ 13 no Proximitor+ 13 no connecting cables + 2 no Seismoprobe)	01-SET	49,99,288.00
2) Monitoring System	01-SET	
Basic Price for 01(One) units		49,99,288.00
Rs. 49,99,288/-(Rupees Forty-Nine Lac, Ninety-Nine thousand, Two hundred and Eighty-Eight) only.		

b) **Terms & Conditions are as below: -**

1. **Price Basis**: - The Price indicated above is Ex-work (Pune) basis including packing and forwarding but excluding any tax, duty or levy that may be imposed in India and which, if applicable, shall be borne by NEEPCO at actual.
2. **Payment terms**: - 90% payment against dispatch document through bank with taxes and balance 10% is payable after receipt of material in full and good conditions through RTGS/NEFT within 30 days of receipt of material. **Bank charge is chargeable to the supplier account.** Dispatch document must include copy of all document including Consignment note, challan, Warranty certificate etc.
3. **Freight**: Supplier shall have to send the material to AGBP, NEEPCO through reputed transporter on freight paid basis and the same shall be reimbursed at actual against documentary evidence.
4. **Insurance**: Prior to dispatch Supplier shall inform to The DGM (E/M), MMW, AGBP for insurance coverage of the consignment. Accordingly, The DGM

(E/M), MMW, AGBP shall make necessary arrangement for transit insurance coverage under NEEPCO's open marine insurance policy.

5. **LD clause**: An amount of 0.5% of Contract value per week shall be deducted from the basic value of P.O subject to maximum of 5% of the basic value of P.O. for delay in delivery of the material. LD shall be the sole and exclusive remedy for delay in delivery.
6. **PBG**: 10% of basic value for which Supplier shall have to submit BG of Nationalized Bank in India. BG format shall be mutually discussed and agreed.
7. **Delivery period**: The material shall be delivered within 26- weeks from the date of receipt of confirmed P.O.
8. **Warranty**: Warranty coverage of the materials shall be 24 months from date of supply or 18 months from the date of commissioning whichever is earlier. Seller shall not be responsible for removal of Buyer's facility.
9. **Delivery destination and Consignee**: The DGM (E/M), MMW, AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin: 786191.
10. **Paying Authority**: The DGM (F&A), AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin: 786191.
11. **Bill of materials shall be as per Annex: A**

All other terms & conditions are as per your offer and both way e-mail communications. Kindly convey your acceptance to the Purchase Order and execute the same as early as possible.

Thanking you.

Yours faithfully,

DGM (E/M), C&I Division,
AGBP, NEEPCO Ltd, Bokuloni

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ANNEXURE: A

Bill of materials

Sr. No	Part No	Description	Qty for 1 machine
	Steam Turbine Transducer		
01	330105-02-12-10-02-05	Proximity Probe	10
02	330130-040-00-05	Proximitor	12
03	330180-50-05	Extension Cable	12
04	330101	Axial Sensor	2+5=07
05	26530	Probe Housing	08
06	9200-09-15-03-00	Velocity Probe	08
xx	Wrong supply	Proximity cables	5
07	330705	11 MM Reverse Mount Probe	02+02=04
08	330780-50-05	Proximeter	02
09	330730-040-00-05	Extension Cable	02
10	24765-02-01	LVDT	01+01=02
	Steam Turbine Monitoring System		
01	3500/05	3500 19" Rack	01
02	3500/15	3500 Redundant Power Supply	01
03	3500/22M	3500 Transient Data Interface Module	01
04	3500/25M	3500 Key Phasor Module	01
05	3500/45	3500 Expansion Module	01
06	3500/42M	3500 Vibration Module	05
07	3500/65	3500 Temperature Module	01
08	3500/33	3500 16 Channel Relay Card	01
09	3500/92	3500 MODBUS Comm Module	01
10	3500/94M	10" Display-Panel Mount	01

GE Measurement & Control

VIB MONITORING SYS

SL NO: 09 (2019-20)

SL NO: (05 + 06) (2020-21)

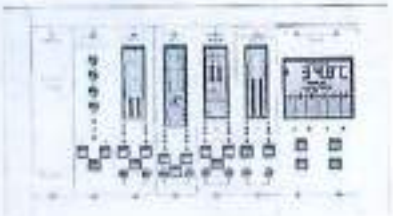
1/4

Product Life Cycle Support Notice

Bently Nevada* Asset Condition Monitoring

3300 Monitoring System Moving to Phase 5

May 2013



Our Product Life Cycle Management Program is intended to help you proactively plan the ongoing operation and maintenance of your Bently Nevada products by providing information on the availability of parts and support. Notices such as this are issued at life cycle milestones to inform you of changes and to provide recommendations on how to move forward.

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Status Details

This notice is to inform you that the 3300 series monitoring system will transition to life cycle Phase 5 on **31 March 2014**.

The 3300 monitor system has a long history of reliable service. It first entered production in early 1988, transitioning to "spares only" status (Phase 3) in mid-2009, and to "repairs only" (Phase 4) in February, 2011. Due to component availability issues and the difficulty of fully supporting repairs we are now moving the 3300 series monitors to Phase 5 as of 31 March 2014. Note that the I/O's and backplanes (the I/O's are the 3300 Power Input Modules, Signal Input Modules, and Signal Input Relay Modules that install at the rear of the 3300 rack and remain in service after a 3500 ENCORE Rack Upgrade) will remain in Phase 3 until 2018 unless they were already in Phase 4 or 5 for a reason outside of this notice.

Phase 5 in our life cycle program means end of life obsolescence. Product repair is not available through Bently Nevada. In order to provide assistance to customers while migration plans are made we have set up a limited time program through a separate GE business that specializes in repair of obsolete GE products. This is described further in the section on Specific Recommendations.

Customers that have not already done so are advised to develop an appropriate migration plan to our newer monitoring technology. Please consult "Specific Recommendations" on page 2 of this notice for additional information on the various fully engineered migration options from 3300 to newer technology.

Affected Parts List

All versions and modules of GE's Bently Nevada 3300 series monitors (Excluding I/O's and backplanes). The following is a list of the current phases of each monitor. This notice affects those listed in PS Status.

3300/00	PS	3300/46	PS
3300/02	PS	3300/47	PS
3300/03	PS	3300/48	PS
3300/04	PS	3300/50	PS
3300/05	PS	3300/52	PS
3300/06	PS	3300/53	PS
3300/07	PS	3300/54	PS
3300/11	PS	3300/55	PS
3300/12	PS	3300/56	PS
3300/13	PS	3300/57	PS
3300/14	PS	3300/58	PS
3300/15	PS	3300/59	PS
3300/16	PS	3300/60	PS
3300/17	PS	3300/62	PS
3300/18	PS	3300/70	PS
3300/19	PS	3300/75	PS
3300/20	PS	3300/80	PS
3300/21	PS	3300/81	PS
3300/25	PS	3300/85	PS
3300/26	PS	3300/90	PS
3300/30	PS	3300/95	PS
3300/35	PS		

Note: 3300 series proximity transducers are not affected by this notice

Product Support

For support information, contact our Bently Nevada technical support team by e-mailing bntechsupport@ge.com, by calling +1 775-215-1818 or by logging into www.bntechsupport.com.

You may also visit us at www.ge-energy.com/bently and navigate to Technical Support for a list of technical support phone numbers specific to your global location.

Specific Recommendations

Since its introduction in 1988, the Bently Nevada 3300 series monitoring system has served with distinction as a highly reliable solution for machinery protection and monitoring needs. However, as technology has advanced, it has become increasingly more difficult to find suppliers that manufacture the components on which the 3300 system relies.

Accordingly, our focus has transitioned from the ability to repair 3300 systems, to being able to offer new products that provide cost effective in-place upgrades and drop-in replacements for 3300 monitor systems. In addition to upgrade and replacement strategies we have set up a separate GE business as a limited time repair center for 3300 monitors in order to support you during the migration period.

After careful assessment, we have formalized the following support plan to help customers with their migration plan:

- Upgrades or replacements of 3300 systems to the 3500 ENCORE Series are eligible for discounts in the case that the 3300 modules are returned to Bently Nevada. This incentive program is termed the 3300 Buy-Back Program. The basic terms are:
  - 15% discount on the 3500 ENCORE hardware
  - 15% discount on the installation services for the 3500 ENCORE Series product
  - Discounts apply for:
    - Projects where the replaced 3300 modules are returned to Bently Nevada.
    - Orders received by 31 September, 2013
    - Ship by end of year, 2013
    - Installation by the end of March, 2014.
  - Contact your Bently Nevada representative for more information on the 3500 ENCORE Series and this incentive program.

- For a limited time, repair of 3300 modules will be supported through a separate GE business that specializes in repair of obsolete and legacy GE products. The capability to provide this repair service is based solely on using components from the 3300 modules returned as part of the 3500 ENCORE upgrade and replacement incentive program. Contact your Bently Nevada representative.

- 3300 I/O modules that remain in service after a 3500 ENCORE Rack Upgrade are planned to remain in Lifecycle

Phase 3 until 2018 excluding major component availability problems or inventory depletion.

- Field verification and troubleshooting services will continue to be available for 3300 monitor systems. While we are committed to provide field service as long as practical, we cannot guarantee that problems encountered by the field service engineers can be corrected due to the inability to repair 3300 modules in most cases.

GE recommends that all 3300 monitoring system customers consult with their local sales professional specializing in Bently Nevada Asset Condition Monitoring to develop an appropriate migration strategy. This strategy should take into account the timeline for Phase 5 outlined above, the planned outage schedules for affected machines, and other relevant details.

We are acutely aware that migration to a newer platform must address the cost-benefit considerations of advanced functionality versus the disruption that system replacement represents. Some customers will place primary emphasis on advanced functionality, with less concern for installation convenience. Others will place primary emphasis on minimal disruption, preferring an "in-place" rack upgrade that preserves field wiring terminations, panel cutouts, and other installation details. Our 3300 migration options will reflect these differing needs, allowing customers multiple choices.

Several migration options exist today. Our 3500 ENCORE Series provides two of those, a simple rack upgrade, the 3500 ENCORE Rack Upgrade, that leaves the 3300 rack, IO, and field wiring terminations in place, and another, an entirely new drop-in 3300 replacement, the 3500 ENCORE System, that replaces the 3300 rack and IO but is designed in chassis sizes that fit the 3300 panel cutout. And, there is always our industry leading 3500 monitor system. The appropriateness of a particular option will vary on a case-by-case basis for each customer depending on their existing 3300 installation, current and future functionality requirements, anticipated service life of the machine being monitored and other details. Your GE sales professional can assist you in understanding these options and evaluating their suitability for your specific situation.

General Recommendations

GE recommends that as new technologies become available, our customers take the opportunity to improve their machinery protection and condition monitoring systems. This allows them to keep pace with continually increasing competitive and regulatory demands for physical asset management, machinery protection, and equipment reliability/availability. Systems approaching obsolescence cannot provide the same level of data access, analysis, and monitoring capabilities that are available from newer product offerings in our Bently Nevada portfolio. Given the multi-year window provided between Phases 3 and 5 in our life cycle management program, customers are encouraged to evaluate the costs of maintaining their current systems against the benefits of migrating to newer platforms.

As GE introduces new Bently Nevada Asset Condition Monitoring products, they are often designed with backward compatibility in mind, allowing the transition from older systems to newer systems with a minimum of disruption and inconvenience. For more information, please contact your nearest GE sales professional specializing in Bently Nevada Asset Condition Monitoring products, or visit us at www.ge-energy.com/bently.

Life Cycle Program Overview

Bently Nevada Asset Condition Monitoring hardware utilizes a life cycle management program consisting of five basic phases:

- **Phase 1: Product Release**
  Hardware is released for sale with full support including ongoing enhancements, custom modifications, new spare parts, and full repair capabilities.
- **Phase 2: Mature Product**
  Same as Phase 1 except that no new enhancements are planned. Custom modifications are still available, but discouraged. A notification of last time to buy new systems is typically issued several months' before transitioning to Phase 3.

- **Phase 3: Spares Only**
  Product is no longer available for new installations and no new custom modifications are available. New spare parts (including those for existing custom modifications) are still available, and repair and support are provided as in Phases 1 and 2. A notification of last time to buy spare parts is typically issued several months[1] before transitioning to Phase 4.
- **Phase 4: No Spares, Limited Support**
  New spare parts are no longer available and support is limited to repair, exchange, or remanufacture (subject to component availability). Notice of last date to repair is typically issued several months[1] before transitioning to Phase 5.
- **Phase 5: Obsolete**
  The product has no or limited support[2] and is not recommended for continued use in a machinery protection application. Customers are advised to migrate to an appropriate replacement product with the assistance of their GE sales professional specializing in Bently Nevada Asset Condition Monitoring.

Notes

1. While reasonable efforts are made to provide timely notices, GE cannot guarantee minimum timeframes for advance notification.
2. Continued support availability in this Phase is subject to change without notice.

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NO.NEEPCO/AGBP/C&I/T-52/2020-21/ Dtd.13/10/2020.

To
M/S GE Oil & Gas India Pvt. Ltd,
(Div Bently Nevada),
A-78/1, CHAKAN MIDC Phase-II,
Vasuli village, KHED Taluka,
Pune, Mahastra, Pin-410 501

SUB: Up gradation of Vibration & Temperature monitoring system of STG# 2 by Supervision of Installation, Configuration and Commissioning (Service portion).

Ref: 1) Our Ref: NEEPCO/AGBP/C&I/T-52/2019-20/257 Dtd. 17/01/2020.
& 2) NEEPCO/AGBP/C&I/T-52/2019-20/90NBI115/293 Dtd.13/3/2020.
3) Offer reference: 1912322 dtd 24th January'20.

Dear Sir,

In reference to above the Corporation is pleased to place this Work Order on repeat order basis for Up gradation of Vibration & Temperature monitoring system of Steam Turbine Generator # 2 by Supervision of Installation, Configuration and Commissioning at AGBP, NEEPCO Ltd, Bokuloni.
Basic Price and terms & conditions of work order are as below.

a) Basic price: Up gradation of Vibration & Temperature monitoring system of Steam Turbine Generator# 2 by Supervision of Installation, Configuration and Commissioning at AGBP	01(one) SET	Rs. 4,73,891.00
≈Rs. 4,73,891/-(Rupees Four Lac, Seventy-Three thousand, Eight hundred and Ninety-One) only.		

b) Terms & Conditions: -

1. Price Basis: - The Price indicated above is the basic price in INR for 01(one) unit.
2. Taxes: GST @ 18% or at actual shall be extra to be paid by NEEPCO against GST invoice.
3. Payment terms: - 100% payment after successful installation & commissioning of the systems within 30 days through RTGS/NEFT on submission of
   1) Invoice in triplicate,
   2) Completion certificate,

3) Supplier's bank details etc. Bank charges if any is chargeable to the supplier's account.

4. **Paying Authority**: The DGM (F&A), AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin: 786191.
5. **Concern Person**: The DGM (E/M), C&I, AGBP, NEEPCO Ltd.
6. **Completion Time**: You must depute your site Engineer as per intimation of site and have to complete your job within stipulated time.
7. **Others**: Above Price is inclusive of (a) To & fro air fare, (b) Local conveyance etc. Boarding & lodging at NEEPCO's Guest House is chargeable if requested for.

All other terms & conditions are as per your offer and both way e-mail communications.

You are requested to convey your acceptance of this Work Order.

Thanking you.

Yours faithfully,

DGM (E/M), C&I Division,
AGBP, NEEPCO Ltd, Bokuloni

Memo No: NEEPCO/AGBP/C&I/T-52/2020-21/ 1128-121 Dtd.13/10/2020

1. The Head of Project, AGBP, NEEPCO for favour of kind information please. This has your kind approval bearing U.O No: 849 dated 25/9/2020.
2. The DGM (Fin), AGBP, NEEPCO Ltd for necessary action please.
3. The DGM (E/M), Vigilance, AGBP, NEEPCO Ltd for information please.
4. T-52/Guard File.

DGM (E/M), C&I,
AGBP, NEEPCO Ltd

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GE Measurement & Control

VIB MONITORING SYS

SL NO: 09 (2019-20)

SL NO: (05 + 06) (2020-21)

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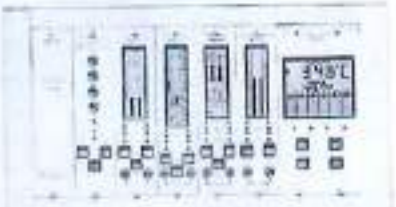
Product Life Cycle Support Notice

Bently Nevada* Asset Condition Monitoring

3300 Monitoring System Moving to Phase 5

May 2013



Our Product Life Cycle Management Program is intended to help you proactively plan the ongoing operation and maintenance of your Bently Nevada products by providing information on the availability of parts and support. Notices such as this are issued at life cycle milestones to inform you of changes and to provide recommendations on how to move forward.

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Status Details

This notice is to inform you that the 3300 series monitoring system will transition to life cycle Phase 5 on **31 March 2014**.

The 3300 monitor system has a long history of reliable service. It first entered production in early 1988, transitioning to "spares only" status (Phase 3) in mid-2009, and to "repairs only" (Phase 4) in February, 2011. Due to component availability issues and the difficulty of fully supporting repairs we are now moving the 3300 series monitors to Phase 5 as of 31 March 2014. Note that the I/O's and backplanes (the I/O's are the 3300 Power Input Modules, Signal Input Modules, and Signal Input Relay Modules that install at the rear of the 3300 rack and remain in service after a 3500 ENCORE Rack Upgrade) will remain in Phase 3 until 2018 unless they were already in Phase 4 or 5 for a reason outside of this notice.

Phase 5 in our life cycle program means end of life obsolescence. Product repair is not available through Bently Nevada. In order to provide assistance to customers while migration plans are made we have set up a limited time program though a separate GE business that specializes in repair of obsolete GE products. This is described further in the section on Specific Recommendations.

Customers that have not already done so are advised to develop an appropriate migration plan to our newer monitoring technology. Please consult "Specific Recommendations" on page 2 of this notice for additional information on the various fully engineered migration options from 3300 to newer technology.

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Affected Parts List

All versions and modules of GE's Bently Nevada 3300 series monitors (Excluding I/O's and backplanes). The following is a list of the current phases of each monitor. This notice affects those listed in P5 Status.

3300/00	P5	3300/48	P5
3300/02	P5	3300/50	P5
3300/03	P5	3300/52	P5
3300/04	P5	3300/53	P5
3300/05	P5	3300/58	P5
3300/06	P5	3300/59	P5
3300/07	P5	3300/60	P5
3300/11	P5	3300/61	P5
3300/12	P5	3300/62	P5
3300/13	P5	3300/63	P5
3300/14	P5	3300/64	P5
3300/15	P5	3300/65	P5
3300/16	P5	3300/66	P5
3300/17	P5	3300/67	P5
3300/18	P5	3300/68	P5
3300/19	P5	3300/69	P5
3300/20	P5	3300/70	P5
3300/21	P5	3300/71	P5
3300/25	P5	3300/75	P5
3300/26	P5	3300/76	P5
3300/30	P5	3300/77	P5
3300/35	P5	3300/78	P5

Note: 3300 series proximity transducers are not affected by this notice

Product Support

For support information, contact our Bently Nevada technical support team by e-mailing bntechsupport@ge.com, by calling +1 775-215-1818 or by logging into www.bntechsupport.com.

You may also visit us at www.ge-energy.com/bently and navigate to Technical Support for a list of technical support phone numbers specific to your global location.

Specific Recommendations

Since its introduction in 1988, the Bently Nevada 3300 series monitoring system has served with distinction as a highly reliable solution for machinery protection and monitoring needs. However, as technology has advanced, it has become increasingly more difficult to find suppliers that manufacture the components on which the 3300 system relies.

Accordingly, our focus has transitioned from the ability to repair 3300 systems, to being able to offer new products that provide cost effective in-place upgrades and drop-in replacements for 3300 monitor systems. In addition to upgrade and replacement strategies we have set up a separate GE business as a limited time repair center for 3300 monitors in order to support you during the migration period.

After careful assessment, we have formalized the following support plan to help customers with their migration plan:

- Upgrades or replacements of 3300 systems to the 3500 ENCORE Series are eligible for discounts in the case that the 3300 modules are returned to Bently Nevada. This incentive program is termed the 3300 Buy-Back Program. The basic terms are:
    - 15% discount on the 3500 ENCORE hardware
    - 15% discount on the installation services for the 3500 ENCORE Series product
    - Discounts apply for:
        - Projects where the replaced 3300 modules are returned to Bently Nevada
        - Orders received by 31 September, 2013
        - Ship by end of year, 2013
        - Installation by the end of March, 2014.
    - Contact your Bently Nevada representative for more information on the 3500 ENCORE Series and this incentive program.
- For a limited time, repair of 3300 modules will be supported through a separate GE business that specializes in repair of obsolete and legacy GE products. The capability to provide this repair service is based solely on using components from the 3300 modules returned as part of the 3500 ENCORE upgrade and replacement incentive program. Contact your Bently Nevada representative.
- 3300 I/O modules that remain in service after a 3500 ENCORE Rack Upgrade are planned to remain in Lifecycle

3/4

Phase 3 until 2018 excluding major component availability problems or inventory depletion.

- Field verification and troubleshooting services will continue to be available for 3300 monitor systems. While we are committed to provide field service as long as practical, we cannot guarantee that problems encountered by the field service engineers can be corrected due to the inability to repair 3300 modules in most cases.

GE recommends that all 3300 monitoring system customers consult with their local sales professional specializing in Bently Nevada Asset Condition Monitoring to develop an appropriate migration strategy. This strategy should take into account the timeline for Phase 5 outlined above, the planned outage schedules for affected machines, and other relevant details.

We are acutely aware that migration to a newer platform must address the cost-benefit considerations of advanced functionality versus the disruption that system replacement represents. Some customers will place primary emphasis on advanced functionality, with less concern for installation convenience. Others will place primary emphasis on minimal disruption, preferring an "in-place" rack upgrade that preserves field wiring terminations, panel cutouts, and other installation details. Our 3300 migration options will reflect these differing needs, allowing customers multiple choices.

Several migration options exist today. Our 3500 ENCORE Series provides two of those, a simple rack upgrade, the 3500 ENCORE Rack Upgrade, that leaves the 3300 rack, IO, and field wiring terminations in place, and another, an entirely new drop-in 3300 replacement, the 3500 ENCORE System, that replaces the 3300 rack and IO but is designed in chassis sizes that fit the 3300 panel cutout. And, there is always our industry leading 3500 monitor system. The appropriateness of a particular option will vary on a case-by-case basis for each customer depending on their existing 3300 installation, current and future functionality requirements, anticipated service life of the machine being monitored and other details. Your GE sales professional can assist you in understanding these options and evaluating their suitability for your specific situation.

General Recommendations

GE recommends that as new technologies become available, our customers take the opportunity to improve their machinery protection and condition monitoring systems. This allows them to keep pace with continually increasing competitive and regulatory demands for physical asset management, machinery protection, and equipment reliability/availability. Systems approaching obsolescence cannot provide the same level of data access, analysis, and monitoring capabilities that are available from newer product offerings in our Bently Nevada portfolio. Given the multi-year window provided between Phases 3 and 5 in our life cycle management program, customers are encouraged to evaluate the costs of maintaining their current systems against the benefits of migrating to newer platforms.

As GE introduces new Bently Nevada Asset Condition Monitoring products, they are often designed with backward compatibility in mind, allowing the transition from older systems to newer systems with a minimum of disruption and inconvenience. For more information, please contact your nearest GE sales professional specializing in Bently Nevada Asset Condition Monitoring products, or visit us at www.ge-energy.com/bently.

Life Cycle Program Overview

Bently Nevada Asset Condition Monitoring hardware utilizes a life cycle management program consisting of five basic phases:

- **Phase 1: Product Release**
  Hardware is released for sale with full support including ongoing enhancements, custom modifications, new spare parts, and full repair capabilities.
- **Phase 2: Mature Product**
  Same as Phase 1 except that no new enhancements are planned. Custom modifications are still available, but discouraged. A notification of last time to buy new systems is typically issued several months' before transitioning to Phase 3.

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- **Phase 3: Spares Only**
  Product is no longer available for new installations and no new custom modifications are available. New spare parts (including those for existing custom modifications) are still available, and repair and support are provided as in Phases 1 and 2. A notification of last time to buy spare parts is typically issued several months[1] before transitioning to Phase 4.
- **Phase 4: No Spares, Limited Support**
  New spare parts are no longer available and support is limited to repair, exchange, or remanufacture (subject to component availability). Notice of last date to repair is typically issued several months[1] before transitioning to Phase 5.
- **Phase 5: Obsolete**
  The product has no or limited support[2] and is not recommended for continued use in a machinery protection application. Customers are advised to migrate to an appropriate replacement product with the assistance of their GE sales professional specializing in Bently Nevada Asset Condition Monitoring.

Notes

1. While reasonable efforts are made to provide timely notices, GE cannot guarantee minimum timeframes for advance notification.
2. Continued support availability in this Phase is subject to change without notice.

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NEEPCO/AGBP/HOP/2019-20/W-8(B)/ 367 dtd. 23.10.19

To,

M/S BHEL-GE Gas Turbine Services Pvt. Ltd.,
Module No. A1, A2 & A3, Quadrant No.1,
Cyber Towers, HITEC City,
Madhapur, Hyderabad,
Telangana, India,
PIN – 500 081

Sub: NEEPCO/AGBP – Work order for Technical Advisory Services for Major Inspection of Gas Turbine, Load Gear Box & Auxiliary Gear Box of BHEL supplied Frame VI B Gas Turbine Unit # 5

Ref:
1. Our letter No. NEEPCO/AGBP/GT&Aux./W-32/2019-20/43 Dated 29/05/2019
2. Your offer No. QSE19/0076 Dated 05/06/2019
3. Our letter No. NEEPCO/AGBP/GT&Aux./W-32/2019-20/62 Dated 18/06/2019
4. Your letter No. QSE19/0076-clr 01 Dated 21/06/2019
5. Our letter No. NEEPCO/AGBP/GT&Aux./W-32/2019-20/75 Dated 10/07/2019
6. Your letter No. QSE19/0076-clr.02 Dated 12/07/2019
7. Our letter No. NEEPCO/AGBP/GT&Aux./W-32/2019-20/91 Dated 25/07/2019
8. Your letter No. QSE19/0076-clr.03 Dated 25/07/2019
9. Our letter No. NEEPCO/AGBP/GT&Aux./W-32/2019-20/108 Dated 31/08/2019
10. MOM Dated 09/09/2019 held between M/S BGGTS & NEEPCO Ltd.
11. Our LOI issued vide No. NEEPCO/AGBP/HOP/2019-20/W-8(B)/350 Dated 17/10/2019
12. Your acceptance vide E-mail Dated 18/10/2019

Dear Sirs,

With the above reference, the Corporation is pleased to place this Work Order for Technical Advisory Services for Major Inspection of Gas Turbine, Load Gear Box & Auxiliary Gear Box of BHEL supplied Frame VI B Gas Turbine Unit # 5 as per following terms & conditions.

Terms & Conditions:

1. **Scope of Contract:** BHEL-GE Gas Turbine Services Pvt. Ltd. shall provide NEEPCO, AGBP with technical advisory services by deputing required Technical Advisors for Major Inspection of Gas Turbine, Load Gear Box & Auxiliary Gear Box of BHEL supplied Frame VI B Gas Turbine Unit # 5.
2. **Prices:** The prices for Technical Advisory Services for Major Inspection of Gas Turbine, Load Gear Box & Auxiliary Gear Box of BHEL supplied Frame VI B Gas Turbine Unit # 5 is ₹ 69,84,000.00 (Rupees Sixty-Nine Lakhs Eighty-Four Thousand) only excluding of GST. The above mentioned prices are inclusive of supervisory services fees for working days as well as journey periods & travel expenses. The above prices are net receivable amounts and do not include any kind of taxes which are to be paid extra at actuals by NEEPCO.
3. **Payment:**
   a) 100% payment shall be made after completion of works and within 15 (fifteen) days from the date of submission of invoices. The following documents should be submitted for the above payment.
      (i) BGGTS detailed invoice in triplicate
      (ii) Working time sheet duly signed by NEEPCO

4. **Taxes:** All taxes shall be paid extra as applicable. The present rate of GST is @ 18%.
5. **Schedule of Inspection:** The tentative date for Major Inspection of Gas Turbine, Load Gear Box & Auxiliary Gear Box of BHEL supplied Frame VI B Gas Turbine Unit # 5 is schedule for November – December, 2019. The exact date will be intimated in due course. Accordingly, BGGTS TA must be available at site for commencement of the inspection activities during their period.
6. **Paying Authority:**
   The DGM (Fin.),
   Assam Gas Based Power Plant, NEEPCO Ltd.,
   No.3 Bokuloni Village,
   Dist. Dibrugarh, Assam, PIN – 786 191
7. **NEEPCO's obligation & input:**
   i) NEEPCO shall provide designated officer for necessary co-ordination between BGGTS and NEEPCO and supervise the entire work.
   ii) Accommodation and local transport facilities for Technical Advisors of BGGTS after arrival at nearest airport / railway station at Dibrugarh / Tinsukia will be provided by NEEPCO free of cost.
   iii) NEEPCO shall provide necessary operators and supervisors for shut and startup operations and skilled, semi-skilled and un-skilled workers as per requirement.
   iv) NEEPCO shall provide BGGTS Technical Advisors with drawings and technical information as provided by the original supplier and necessary instruments, test equipment's and special tools & tackles provided by the OEM for carrying out the work.
   v) Necessary spares and materials as may be required will be provided by NEEPCO.
   vi) Basic facilities as available at the plant will be extended to BGGTS Technical Advisors, if necessary.
   vii) Photography / videography at site to record the inspection work will be allowed.
   viii) Providing safety of BGGTS Technical Advisors shall be responsibility of BGGTS.

8. **Records:**
   The Technical Advisors of BGGTS will maintain and submit the following records to NEEPCO at the end of the work.
   - Detail records relating to the works carried out.
   - Different technical parameters measured during the work.
   - Finding relating to conditions of various components with suggestive measures, if any.

Kindly acknowledge receipt of this order and convey your acceptance please.
Thanking you,

Yours faithfully,
23/10/19
DGM (E/M)
For & on behalf of
CGM & Head of Project

NIO
Memo No. NEEPCO/AGBP/ HOP/2019-20/W-8(B)/ 368 - 71 Dated 23.10.19
Copy to:
1. The Executive Director (O&M), NEEPCO Ltd., Shillong, for kind perusal please. This has reference to his approval Dated 01/10/2019 conveyed vide U.O. No. 608 Dated 01/10/2019.
2. The DGM (F), AGBP, NEEPCO Ltd., Bokuloni, for information please. Enclosed a copy of the approval.
3. The DGM (E/M), GT&AD, AGBP, NEEPCO Ltd., Bokuloni, for information please.
4. The DGM (Vigilance), AGBP, NEEPCO Ltd., Bokuloni, for information.

23/10/19
DGM (E/M)
For & on behalf of
Chief General Manager &
Head of Project

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लिमिटेड
(मिनी रत्ना, श्रेणी १, भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Limited,
(Mini Ratna Category – I, Govt. of India Enterprise)
ISO: 9001 – 2015
ISO: 14001 – 2015
OHSMS: 45001 – 2018
असम गैस बेस्ड पावर प्लांट, का॰ संयंत्र प्रमुख
Assam Gas Based Power Plant, O/o the Head of Project
डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

No. NEEPCO/AGBP/HOP/2020-21/W-8(B)/ 197 Dated 24/8/2020

To,

M/S BHEL-GE Gas Turbine Services Pvt. Ltd.,
Module No. A1, A2 & A3, Quadrant No.1,
Cyber Towers, HITEC City,
Modhupur, Hyderabad,
Telangana, India,
PIN – 500 081

Sub: NEEPCO/AGBP – Work order for Technical Advisory Services for Major Inspection of Gas Turbine with Load Gear Box & Auxiliary Gear Box and repair/ installation of Exhaust Plenum of BHEL supplied Frame VI B Gas Turbine Unit # 6.

Ref:
1. Our letter No. NEEPCO/AGBP/GT&Aux./2019-20/W-32/266 Dated 24/01/2020
2. Your offer No. QSE19/0368-Rev.01 Dated 28/02/2020
3. Our letter No. NEEPCO/AGBP/GT&Aux./2020-21/W-32/07 Dated 18/05/2020
4. Your letter No. QSE19/0368-Rev.01-Clr.01 Dated 25/05/2020
5. Our letter No. NEEPCO/AGBP/GT&Aux./2020-21/W-32/24 Dated 30/05/2020
6. Your letter No. QSE19/0368-Rev.01-Clr.02 Dated 01/06/2020
7. Your letter No. QSE19/0368-Rev.01-Clr.03 Dated 04/06/2020
8. Your letter No. QSE19/0368-Rev.01-Clr.04 Dated 30/07/2020

Dear Sirs,

With the above reference, the Corporation is pleased to place this Work Order for Technical Advisory Services for Major Inspection of Gas Turbine with Load Gear Box & Auxiliary Gear Box and repair of Exhaust Plenum for BHEL supplied Frame VI B Gas Turbine Unit # 6 as per following terms & conditions.

Terms & Conditions:

1. **Scope of Contract:** BHEL-GE Gas Turbine Services Pvt. Ltd. shall provide NEEPCO, AGBP with technical advisory services by
   (i) Deputing required Technical Advisors for Major Inspection of Gas Turbine with Load Gear Box & Auxiliary Gear Box of BHEL supplied Frame VI B Gas Turbine Unit # 6.
   (ii) Turnkey services (deployment of TA's and Craft manpower with tools and tackles) for disassembly, replacement & assembly of Exhaust Plenum of BHEL supplied Frame VI B Gas Turbine Unit # 6.
2. **Prices:** The prices for Technical Advisory Services for Major Inspection of Gas Turbine with Load Gear Box & Auxiliary Gear Box of BHEL supplied Frame VI B Gas Turbine Unit # 6 is ₹ 69,84,000.00 (Rupees Sixty-Nine Lakh Eighty-Four Thousand) and ₹ 56,00,000.00 (Rupees Fifty-Six Lakhs) only for Turnkey services for disassembly, replacement & assembly of

Exhaust Plenum. The above mentioned prices are lump sum prices inclusive of supervisory services & travel expenses.
The above prices are net receivable amounts and do not include any kind of taxes which are to be paid extra at actuals by NEEPCO.

3. **Payment:**
   a) 100% payment shall be made after completion of works and within 15 (fifteen) days from the date of submission of invoices. The following documents should be submitted for the above payment.
      (i) BGGTS detailed invoice in triplicate.
      (ii) Work completion certificate.
      (iii) Bank details for payment.

4. **Taxes:** All taxes shall be paid extra as applicable. The present rate of GST is @ 18%.
5. **Schedule of Inspection:** The tentative date for Major Inspection of Gas Turbine with Load Gear Box & Auxiliary Gear Box and Exhaust Plenum repair of BHEL supplied Frame VI B Gas Turbine Unit # 6 is scheduled for October - November, 2020. The exact date will be intimated in due course. Accordingly, BGGTS TA must be available at site for commencement of the inspection activities during that period.
6. **Paying Authority:**
   The DGM (Fin.),
   Assam Gas Based Power Plant, NEEPCO Ltd.,
   No.3 Bokuloni Village,
   Dist. Dibrugarh, Assam, PIN – 786 191.
7. **NEEPCO's obligation & input:**
   i) NEEPCO shall provide designated officer for necessary co-ordination between BGGTS and NEEPCO and supervise the entire work.
   ii) Accommodation and local transport facilities for Technical Advisors of BGGTS after arrival at nearest airport / railway station at Dibrugarh / Tinsukia will be provided by NEEPCO free of cost.
   iii) NEEPCO shall provide necessary operators and supervisors for shut down and startup operations and skilled, semi-skilled and un-skilled workers for MI job as per requirement.
   iv) NEEPCO shall provide BGGTS Technical Advisors with drawings and technical information as provided by the original supplier and necessary instruments, test equipment's and special tools & tackles provided by the OEM for carrying out the MI Job.
   v) Necessary spares and materials as may be required for MI Job will be provided by NEEPCO.
   vi) Basic facilities as available at the plant will be extended to BGGTS Technical Advisors, if necessary.
   vii) Photography / videography at site to record the inspection work will be allowed.
   viii) Providing safety of BGGTS Technical Advisors shall be responsibility of BGGTS.

8. **Records:**
   The Technical Advisors of BGGTS will maintain and submit the following records to NEEPCO at the end of the work.
   - Detail records relating to the works carried out.
   - Different technical parameters measured during the work
   - Finding relating to conditions of various components with suggestive measures, if any.

Kindly acknowledge receipt of this order and convey your acceptance please.
Thanking you,

Yours faithfully,
24/08/2020
DGM (E/M)
For & on behalf of
CGM & Head of Project

NIO

Memo No. NEEPCO/AGBP/ HOP/2020-21/W-8(B)/ 198-202 Dated 24/8/2020

Copy to:

1. The D(T), NEEPCO Ltd., Shillong - for kind perusal please. This has reference to his approval Dated 20/08/2020 conveyed vide E-mail Dated 21/08/2020 of ED (O&M).
2. The Executive Director (O&M), NEEPCO Ltd., Shillong - for kind perusal please.
3. The DGM (E/M), GT & Aux. AGBP, NEEPCO Ltd., Bokuloni, for information please
4. The DGM (Fin), AGBP, NEEPCO Ltd., Bokuloni. Enclosed a copy of the approval
5. The DGM (E/M), Vigilance wing, AGBP, NEEPCO Ltd

24/08/2020

DGM (E/M)
For & on behalf of
Chief General Manager &
Head of Project

NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
(A Govt. of India Enterprise)
OFFICE OF THE DGM (E/M), PEM
ASSAM GAS BASED POWER PLANT
BOKULONI - 786191, Dist.: Dibrugarh, Assam
Phone: (0374) 2825215, Fax: (0374) 2825349/2825217

Ref: NEEPCO/AGBP/PEM/O&M-01/2020-2021/136

Dated. 03/08/2020

To,

M/S Minimac Systems Pvt. Ltd.
Gate no. 68, Plot no.11,
Jyotiba Nagar, Pune-412114

Kind attention to Mr. Anshuman Agarwal, Email:tenders@minimac.com Phone: +8975850700

Sub: Detailed Order for "Design, Engineering, Manufacturing, Supply, Testing and Commissioning of Transformer Filtration Plant of capacity 6000LPH, 1200LPH and 2KL Transformer Oil Storage tank" to AGBP, NEEPCO Ltd.

Ref:

i) Our NIT No: NEEPCO/AGBP/PEM/O&M-01/19-20/02 dated. 22.01.2020 (Tender ID: 2020_NEEPC_40965_1)
ii) Your Offer & Bid Form-A dtd.24/02/2020.
iii) Our letter vide NEEPCO/AGBP/PEM/O&M-01/2019-20/608 dated. 31/03/2020 for clarifications.
iv) NEEPCO/AGBP/PEM/O&M-01/2020-21/49 dated. 26/05/2020.
v) Your clarifications via email dtd.28/5/2020.
vi) Our Email dated 10/06/2020.
vii) Your clarifications via email dtd.12/06/2020.
viii) NEEPCO/AGBP/PEM/O&M-01/20-21/68 dtd. 19/06/2020
ix) NEEPCO/AGBP/PEM/O&M-01/20-21/73 dtd. 23/06/2020 for intimation of e-RA.
x) Auction Details, Auction Hall History of Govt. eProcurement system dtd. 27/06/2020.
xi) Final Price Confirmation against Reverse Auction conveyed via email dtd.29/06/2020.
xii) LOI vide NEEPCO/AGBP/PEM/O&M-01/2020-21/114 dated. 21/07/2020.
xiii) Your acknowledgement & acceptance of LOI via email dated. 28/07/2020.

Sir,

With reference to above, the Corporation is pleased to issue this Detailed Order for "Design, Engineering, Manufacturing, Supply, Testing and Commissioning of Transformer Filtration Plant of capacity 6000LPH, 1200LPH and 2KL Transformer Oil Storage tank" to AGBP, NEEPCO Ltd. as per following terms and conditions.

1. **SCOPE OF WORKS**: Design, Engineering, Manufacturing, Inspection and Testing at Manufacturer's works before dispatch, Packing & Forwarding, Supply, Transportation to site, Insurance from the source of supply till commissioning, Material Handling, Loading and unloading, Storage at Site, Testing and Commissioning of followings for our MHI/BHEL make Transformer at AGBP, NEEPCO Ltd., Bokuloni, Dibrugarh, Assam, Pin:786191.

1.1 1(One) complete set of Transformer filtration plant of capacity 6000LPH (Model: M60) having high vacuum 2(two) stage oil filtration provided with thermostat controlled oil heaters and vacuum proof house with independent vacuum pumping system confirming to IS: 6034:1989 (Reaffirmed 2005) or latest revision complete with Consumable Spares & Accessories as specified in NIT.

1.2 1(One) complete set of Transformer filtration plant of capacity 1200LPH (Model: M12) provided with thermostat controlled oil heaters and vacuum proof house with independent vacuum pumping system confirming to IS: 6034:1989 (Reaffirmed 2005) or latest revision.

1.3 1(One) complete set of Single Chamber Skid Mounted Type Transformer Oil Storage Tank (Model: M20) of capacity 2 KL with silica gel breather and as per relevant IS/IEC/International standards.

1.4 **Consumable Spares & Accessories**: The scope also includes the Consumable Spares & Accessories required for the main equipment i.e. 6000LPH, 1200LPH & 2 KL Transformer Oil Storage Tank complete in all respect as detailed in **Annexure-C (Technical Specifications & Schedule of Requirement)**.

1.5 **Field Service**: The bidder had to ensure the appropriate technical support service consisting of factory trained Customer Engineers dedicated to the start-up, maintenance and repair of equipment. In case of breakdown of equipment's or urgency, the bidder shall be ensured to provide Technical support service within 48 hrs from the time of intimation during contract periods.

2. **Delivery Periods/Completion Time**: 04 (four) months from the date of issue of Letter of Intent (zero date).

3. **Service Life Period & Availability of Spares**: Service Life periods & Availability of Spares of the offered equipment which shall be at least 15-20 years or as per CEA latest guidelines from the date of issue of this LOI based on agreed term & conditions.

4. The supplied equipment shall be as per relevant IEC Standards/International Standards or latest revision. Supplier shall be complied and fulfil the required technical specifications as detailed in **Annexure-C (Technical Specifications & Schedule of Requirement)**.

5. **Contract Performance Guarantee/Security Deposit**: The successful bidder shall have to submit Contract Performance Guarantee (CPG)/ Bank Guarantee in lieu of Security Deposit@10% of the Contract Price/*Contract Price for each complete set of equipment* (as applicable) valid for a period of 90 days from the date of expiry of Guarantee/warranty periods as per our prescribed format as enclosed (Annexure-CPG/SD). The CPG/Security Deposit shall have to submit within a period of 30 days from the date issue of Contract Order.

6. **PAYMENT TERMS: -**

   (i) 100%(one hundred percent) of Ex Works Price along with all applicable taxes and duties shall be paid within 30 days after receipt of materials in full and good condition at site subject to submission of Contract Performance Guarantee (CPG)/Bank Guarantee (BG) in lieu of Security Deposit @10% of the *Contract Price Contract/Price for each complete set of equipment* (as applicable)having validity for the period of 90 days from date of expiry of guarantee/warrantee period and production of the following documents to the consignee:-

   (a) Contractor's detailed Invoice.
   (b) Detailed packing list
   (c) Test certificate and / or duly approved Inspection certificate, or proof of waiver of inspection / tests.
   (d) Dispatch clearance
   (e) Documentary evidence against payment of Taxes and Duties.
   (f) Guarantee/ warranty certificate.
   (g) Bank account details for e-payment.

   ii) Provision for Part payment for part delivery against each complete set of equipment shall be allowed.

7. **Security Deposit**: 10% of contract value shall be deducted as Security Deposit from the supplier or the supplier shall have to submit Bank Guarantee in lieu of Security Deposit @10% of the Contract Price valid for a period of 90 days from the date of expiry of Guarantee/warranty periods as per our prescribed format as enclosed (Annexure-SD). The Security Deposit shall have to submit within a period of 30 days from the date issue of Contract Order.

8. **Guarantee/Warranty**: The materials supplied shall be warranted / guaranteed as per manufacturer's norms or for a period of 18 months from the date of despatch or 12 months from the date of successful commission whichever is earlier against manufacturing defect/ defective workmanship. The contractor shall supply the materials to the satisfaction of the Engineer-in-charge. Defective materials shall be replaced/ rectified by the supplier at free of cost immediately on intimation from this end.

9. **Prices Basis**: The Prices are FOR AGBP, NEEPCO, Bokuloni basis. Total Basic Price for "Design, Engineering, Manufacturing, Supply, Testing and Commissioning of Transformer Filtration Plant of capacity 6000LPH, 1200LPH and 2KL Transformer Oil Storage tank" shall be for an amount Rs. 25,13,814.00 (Rupees Twenty-Five Lakh Thirteen Thousand Eight Hundred Fourteen) and Total Price for same shall be Rs 29,66,300.00 (Rupees Twenty-Nine Lakh Sixty-Six Thousand Three Hundred) only inclusive of all applicable taxes (GST), duties, freight & transit insurance, levies etc. as detailed in **Annexure-A (Schedule of Price)**. The prices shall remain FIRM for the entire period of Contract.

10. **Insurance coverage**: The supplier shall arrange for coverage of insurance policy viz transit insurance till delivery at site, storage at project site, testing and commissioning of the supplied equipment's shall be covered under the scope of contract and take full responsibility during transit and comply with necessary safety measures as called for relevant Act/Regulations.

11. **Taxes and Duties**: The above mentioned price is inclusive of all applicable (GST) taxes and duties. However, the GST shall be applicable as per GST rule at the time of execution subject to submission of GST registration, HSN code and payment details. Kindly submit GST Invoice with all information details as per GST rule.

12. **Liquidity Damage:** Time is the essence of the Contract. If the performance of the Contract is delayed due to the reason attributed to the Contractor, the Purchaser shall without prejudice to his right to recover damages for breach of the Contract:

    i. Reduce the Contract price by 1/2 %(half percent) per week or part thereof of delay in completion of time subjected to maximum of 10% of the contract price

    ii. Execute or authorize the execution of work departmentally or through any other agency without any notice to the Contractor at the risk and cost of the Contractor. The decision of the Purchaser shall be final and binding upon the Contractor. However, the above action shall be taken without cancelling the contract in respect of work not yet due to execution. Or

    iii. Cancel the entire Contract on or portion thereof and if so desired, execute or authorize the execution of the work departmentally or through any other agency at the risk and cost of the Contractor. If the Contractor had defaulted in the performance of the Contract, the Purchaser may ignore the rates quoted by him for respective work even though the lowest for execution through other agency.

    Where action is taken under sub-clause (i) or (iii) above to failure to complete the work, the Contractor shall be liable for any loss, which the Purchaser may sustain on that account. But the Contactor shall not be entitled to any gain on such execution and the manner and method of such execution shall be in the entire discretion of the Purchaser. It is not be necessary for the Purchaser to serve a notice of such execution of the Contractor.

13. **Pre dispatch Inspection and Testing**: Testing shall be carried at manufacturer's/ contractor's works as per relevant IS & IEC. The tests shall be performed in presence of the Corporation's representative. For deputation of an authorized representative for inspection and to witness such tests, the contractor shall give at least 15 (fifteen) days advance notice to the Corporation intimating the actual date of inspection and details of all tests that are to be carried out from the date when the tests will be carried out. The entire cost of tests that are to be carried out as per relevant IS shall be treated as included in the quoted price.

14. **Dispatch clearance:** No materials shall be dispatched without inspection or his authorized representative or otherwise given dispatch clearance by the purchaser in writing to the Supplier.

15. **Training**: Contractor shall arrange to demonstrate/ training at site for the Purchaser's engineers to accrue technical knowledge, smooth operation and maintenance the new equipment. The Contractor shall have no liability towards traveling and of boarding, lodging expenses of trainees during this training. The liability shall be restricted to providing training and training material.

16. **Instruction Manual:** The contractor shall provide 5(five) set of instructional manual containing details of the plant operation and maintenance along with all relevant drawings. The manuals shall clearly indicate the procedures of installation, Operation & Maintenance, safety, healthiness check-up, tests to be carried out etc. in details.

17. **Training of Personnel**: Contractor shall arrange to demonstrate/ training at site for the Purchaser's engineers to accrue technical knowledge, smooth operation and maintenance the new equipment. The Contractor shall have no liability towards traveling and of boarding, lodging expenses of trainees during this training. The liability shall be restricted to providing training and training material.

18. **E-way Bill (Road Permit):** E-way bill (Road Permit) may please be generated by the supplier. Our GSTIN NO is '18AAACN9981J3ZP'. No any responsibility will be taken for issuance of E-way bill by the purchaser.

19. **Consignee:** The materials with accessories shall be delivered FCR AGBP site at the address i.e. DGM (E/M), MMW; AGBP, NEEPCO Ltd, Bokuloni, Dist.: Dibrugarh, Assam, PIN – 786191.

20. **Paying Authority:** The DGM (Fin), AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam.

21. **Jurisdiction of Court:** The Contract shall be governed by the laws of India for the time being in force and shall be subjected to the jurisdiction of the High Court of judicature at Guwahati High Court, Assam.

22. **Signing of Contract / Agreement**: After issue of the Letter of Intent and on receipt of its unconditional acceptance, the Owner shall issue detailed work order. On acceptance of the detailed work order and acceptance of Contract Performance Guarantee/SD submitted by the supplier, the Owner shall prepare the Contract Agreement on Non-Judicial Stamped Paper and the successful supplier will be informed for signing of the Contract Agreement on a notified date. Signing of the Contract Agreement will be done in the office of the Office of the DGM (E/M), PEM, AGBP, NEEPCO LTD., Bokuloni, Dibrugarh, Assam.

All the terms and conditions, technical specifications which are not indicated here shall be governed as per Bid documents and agreed terms and conditions. Further, any other necessary item/protective devices/equipment and accessories whether specifically mentioned herein or not, but necessary for completeness and satisfactory performance of the Filter Machine and accessories shall be provided.

You are requested to kindly acknowledge the receipt of this Detailed Order and conveyance your acceptance.

Enclosed:

(i) Annexure- A (Price Schedule)
(ii) Annexure- B (Guaranteed Technical Particulars)
(iii) Annexure-C (Technical Specification & Schedule of Requirement).
(iv) Annexure-D (Model Forms of BG for SD/CPG).

Yours faithfully,

(Dinabandhu Baishya)
Deputy General Manager (E/M)
Plant Electrical Maintenance,
AGBP, NEEPCO LTD., Dibrugarh, Assam.

NEEPCO/AGBP/PEM/O&M-01/2020-21/373 dtd. 30/12/2020

To,
M/S ABB Power Products and Systems India Limited
Power Grid High Voltage Service, Maneja Works, Maneja
Vadodara-390013, Gujarat. (GST Number: 24AARCA9513E12N)

Kind attention to Mr. Virag Dave/A.Dubey
Email: dave.virag@ in.abb.com; ajay.k.dubey@in.abb.com; Mobile no: +919724334061

Sub: Repeat Order for "Design, Manufacturing, Supply, Retrofitting, Testing and Commissioning of 4(four) sets of 245KV SF6 Spring Operated Mechanism Circuit Breaker as per Breaker Standard IEC 62271-100 by dismantling old existing BHEL make 245KV SF6 CB at AGBP, NEEPCO LTD., Bokuloni.

Ref.:
1. NEEPCO/AGBP/PEM/O&M-01/2018-19/06 dtd. 13/02/2019 (Tender ID: 2019_NEEPC_21736_1).
2. Detailed Order vide No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd. 12/09/2019.
3. Manufacturing clearance for 2nd phase (7set CB) conveyed via email dtd.16/09/2020.
4. Request for confirmation of repeat order vide NEEPCO/AGBP/PEM/O&M-01/2020-21/229 dtd. 25/09/2020 & email dtd. 19/11/2020 & 7/12/2020.
5. Your confirmation conveyed via email dtd.20/11/2020 & 08/12/2020.
6. Waive of Inspection for testing vide NEEPCO/AGBP/PEM/O&M-01/2020-21/321 dtd. 27/11/2020.
7. Your email dtd.15/12/2020 for dispatch of materials for 2nd phase.
8. Our email dtd. 22/12/2020 for retrofitting works in 2nd phase.
9. Your confirmation for retrofitting works of CB in 2nd phase via email dtd. 28/12/2020.

With reference to above, the Corporation is pleased to issue this Repeat Order for "Design, Engineering, Manufacturing, Supply, Retrofitting/erection, Testing and Commissioning 4(four) sets **(2sets for GTGs and 2sets for Station Transformer)** of 245KV SF_6 Circuit Breaker (Spring Operated) as per Breaker Standard IEC 62271-100" by dismantling old existing Hydraulic Operated SF_6 Circuit Breaker and Annual maintenance Contract (AMC) for 5(five) years **in line with the order No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd.12/09/2019.**

1. **Scope of Contract**: Design, Engineering, Manufacture, Inspection and Testing at Manufacturer's works before dispatch of 245 KV SF6 (Spring operated mechanism) CB, Packing & Forwarding, Supply, Transportation to site, Insurance from the source of supply till commissioning, Material Handling, Loading and unloading, Storage at Site, Dismantling of old existing BHEL make 245 KV SF6 (Hydraulic operated) Circuit Breaker, Retrofitting/Erection, Testing and Commissioning of new 4(four) sets **(2sets for GTGs and 2sets for Station Transformer)** of 245 KV SF6 Spring Operated Circuit Breaker at AGBP, NEEPCO LTD., Bokuloni, Dibrugarh, Assam as per required technical specifications & scope of contract as detailed in Annexure-B & C of the order No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd.12/09/2019.

2.1 **Prices:** The Prices are FOR AGBP, NEEPCO, Bokuloni basis. Total Basic Price for Supply, Dismantling, Retrofitting/Installation, Testing, Commissioning and AMC shall be for an amount Rs.72, 18, 378.00 (Rupees seventy two lakh eighteen thousand three hundred seventy eight) and Total Price for same shall be Rs.88, 11,416.00 (Rupees eighty eight lakhs eleven thousand four hundred sixteen) only inclusive of all applicable taxes (GST), duties, freight & transit insurance, levies etc. as detailed in Annexure-A (Schedule of Price). *However, freight charges shall be paid at actual basis subjected to submission of documentary evidences.* The prices shall remain FIRM for the entire period of Contract.

2.2 **Insurance coverage:** The supplier shall arrange for coverage of insurance policy viz transit insurance till delivery at site, storage at project site, erection, testing and commissioning of the supplied equipment's shall be covered under the scope of contract and take full responsibility during transit and comply with necessary safety measures as called for relevant Act/Regulations. *The price is also inclusive of insurance coverage for manpower to be engaged during dismantling/retrofitting, testing and commissioning works at our site. Kindly ensure the insurance coverage before starting pre-commissioning activities.*

2.3 **Taxes and Duties**: The above mentioned price is inclusive of GST. However, the GST shall be applicable as per GST rule at the time of execution subject to submission of GST registration, HSN code and payment details. Kindly submit GST Invoice with all information details as per GST rule.

3.0 **Annual Maintenance Contract:** The supplier need to complete preventive and full service maintenance contracts of each equipment for a period of 5 (five) years from the date of date of expiry of Warrantee/Guarantee periods of the equipment's or the concern equipment (as applicable) as detailed under scope of works for AMC in Annexure-C of the order No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd.12/09/2019.

4.0 **Delivery Period:** 4(four) complete set of equipment/material within 6 months from the date of approval of drawing/manufacturing clearance. However, the party shall try to deliver in 4-5 months from the date of approval of drawing/manufacturing clearance.

5.0 **Dismantling, Retrofitting, Testing and Commissioning Period:** The works for 4(four) set of SF6 CB shall be completed within 15 days per CB depending on availability of shutdown in series. Effort shall be given to complete the retrofitting works in minimum time if NEEPCO can able to avail the shutdown in series. *Prior intimation shall be given in due time and effort will be given from our end to avail the shutdown in a shortest possible time.*

6.0 **Technical Specification, Guaranteed Technical Particulars** and all other terms & conditions including Contract Performance Guarantee/Security Deposit for Supply, Retrofitting, Testing and Commissioning; CPG/Security Deposit for AMC; Payment Terms; Guarantee/Warranty; Liquidity Damage; Tests at Factory and Test Certificates; Dispatch clearance; Operational & Maintenance Manual etc. shall be as per order No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd.12/09/2019. Also, the terms and conditions which are not indicated here shall be governed as per Bid documents and agreed terms and conditions. Further, any other necessary item/protective devices/equipment and accessories whether specifically mentioned herein or not, but necessary for completeness and satisfactory performance of the 245KV SF6 CB and accessories shall be provided.

7.0 **E-way Bill (Road Permit):** E-way bill (Road Permit) may please be generated by the supplier. Our GSTIN NO is '18AAACN9991J3ZP'. No any responsibility will be taken for issuance of E-way bill by the purchaser.

8.0 **Consignee:** The materials with accessories shall be delivered FOR AGBP site at the address i.e. DGM (E/M), MMW; AGBP, NEEPCO Ltd, Bokuloni, Dist: Dibrugarh, Assam, PIN – 786191.

9.0 **Paying Authority:** The DGM (Fin), AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam.

You are requested to kindly acknowledge the receipt of this Detailed Order and conveyance your acceptance.

Enclosed: Annexure- Price Schedule.

Yours faithfully,

(Dinabandhu Baishya)
Dy. GM (E/M), PEM,
AGBP, NEEPCO, Bokuloni
Dist.: Dibrugarh, Assam.

NIO: Memo No. NEEPCO/AGBP/PEM/O&M-01/19-20/374-378 dtd. 30/12/2020.

1. The CGM (E/M) & HOP, AGBP, NEEPCO Ltd, Bokuloni for kind information please. This is issued as per finance concurrence vide U.O. No: NEEPCO, AGBP//F&A/523 dtd. 29/12/2020 and subsequent approvals accorded vide U.O. No: NEEPCO/HOP/1443A) dtd.30/12/2020.
2. The DGM (E/M), O/O the GM (E/M), O&AWC, AGBP, Bokuloni- for kind information please.
3. The DGM (F & A), AGBP, Bokuloni for kind information please. Photo copy of approval is enclosed. The expenditure shall be under additional capitalization in line with Order No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd. 12/09/2019.
4. The DGM (E/M), MMW, AGBP, Bokuloni for kind information please. The expenditure shall be under additional capitalization in line with Order No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd. 12/09/2019
5. The DGM (E/M), Vigilance, AGBP, Bokuloni for kind information please. Photo copy of approval is enclosed.
6. Office records file O&M-01.

30/12/2020

(Dinabandhu Baishya)
Dy. GM (E/M), PEM,
AGBP, NEEPCO, Bokuloni
Dist.: Dibrugarh, Assam.

Price eRA

Schedule of Price Schedule

Name of Manufacturer/Bidder:M/S ABB Power Products & Systems India Limited

Sl. No.	Description of item (For Supply)-I	Quantity(Unit/Set) (c)	Set/Unit Price (Rs.) (a)	Total Price (Rs.)(c x a=b)	Applicable GST(@ of all)=(b)	Freight Charges(d)	Trans. Insurance(d)	GST on FC/TI/service (e)	Grand Total (Rs.) (a1+b+c+d+e=A)
1 (i)	245 KV, 2000 Amps continuous current, 40kA short circuit breaking current, Triple pole outdoor type, SF6 circuit Breaker suitable for high speed Single phase rapid auto reclosing features for Line Circuit Breaker and Single phase rapid auto reclosing features for generator breaker (as applicable) complete with SF6 Gas, mounting structure, control cubicle, terminal connectors suitable for Zebra conductor, auxiliaries etc. as specified in NIT... complete 4(four) Sets (2sets for GTGs and 2sets for Station Transformer).	4	1,500,000	6,000,000	1,080,000	248,924		44,806	7,373,730
2.14	SF_6 Gas 20% of total gas required for 4 set CBs. The unit shall vary depending on standard capacity....21 kg/1 SF6 Gas cylinder.	1	39,356	39,356	7,084			-	46,439
	Price for Supply (A)			6,039,356	1,087,084	248,924	-	44,806	7,420,170
II	Service: Retrofitting /installation, testing & commissioning								
4	Dismantling, Retrofitting /installation, testing & commissioning of complete 4(four) Sets (2sets for GTGs and 2sets for Station Transformer) SF6 CB with accessories as stated in the NIB (slno:1 above)	4	185,298	741,192	133,415				874,607
	Price for Dismantling, Retrofitting /installation, testing &commissioning (B)			741,192	133,415				874,607
5(III)	AMC for periods of 5(five) year effective from the date of expiry of warrantee/guarantee periods of concern equipment's as stated in NIB								
5.1	AMC for 1st year	1	87,566	87,566	15,762				103,328
5.2	AMC for 2nd year	1	87,566	87,566	15,762	-			103,328
5.3	AMC for 3rd year	1	87,566	87,566	15,762				103,328
5.4	AMC for 4th year	1	87,566	87,566	15,762				103,328
5.5	AMC for 5th year	1	87,566	87,566	15,762				103,328
5.5	Total AMC Charges			437,830	78,809	-	-	-	516,639
	Grand Total Price (A+B+C)			7,218,378	1,299,308	248,924	-	44,806	8,811,416
								(Rupees Eighty Eight lakh eleven thousand four hundred and sixteen only)	8,811,416
	Note: Schedule of items shall be as per agreed terms & conditions against clarifications.								

30/12/2020

उप महा प्रबंधक (वि/यां)
Deputy General Manager (E/M)
फ्लॉट इलेक्ट्रिकल मैंटेनेंस कॉमप्लेक्स,
Flat Electrical Maintenance Complex
एनईपीसी, नीपको,बोकुलनी,
NEPCO, Bokulani

No. NEEPCO/AGBP/PEM/O&M-01/2018-19/247

Date- 19-07-2018

To,

ADDL. GENERAL MANAGER (C,S&T)/SG
BHARAT HEAVY ELECTRICALS LIMITED
SWITCHGEAR COMMERCIAL DEPARTMENT
03 ANNEXE, GROUND FLOOR
BHARAT HEAVY ELECTRICALS LIMITED,
RAMACHANDRA PURAM (R.C. PURAM)
HYDERABAD- 502 032 (TELENGANA)

Sub:- Supply of Main Valve Assembly (Drawing No.15184005331-A) for 245KV SF_6 Circuit Breaker (Type:3AV1) to AGBP, NEEPCO Ltd.

Ref:- 1. Our letter no. NEEPCO/AGBP/PEM/O&M-01/2017-18/242 dtd. 20/10/2017.
2. Your offer no. HY/SG-SP/Q. No. 2017 064 dtd. 21/10/2017.
3. Our Purchase Order No. **NEEPCO/AGBP/PEM/O&M-01/2017-18/39NBH079/323 Dtd. 16/11/2017**

Dear Sirs,

With reference to the above, we would like to intimate you that the ordered material against the Purchase Order under reference at Sl. No. 3 is presently very much urgent for us. As such, kindly expedite the delivery materials as listed below as early as possible.

Item

Sl.	Item Description	Rate (Rs)	Qty (nos.)	Price (Rs)
1.	MAIN VALVE ASSEMBLY, SAP MATL. CODE/DRAWING NO. 15184005331-A (HSN CODE: 85381090)	1,02,185.00	6	6,13,110.00
			Total	6,13,110.00

(Rupees six lakh sixty thirteen thousand one hundred ten) only

Your prompt action in this regard is highly solicited.

Thanking you,

Yours faithfully,

(Dinabandhu Baishya)
Sr. Manager (E/M), PEM
AGBP, NEEPCO Ltd.
Dist: Dibrugarh, Assam.
PIN: 786 191.
Contact No. 9435339966

1/1

rediffmail Mailbox of pem.agbp

Subject: Urgent Requirement of materials against Purchase Order for Supply of Main Valve assemly for 245KV SF6 CB to AGBP, NEEPCO LTD., Bokuloni, Dibrugarh

From: Dinabandhu Baishya <dinabandhu.baishya@rediffmail.com> on Sat, 15 Sep 2018 18:14:14

To: "KRISHNA MURTHY" <skm10527@bhel.in>, "Krishna Murthy" <skm10527@bhelhyd.co.in>, "BHEL ROD" <rodguwahati@rediffmail.com>

Cc: "pemagbp" <pem.agbp@rediffmail.com>

1 attachment(s) - Reminder_BHEL_MainValve_15.09.2018.pdf (204.36KB)

Sir,

In continuation to our earlier request, Please find the attachment of letter for ***Urgent Requirement of materials against Purchase Order for Supply of Main Valve assemly*** *for 245KV SF6 CB to AGBP, NEEPCO LTD., Bokuloni, Dibrugarh.*
You are requested to kindly acknowledge the receipt of this order and conveyance your acceptance.
Your early confirmations in this regards is highly appreciated
Regards.

Dinabandhu Baishya
Sr. Manager (E/M), PEM,
AGBP, NEEPCO LTD., Bokuloni
(Phone: 0374-2825215; Mobile: 9435339966)

No. NEEPCO/AGBP/PEM/O&M-01/2018-19/ 287. Date- 28/9/18

To,

ADDL. GENERAL MANAGER (C,S&T)/SG
BHARAT HEAVY ELECTRICALS LIMITED
SWITCHGEAR COMMERCIAL DEPARTMENT
03 ANNEXE, GROUND FLOOR
BHARAT HEAVY ELECTRICALS LIMITED,
RAMACHANDRA PURAM (R.C. PURAM)
HYDERABAD- 502 032 (TELENGANA)

E-MAIL: SBM10527@BHEL.IN, MV@BHEL.IN
RODGUWAHATI@REDIFFMAIL.COM
VTSWAMY@BHELHYD.CO.IN
FINANCE@BHELHYD.CO.IN

Sub:- Supply of Main Valve Assembly (Drawing No.15184005331-A) for 245KV SF_6 Circuit Breaker (Type:3AV1) to AGBP, NEEPCO Ltd.

Ref:-
1. Our letter no. NEEPCO/AGBP/PEM/O&M-01/2017-18/242 dtd. 20/10/2017.
2. Your offer no. HY/SG-SP/Q . No. 2017 064 dtd. 21/10/2017.
3. Our Purchase Order No. **NEEPCO/AGBP/PEM/O&M-01/2017-18/39NBH079/323 Dtd. 16/11/2017.**
4. Our letter no. NEEPCO/AGBP/PEM/O&M-01/2018-19/247 dtd. 15/09/2018.

Dear Sirs,

With reference to the above, we would like to draw your kind attention that the ordered material against the Purchase Order under reference at Sl. No. 3 is presently very much urgent for us. As such, kindly expedite the delivery materials as listed below as early as possible. On readiness of materials or part of the materials, please intimate the undersigned and a scan copy of Invoice and a dully filled up '**data requisition form**' for e-way may please be submitted for the necessary e-way bill. Please treat the matter urgently.

Item

Sl.	Item Description	Rate (Rs)	Qty (nos.)	Price (Rs)
1.	MAIN VALVE ASSEMBLY, SAP MATL. CODE/DRAWING NO. 15184005331-A (HSN CODE: 85381090)	1,02,185.00	6	6,13,110.00
			Total	6,13,110.00

(Rupees six lakh sixty thirteen thousand one hundred ten) only

Your prompt action in this regard is highly solicited.

Thanking you,

Yours faithfully,
28/09/18

(Dinabandhu Baishya)
Sr. Manager (E/M), PEM
AGBP, NEEPCO Ltd.
Dist: Dibrugarh, Assam.
PIN: 786 191.
Contact No. 9435339966

1/1

rediffmail

Subject: Urgent Requirement of Main Valve assemly for 245KV SF6 CB to AGBP, NEEPCO LTD., Bokuloni, Dibrugarh.

From: Dinabandhu Baishya<dinabandhu.baishya@rediffmail.com>

To: "mv"<mv@bhel.in>,"KRISHNA MURTHY"<skm10527@bhel.in>,"BHEL ROD"<rodguwahati@rediffmail.com>

Cc: "pemagbp"<pem.agbp@rediffmail.com>,"krishnendu basu"<kbasu@bhelpser.co.in>

1 attachment(s) - Letter_Reminder_BHEL_MainValve_28.9.2018.pdf (213.22KB)

Sir,

In continuation to our earlier request and subsequent letter dtd.15.9.2018, Please find the attachment of letter for **Urgent Requirement of materials against Purchase Order for Supply of Main Valve assemly** *for 245KV SF6 CB to AGBP, NEEPCO LTD., Bokuloni, Dibrugarh.*
You are requested to kindly acknowledge the receipt of this order and conveyance your acceptance.
Your early confirmations in this regards is highly appreciated
Regards.
Dinabandhu Baishya
Sr. Manager (E/M), PEM,
AGBP, NEEPCO LTD., Bokuloni
(Phone: 0374-2825215; Mobile: 9435339966)

E-mail:pem.agbp@rediffmail.com

No. NEEPCO/AGBP/PEM/O&M-01/2018-19/291 Dtd. 28/09/2018

To,

ADDL. GENERAL MANAGER (C,S&T)/SG
BHARAT HEAVY ELECTRICALS LIMITED
SWITCHGEAR COMMERCIAL DEPARTMENT
03 ANNEXE, GROUND FLOOR
BHARAT HEAVY ELECTRICALS LIMITED,
RAMACHANDRA PURAM (R.C. PURAM)
HYDERABAD502 032 (TELENGANA)

E-MAIL: SKM10527@BHEL.IN , MV@BHEL.IN
RODGUWAHATI@REDIFFMAIL.COM
VTSWAMY@BHELHYD.CO.IN

Sub: - Request for submitting a budgetary offer for repairing of 245 KV SF6 (Valves & Hydraulic pump) items at BHEL works.

Dear Sirs,

With reference to the above, we would like to intimate you that we are having 5 (five) nos. of Main Valve and Pilot Valve Assembly (Drawing No.15184005331-A) and 4 (four) Nos. Hydraulic pumps (Drg. No. 15182001465-C) for 245KV SF_6 Circuit Breaker (Type: 3AV1) that were found to be not working after long period of service. Now, we would like to repair these 245 KV SF6 (Valve) items and Hydraulic pump set at BHEL works. As such, you are requested to kindly submit **a budgetary offer** along with **terms and conditions and procedure of repairing these old** 245 KV SF6 (Valves & Hydraulic Pump) items at BHEL works.

In this connection, we would like to intimate you that we have placed the Purchase Orders to BHEL, Hyderabad for procurement of Main Valve Assembly and Hydraulic Pump sets well in advance vide our P.O. No. **NEEPCO/AGBP/PEM/O&M-01 / 2017-18/39NBH079/323 Dtd. 16/11/2017 & NEEPCO/ AGBP/ PEM / O&M-01/2017-18/ 39NBH127/597 Dtd. 22/03/2018** respectively. But the deliveries of the materials are not ascertained till date. Meanwhile, the stock of the above mentioned item has got exhausted, as such, during this crucial period there is no other option but to repair the old items at the earliest so that in case of failure of any SF6 Circuit breakers due to these items, same can be managed with the repaired one and the unit can restore without any delay.

Considering above, your kind corporation and response of this letter is highly solicited.

Thanking you,

Yours faithfully,

28/09/18

(Dinabandhu Baishya)
Sr. Manager (E/M), PEM
AGBP, NEEPCO Ltd.
Dist: Dibrugarh, Assam.
PIN: 786 191.
Contact No. 9435339966

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
BHARAT HEAVY ELECTRICALS LIMITED
भारी विद्युत उपकरण संयंत्र, रामचंद्रापुरम, हैदराबाद - 502032
Heavy Power Equipment Plant, Ramachandrapuram, Hyderabad-502032
स्विच गियर-वाणिज्यिक एवं सेवाएं तथा परीक्षण विभाग, फोन (40) 23185267, 23182267
Switchgear-Commercial, Services & Testing Department, Ph: (040) 23185267, 23182267
फैक्स FAX : 040-23186096, ई-मेल e-mail : skm10527@bhel.in

दिनांक Dt : 09.06.2018

सदर्भ Ref: HY/SG-SP/NEEPCO/Dibrugarh/SSN0107002/W-1284900964/17-18

सेवा में To,
The Sr. Manager(E/M), PEM
M/S N E E P CO Ltd.
A G B P P
P.O: Bokuloni Chariali - 786191
Dist: Dibrugarh(Assam)

Attn: Sri. Dinabandhu Baishya
Tel.No: 0374 - 2825216
Fax No.:0374 - 2825349
e mail: dinabandhu.baishya@ rediffmail.com
Mobile: 09435339966

विषय: Sub: - Request for cancellation of P.O for supply of spares to 245 KV SF6 CBs type 3AV1.

सदर्भ: Ref: - 1) Your P.O. No: NEEPCO/AGBP/PEM-01/2017-18/39NB/597, Dt: 22.03.2018
2) Our Sale Order No. SSN0107002/ W-1284900964

महोदय Dear Sir,

With reference to the above P.O., 6 Nos of Motor Pump Set (without Gear Box) to Material code: 15182001465-C were to be supplied to NEEPCO, AGBP, Bokuloni for use in 245 KV SF6 CB type 3AV1.

We have been in touch with our supplier for supply of Hydraulic pump (a part of the motor Pump set) for supply of the same. For a long time there has been no reply on the status of supply of the hydraulic pumps. Recently the supplier has responded & indicated that he cannot supply the pump as he has dismantled the facility for manufacture & testing of the pump & hence has regretted for supply of Pump.

He being the sole supplier established by us for supply of the pump, we are not in a position to move forward for supply of the ordered item (Motor Pump Set- without gear box to Material code 15182001465-C). Hence we request you to cancel the P.O. No. NEEPCO/AGBP/PEM-01/2017-18/39NB/597, Dt: 22.03.2018.

We are making efforts for establish a new supplier for the pump. We shall revert back to you on establishment of a new supplier.

An early reply from your end is solicited.
धन्यवाद Thanking you,

भवदीय
Yours faithfully
कृते भारत हेवी इलेक्ट्रिकल्स लिमिटेड
For BHARAT HEAVY ELECTRICALS LIMITED.

एस कृष्णामूर्ति

(एस.के. मूर्ति)
(S.K. MURTHY)
अपर महा प्रबंधक (सी, एस व टी)/एसजी
AGM (C, S&T)/SG

Enc: Copy of P.O for reference.

Fax No. 011-26186930

प्राधिकरण
Central Electricity Authority
तापीय परियोजना एवं आधुनिकीकरण प्रभाग
Thermal Project Renovation and Modernisation Division
सेवा भवन, नवम तल (उ)
Sewa Bhawan, 9th Floor, (N)
नई दिल्ली - 110 066
New Delhi - 110066

Dated: 27-08-2015

No.2/3/Misc./TPRM/CEA/2015/765

Sub: Identification of TPS units required R&M/LE during 13th Plan period

In the meeting of Ad-hoc Task Force (ATF) on RFD of Ministry of Power (MOP) convened on 01.04.2013, it has been stressed upon that Power Utilities should take up R&M / LE works on at least 20% of units which qualify for R&M and LE interventions. As per CEA guidelines, units above 15 years old qualify for Mid Life R&M works whereas units above 25 years qualify for comprehensive R&M works for Life Extension.

In view of the above you are requested to intimate the units for which R&M/LE works shall be taken up during the 13th Plan Period i.e. 2017-22 under two categories as furnished below:-

(a) Mid Life R&M works of units completing 15-25 years of plant life on 31.03.2017.
(b) Comprehensive R&M works for Life Extension of units completing 25 years of plant life on 31.03.2017

Further, you are also requested to furnish the unit wise preparedness regarding taking up the R&M/LE works viz. RLA/CA studies completed, Scope of works finalized, DPR prepared, funds tied up etc.

(भाई लाल)
मुख्य अभियंता

To,

The General Manager (R&M-Engg.), National Thermal Power Corporation Ltd., Engineering Office Complex, A-8A, Sector-24, Noida-201301 (Fax: 0120-2410015/2410106)

Director (Technical), NEEPCO Ltd., Brook Land Compound, Lower New Colony, Shilong-793003 (Fax No. 0364-2228520)

ISO: 9001 – 2015
ISO: 14001 – 2015
OHSMS: 45001 – 2018

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लिमिटेड
(मिनी रत्ना, श्रेणी १, भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Limited,
(Mini Ratna Category - I, Govt. of India Enterprise)
असम गैस बैस्ड पावर प्लांट, का. संयंत्र प्रमुख
Assam Gas Based Power Plant,
डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

No. NEEPCO/AGBP/PEM/O&M-01/2021-22/125 Dated:03/07/2021

To

M/S ABB Power Products and Systems India Limited
Power Grid High Voltage Service, Maneja Works, Maneja
Vadodara-390013, Gujarat. (GST Number: 24AARCA9513E12N)
E mail: <dave.virag@hitachi-powergrid.com>, <ajit.p.pawar@hitachi-powergrid.com>

Sub: Detailed Order for "Design, Engineering, Manufacturing, Supply, Retrofitting/erection, Testing and Commissioning of Spring-Operated mechanism 245KV SF_6 Circuit Breaker as per Breaker standard IEC 62271-100 by dismantling old existing BHEL makes 245 KV SF6 Circuit Breakers including mandatory spares and AMC.

Ref. No. 1. Our Letter Ref. No. NEEPCO/AGBP/PEM/O&M-01/2020-21/476 dtd. 03/03/2021.
2. Your email dtd. 21/04/2021.
3. Your Offer vide your Letter Ref. No. PGHV-S/NEEPCO/1 Date 06/05/2021.
4. Our e-mail dtd. 15/05/2021 requesting for clarifications.
5. Your clarifications vide no. PGHV-S/NEEPCO/2 Date 03/06/2021 and e-mail dtd. 06th & 7th June, 2021.
6. Our e-mail dtd. 15/06/2021 requesting for clarifications.
7. Your clarifications conveyed via email dtd. 18/06/2021.
8. Your email dtd.29/06/2021

Dear Sirs,

With reference to above, the Corporation is pleased to issue this Detailed Order for "Design, Manufacturing, Supply of 3 sets (Manufacturer's type: LTB245E1) as per Breaker Standard IEC 62271-100, Retrofitting, Testing and Commissioning of new 245KV SF_6 Spring Operated Mechanism Circuit Breaker" by dismantling old existing BHEL make 245KV SF6 CB at AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam (Pin:786191) as per following terms and conditions.

1. **Scope of Contract:** Design, Engineering, Manufacture, Inspection and Testing at Manufacturer's works before dispatch, Packing & Forwarding, Supply of 3 (three) sets 245 KV SF6 Spring operated mechanism CB (2 sets for L1& L2 feeders and 1 complete set as spares) as per Breaker Standard IEC 62271-100", Transportation to site, Insurance from the source of supply till commissioning, Material Handling, Loading and unloading, Storage at Site, Dismantling of old existing BHEL make 245 KV SF6 (Hydraulic operated) Circuit Breaker, Retrofitting, Testing and Commissioning of new 245 KV SF6 CB as per required technical specifications & scope of contract in line with Order No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd.12/09/2019 and subsequent agreed terms & conditions.

1.1 The scope includes (one) complete set three phase Circuit Breaker as spare including interrupter, with one master & two slave cubical (without support structure), Mandatory Spare Parts required for normal

operation and Annual maintenance Contract (AMC) for 5 years as detailed in Annexure-A (Price Schedule).

1.2 Amongst 3 sets of 245KV SF6 CB, 2 sets CB shall preferably for feeders (L1-Kath-New Moriani & L2-Kath-Moriani) and 1 complete set as spare.

1.3 The spares set of CB including operating mechanism shall be interchangeable amongst the new ABB make 245KV SF6 CB.

1.4 The Circuit breaker for feeder (L1-Kath New Moriani) shall be capable of switching ON/OFF shunt reactor (as applicable) without exceeding over voltage limits mentioned elsewhere. Circuit breakers used for reactor switching duties (as applicable) shall be tested for inductive load switching as per IEC-62271-110.

1.5 The technical specifications, Guaranteed Technical Particulars (GTP) shall be shall be governed as per Bid documents against Order No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd.12/09/2019 and subsequent agreed terms and conditions during retrofitting works based on technical suitability as already executed.

2. **Prices:** The Prices are FOR AGBP, NEEPCO, Bokuloni basis. Total Basic Price for Supply, Dismantling, Retrofitting/Installation, Testing, Commissioning, Mandatory spares and AMC shall be for an amount Rs.49,97,189.00 (Rupees forty-nine lakh ninety seven thousand one hundred eighty nine) and Total Price for same shall be Rs.64,74,883.00 (Rupees sixty-four lakh seventy-four thousand eight hundred eighty three) only inclusive of all applicable taxes (GST), duties, freight & transit insurance, levies etc. as detailed in Annexure-A (Schedule of Price). However, freight charges shall be paid at actual basis subjected to submission of documentary evidences. The prices shall remain FIRM for the entire period of Contract.

2.1 **Insurance coverage:** The supplier shall arrange for coverage of insurance policy viz transit insurance till delivery at site, storage at project site, erection, testing and commissioning of the supplied equipment's shall be covered under the scope of contract and take full responsibility during transit and comply with necessary safety measures as called for relevant Act/Regulations. The price is also inclusive of insurance coverage for manpower to be engaged during dismantling/retrofitting, testing and commissioning works at our site. Kindly ensure the insurance coverage before starting pre-commissioning activities.

2.2 **Taxes and Duties:** The above-mentioned price is inclusive of GST. However, the GST shall be applicable as per GST rule at the time of execution subject to submission of GST registration, HSN code and payment details. Kindly submit GST Invoice with all information details as per GST rule.

3.0 **Delivery Period:** Within 5-6 months from the date of approval of drawing/manufacturing clearance. However, effort shall be given to deliver in 3-4 months from the date of approval of drawing/manufacturing clearance considering necessity of works.

4.0 **Dismantling, Retrofitting, Testing and Commissioning Period:** The works shall be completed within 15 days per CB or mutually agreed conditions depending on availability of shutdown in series. However, effort shall be given to complete the retrofitting works in minimum time if NEEPCO can able to avail the shutdown in series. Prior intimation shall be given in due time and effort will be given from our end to avail the shutdown in a shortest possible time.

5.0 **Annual Maintenance Contract:** The supplier needs to complete preventive and full-service maintenance contracts of each equipment for a period of 5 (five) years from the date of date of expiry of Warrantee/Guarantee periods of the equipment's or the concern equipment (as applicable) in line with earlier order.

6.0 **Recommended Spare Parts:** The supplier has to provide the Recommended Spare Parts as detailed in Annexure-A (Price Schedule).

7.0 **Field Service:** The supplier had to ensure the appropriate technical support service consisting of factory trained Customer Engineers dedicated to the start-up, maintenance and repair of equipment. In case of breakdown of equipment's or urgency, the supplier shall be ensured to provide Technical support service within 48 hrs from the time of intimation during contract periods.

7.1 **Accommodation:** Free accommodation shall be provided (food on chargeable basis) at our Guest House to the commissioning engineer/Servicing team during commissioning & service periods.

8.0 **Contract Performance Guarantee/Security Deposit for Supply, Installation/Retrofitting, Testing and Commissioning:** In line with the Office Memorandum vide No: DPE/7(4)/2017-Fin.(Part-I), dtd.19/11/2020 GOI, Ministry of Heavy Industries & Public Enterprises, The supplier shall have to submit Contract Performance Guarantee (CPG)/Bank Guarantee in liew of Security Deposit @3% of the Contract Price/ Contract Price valid for a period of 90 days from the date of expiry of Guarantee/warranty periods as per our prescribed format as enclosed (Annexure-CPG/SD). The CPG/Security Deposit shall have to submit within a period of 30 days from the date issue of Contract Order or an amount of 3% of the contact value shall be deducted from the bill and shall be released after expiry of warrantee/guarantee periods.

9.0 **Payment Terms (For Supply):**

(i) 100% (one hundred percent) of Ex Works Price along with all applicable taxes and duties shall be paid within 30 days after receipt of materials in full and good condition at site subject to submission of the following documents to the consignee: -

(a) Contractor's detailed invoice.
(b) Detailed packing list
(c) Test certificate and / or duly approved inspection certificate, or proof of waiver of inspection / tests.
(d) Dispatch clearance
(e) Documentary evidence against payment of Taxes and Duties.
(f) Guarantee/ warranty certificate,
(g) Bank account details for e-payment.

ii) Considering the execution of works and depending on clearance for availing shutdown of Units, provision for Part payment for part delivery against each complete set of SF 6 CB shall be allowed if felt necessary by the purchaser.

9.1 **Payment Terms (For Dismantling, Erection/Retrofitting, Testing and Commissioning):**

i) 100% (one hundred percent) of the Contract sum for erection, testing and commissioning along with Price adjustment amount (if any) and 100% taxes and duties shall be paid on pro rata basis against successful completion of works/equipment.

ii) Considering the execution of works in phase manner and depending on clearance for availing shutdown of Units, provision for Part payment for part delivery against each complete set of SF 6 CB shall be allowed if felt necessary by the purchaser.

9.2 **Payment Terms (For Annual Maintenance Charge):** 100% payment along with taxes and duties shall be paid quarterly basis after successful completion of job every quarter on pro rata basis and based on agreed annual maintenance cost subject to submission of Contract Performance Guarantee (CPG)/ Bank Guarantee (BG) in liew of Security Deposit @3% of annual maintenance cost for each concern years or renewal/extension of same for succeeding years as stated above.

10.0 **Guarantee/Warranty:** The materials supplied shall be warranted / guaranteed as per manufacturer's norms or for a period of 18 months from the date of despatch or 12 months from the date of successful commission whichever is earlier against manufacturing defect/ defective workmanship. The supplier shall supply the materials to the satisfaction of the Engineer-in charge. Defective materials shall be replaced/ rectified by the supplier at free of cost immediately on intimation from this end.

11.0 **Liquidity Damage:** Time is the essence of the Contract. If the performance of the Contract is delayed due to the reason attributed to the Contractor, the Purchaser shall without prejudice to his right to recover damages for breach of the Contract: -

i) Reduce the Contract price by 1/2 % (half percent) per week or part thereof of delay in completion of time subjected to maximum of 10% of the contract price.

ii) Execute or authorize the execution of work departmentally or through any other agency without any notice to the Contractor at the risk and cost of the Contractor. The decision of the Purchaser shall be final and binding upon the Contractor. However, the above action shall be taken without cancelling the contract in respect of work not yet due to execution. Or

iii) Cancel the entire Contract on or portion thereof and if so desired, execute or authorize the execution of the work departmentally or through any other agency at the risk and cost of the Contractor. If the Contractor had defaulted in the performance of the Contract, the Purchaser may ignore the rates quoted by him for respective work even though the lowest for execution through other agency.

iv) Where action is taken under sub-clause (ii) or (iii) above to failure to complete the work, the Contractor shall be liable for any loss, which the Purchaser may sustain on that account. But the Contactor shall not be entitled to any gain on such execution and the manner and method of such execution shall be in the entire discretion of the Purchaser. It is not be necessary for the Purchaser to serve a notice of such execution of the Contractor.

12.0 **Operational & Maintenance Manual:** The supplier shall have to provide 5 (five) sets of Operation and Maintenance Manuals in binding form, data sheets for each rating of-specified Circuit Breaker along with equipment. The Manuals shall clearly include & indicate the installation methods, installation drawings, instructions a functional description of the equipment with block diagrams, safety precautions, illustrations, step by step operating procedures, and routine maintenance guidelines.

13.0 **Factory Testing:** Before shipment, the manufacturer fully and completely tests the Circuit Breaker as per standard to assure compliance with the specification.

14.0 TESTS AT FACTORY AND TEST CERTIFICATES

All Acceptance tests shall be carried out at manufacturer's works in presence of the AGBP, NEEPCO as per relevant IS & IEC. In addition to above, all routine tests are also to be carried out on the breakers as per relevant IS & IEC. The contractor shall give at least 15 (fifteen) days-advance notice intimating the actual date of inspection and details of all tests that are to be carried out from the date when the tests will be carried out.

Routine tests report of each breaker is to be submitted along with inspection offer. Acceptance test report shall be furnished in Three (3) copies to the DGM (E/M), PEM, AGBP, NEEPCO, Bokuloni, Dibrugarh – 786191.

15.0 **Dispatch clearance:** No materials shall be dispatched without inspection or his authorized representative or otherwise given dispatch clearance by the purchaser in writing to the Supplier.

16.0 **E-way Bill (Road Permit):** E-way bill (Road Permit) may please be generated by the supplier. Our GSTIN NO is '18AAACN9991J3ZP'. No any responsibility will be taken for issuance of E-way bill by the purchaser.

17.0 **Consignee:** The materials with accessories shall be delivered FOR AGBP site at the address i.e. DGM (E/M), MMW; AGBP, NEEPCO Ltd, Bokuloni, Dist: Dibrugarh, Assam, PIN – 786191.

18.0 **Paying Authority:** The DGM (Fin), AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam.

19.0 All the terms and conditions, technical specifications which are not indicated here shall be governed as per Bid documents against Order No: NEEPCO/AGBP/PEM/O&M-01/2019-20/355 dtd.12/09/2019 and subsequent agreed terms & conditions. Further, any other necessary item/protective devices/equipment and accessories whether specifically mentioned herein or not, but necessary for completeness and satisfactory performance of the CB shall be provided.

You are requested to kindly acknowledge the receipt of this Detailed Order and conveyance your acceptance.

Enclosed:

(i) Annexure- A (Price Schedule) & Forms of BG for SD/CPG).

Yours faithfully,

(Dinabandhu Baishya)
Dy. GM (E/M), PEM,
AGBP, NEEPCO, Bokuloni
Dist.: Dibrugarh, Assam.

उप महा प्रबंधक (वि/मा),
Deputy General Manager (E/M),
प्लांट इलैक्ट्रिकल मैंटेनेंस कॉमप्लेक्स,
Plant Electrical Maintenance Complex
एजीबीपी, नीपको, बोकुलनी,
AGBP, NEEPCO, Bokulani

Schedule of Price Schedule

Name of Manufacturer/Bidder:M/S ABB Power Products and Systems India Limited

Sl. No.	Description of item (For Supply)-I	Quantity(Unit/Set) (c)	Set/Unit Price (Rs.) (a)	Total Price (Rs.)(c x a=a1)	Applicable GST(@ of a1)=(b)	Freight Charges©	Tran. Insurance.(d)	GST on FC/TI/service (e)	Grand Total (Rs.) (a1+b+c+d+e=A)
1 (I)	245 KV, 2000 Amps. continuous current, 40kA for 3sec short circuit Breaking current, Triple pole outdoor type, SF6 circuit Breaker suitable for high speed Single phase rapid auto reclosing features complete with SF6 Gas, mounting structure, control cubicle, terminal connectors suitable for Zebra conductor, auxiliaries etc. as specified in NIB.....complete (2) Sets	2	15,00,000	30,00,000	5,40,000	4,90,000		88,200	41,18,200
2	SF_6 Gas 20% of total gas required for 2 CBs. The unit shall vary depending on standard capacity.....09 kg/1 SF6 Gas cylinder.	1	19,678	19,678	3,542	-			23,220
2.1	Complete Three Phase CB (STC: 40KA) pole column (support insulator stack) and interrupter with one Master & two Slave cubicles but without support structure , without platform and without any accessories	1	11,68,000	11,68,000	2,10,240			-	13,78,240
2.2	Recommended Spares Complete set consisting 12 nos tripping coil, Closing closing coil 6 nos, spring charging motor 3 nos and density monitor 1 no etc.	1	2,20,000	2,20,000	39,600				2,59,600
	Price for Supply (A)			**44,07,678**	**7,93,382**	**4,90,000**	-	**88,200**	**57,79,260**
II	**Service: Retrofitting /Installation, testing & commissioning**								
4	Dismantling, Retrofitting /Installation, testing &commissioning of 2 no SF6 CB with accessories as stated in the NIB (sl.no:1 above)	2	1,85,298	3,70,596	66,707				4,37,303
	Price for Dismantling, Retrofitting /Installation, testing &commissioning (B)			**3,70,596**	**66,707**				**4,37,303**
5(III)	AMC for periods of 5(five) years effective from the date of expiry of warrantee/guarantee periods or concern equipment's as stated in NIB								
5.1	AMC for 1st year	1	43,783	43,783	7,881				51,664
5.2	AMC for 2nd year	1	43,783	43,783	7,881				51,664
5.3	AMC for 3rd year	1	43,783	43,783	7,881				51,664
5.4	AMC for 4th year	1	43,783	43,783	7,881				51,664
5.5	AMC for 5th year	1	43,783	43,783	7,881				51,664
5.5	**Total AMC Charges (C)**			**2,18,915**	**39,405**	-	-	-	**2,58,320**
	Grand Total Price (A+B+C)			**49,97,189**	**8,99,494**	**4,90,000**	-	**88,200**	**64,74,883**

~ 730 ~

उप महा प्रबंधक (वि/र/म)
Deputy General Manager (E/M)
विद्युत अनुरक्षण संयंत्र, राउरकेला
Electrical Maintenance Complex
राउरकेला स्टील प्लांट, राउरकेला
SAIL-RSP(O) Rourkela

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बोकुलोनी, जिला- डिब्रूगढ़, असम, पिन - 786 171

North Eastern Electric Power Corporation Ltd.
(A Govt.of India Enterprise)
www.neepco.gov.in
ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 171

NO: NEEPCO/AGBP/C&I/T-55/2020-21/90NBC110/ Dtd. 19/11/2020

To

M/S ABB India Ltd,
Sy. No:88/3 to 88/6, Kasaba Hobli,
Basavanahalli Village, Nelamanager,
Bangalore-562 123, Ph: (080)22948929/ 8975, Fax : (080)2294 6600

Kind Att:- Mr.S. Bhattacharya, e-mail: subhankar.bhattacharya@in.abb.com

SUB: Up- gradation of existing AVR to DAVR (Digital AVR) for brushless excitation system in BHEL-make Gas Turbine Generators (GT# 5 & 6) by Engineering, Design, Supply, Testing, Installation and Commissioning at (AGBP), NEEPCO LTD.

Our Ref: 1) NEEPCO/AGBP/C&I/2020-21/69 Dtd 11/8/2020.
2) NEEPCO/AGBP/C&I/T-55/2020-21/ Dtd. 10/9/2020
1) Your offer ref: IAENEXCRE20SB0829/R0 dtd. 14th Aug, 2020.

Dear Sir,

In reference to above the Corporation is pleased to place this Order for the supply and services of DAVR (Digital AVR), ABB-make for brushless excitation system of Gas Turbine Generators# 5&6 at AGBP, NEEPCO Ltd.

Terms & conditions:

1. **Scope of contract**: The scope of supply includes supply of 02(two) no DAVRs (Digital AVR) for brushless excitation system for BHEL-make Gas Turbine Generators (GTG) as per below Price Schedule. The UNITROL®6080, DAVR shall have characteristics and materials as per, Annexure: I.
   Scope of services includes installation, commissioning and testing of 02(two) no DAVRs at AGBP, NEEPCO Ltd.
2. **Price Basis**:- Your total price of supply & services are as below.

Sl	Item description	Unit Price (Rs)	Qty	Amt in (Rs)
A	Supply of DVR for GTG#5 & 6 as per Annexture:A.	16,45,000/-	02-sets	32,90,000.00
Rs. 32,90,000.00/-(Rupees Thirty-Two lakh and Ninety thousand) only including P&F but excluding Freight & insurance.				
B	Installation, commissioning and testing charges of DAVR	1,00,000/-	02-set	2,00,000.00
Rs. 2,00,000/-(Rupees Two lakh) only.				

3. Payment terms:-

a) 90% payment with 100% taxes and duties shall be paid after receipt of materials at site within 15 days. Balance 10% payment shall be made after successful commissioning or within 3 months from the date of supply, whichever is earlier.

b) Payment for services along with taxes shall be made after completion of job & on submission of service invoices, Completion certificate etc.

4. Taxes: GST @ 18% and other taxes as applicable shall be paid extra by NEEPCO at actual. Our GST No: 18AAACN9991J3ZP. GST No of ABB: 29AAACA3834AB1ZA.
5. Shipment, Freight & Insurance: Your supply Price is inclusive of packing & forwarding, but excluding of Freight & Insurance. Freight charges shall be paid by NEEPCO at actual subject to submission of GST invoice of transporter.
6. Delivery Period: The material shall be delivered within 3(three) months from the date of techno-commercially accepted P.O. and approval of final drawing. The date of dispatch of the materials from the supplier's works will be considered as date of delivery. However, you are requested to complete the Supply & Services within 15th February'2020 for final completion of the work within this fiscal year.
7. Mode of Transportation: You are responsible for the safe transportation of the materials to AGBP, NEEPCO site on freight paid basis which shall be reimbursed at actual.
8. Services: Intimation of Site Readiness shall be conveyed and supplier shall complete the Installation, Commissioning and testing within the stipulated time.
9. Warranty: 12 months from the date of commissioning or 18 months from the date of shipment of equipment whichever is earlier.
10. Fitment: M/S ABB must ensure that materials supplied are suitably fit for Up- gradation of existing AVR at in Gas Turbine Generators# 5&6 at AGBP, NEEPCO Ltd.. In case of any mismatch, the same must be replaced by M/S ABB at free of cost.
11. LD clause: Standard LD clause is applicable and accordingly contact price shall reduce by ½ (half) percent per week because of delay in delivery of the material(s) subject to maximum of 5 (Five) percent of the contract value.
12. Force Majeure Condition: Neither party shall be liable for any loss, damage, failure or delay in performing its obligations under the contact to the extent directly or indirectly caused by or arising from an event of force majeure, which shall include but not be limited to acts of God, acts of Governmental authorities, earth quakes, strikes, fire, war, flood, epidemics, civil unrest, riots or other causes beyond its reasonable controls. The time lines shall be extended for period equal to the time lost by reason of delay plus such additional time as may be reasonably necessary to overcome the effect of the delay.

13. **Limitation of Liability :** Notwithstanding anything to the contrary contained in the order(i) neither party shall be liable to the other for any indirect or consequential losses or damages or any loss of profits , loss production , loss of revenue or loss of use ; and (ii) the maximum aggregate liability of the ABB/Contractor, for any/all claims arising out of or in connection with the order, shall in no event exceed 100% of the order price of payments received under the purchase order, whichever is lower.

14. **Exclusion Of Indirect & Consequential Losses:** Notwithstanding anything to the contrary herein, at law or otherwise, neither you nor us shall be liable for any special, indirect or consequential damages or losses, such as, but not limited to loss of revenue, loss of use, loss of production, loss of power, cost of capital, loss of savings, cost of replacement power or costs connected with interruption of operation.

15. **Arbitration**: In case of any breach of contract/disputes/differences arising under or in connection with this agreement, which cannot be settled by friendly negotiation and agreement amongst the parties, this offer is subjected to the standard arbitration clause in accordance with the provisions of the arbitration and conciliation act 1996. The venue of arbitration proceedings shall be mutually agreed place in India.

16. **Pre dispatch Inspection and Testing**: Testing of the materials as per relevant standard shall be carried at contractor's works. The tests shall be performed in presence of the Corporation's representative. For deputation of an authorized representative for inspection and to witness such tests, advance intimation prior to the tests shall be given to the Corporation. The test certificates are to be forwarded for approval of the purchaser. However witness of tests or approval of tests reports shall not absolve the supplier from its responsibility towards satisfactory fulfillment of contractual obligation.

17. **Consignee**:- The DGM (E/M), MMW, Ph-(0374) 2825411.

18. **Delivery destination**: Assam Gas Based Power Plant (AGBP), NEEPCO Ltd, Bokuloni, District: Dibrugarh (ASSAM), PIN: 786 191.

Kindly convey your acceptance of this P.O.

Thanking you.

Yours truly,

DGM (E/M), C&I Division
AGBP, NEEPCO Ltd, Bokuloni,
Dibrugarh, Assam.

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बोकुलोनी, जिला- डिब्रूगढ़,असम, पिन - ७८६ १०१

North Eastern Electric Power Corporation Ltd.
(A Govt.of India Enterprise)
www.neepco.gov.in
ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 101
Ph 0374-2803270 EPABX 2803270/2803423/2803480 Fax No 0374-2803271

Memo No: NEEPCO/AGBP/C&I/T-55/2020-21/ 162-166 Dtd. 19/11/2020.

1) The HOP, AGBP, NEEPCO Ltd for favour of kind information pl. This has your kind approval under U.O. No: HOP/1112 dtd 05/11/2020.
2) The **DGM** (E/M), MMW, AGBP, NEEPCO Ltd for necessary action please
3) The **DGM** (Fin), AGBP, NEEPCO Ltd for necessary action please.
4) The **DGM (E/M)**, Vigilance, AGBP, NEEPCO Ltd for information please.
5) **T-55**/Guard file.

DGM (E/M), C&I Division
AGBP, NEEPCO Ltd.

Annexture-1

Ref: NEEPCO/AGBP/C&I/T-55/2020-21/90NBC110/ **Dtd. 19/11/2020**

Schedule of Items & Prices

S/N	Item description	Unit Price in Rs.	Qty	Total Amt in Rs
1	Supply of DAVR, UNITROL®6080	16,45,000/-	02 (two) sets	32,90,000.00

1) Supply Of DAVR, UNITROL®6080 Includes

1.1) CONTROL ELECTRONICS

A) CONTROL CHANNEL INCLUDES:

O CONTROL COMMUNICATION MEASUREMENT BOARD

O POWER INTERFACE BOARD

O 3-PHASE (6-PULS) THYRISTOR CONVERTER WITH REQUIRED HEAT SINKS AND COOLING FAN(S)

SERVING FOR ALL REQUIRED REGULATION AND CONTROL FUNCTIONS WITH FOLLOWING FEATURES:

▯ BASIC REGULATOR FUNCTIONS

▯ SIGNAL ACQUISITION OF:

O SINGLE OR 3-PHASE MACHINE TERMINAL VOLTAGE AND CURRENT (U, I)

O SINGLE-PHASE MV-BUS TERMINAL VOLTAGE AND/OR CURRENT (U_B, I_B)

O THYRISTOR CONVERTER INPUT VOLTAGE (U_{SYN})

O THYRISTOR CONVERTER OUTPUT VOLTAGE (U_E)

O THYRISTOR CONVERTER CURRENT (I_E) FROM CT'S AT INCOMING LINES

▯ AUTOMATIC VOLTAGE REGULATION TYPE: LEAD, LAG TYPE ST1A ACC. TO IEEE STD 421.5-2005

▯ Q AND/OR P DROOP/COMPENSATION (ACTIVE/REACTIVE POWER INFLUENCE): ABSOLUTE Q AND P INFLUENCE INDIVIDUAL ADJUSTABLE

▯ AVR OE LIMITERS: AS PER YOUR REFERENCE BID.

O 2 Stage Field Current Limiter (Ceiling- And Delayed Thermal Current Limiting) Delay Selectable: Fixed Time Or Over Current Dependent, Inverse, Very Inverse, Extremely Inverse (ANSI, IEC) -

O 2 Stator Current Limiters, One For Over-Excited And One For Under-Excited Area. During Delay Time No Limiting Function.-

*Delay Selectable: Fixed Time Or Over Current Dependent, Inverse, Very Inverse, Extremely Inverse (ANSI, IEC), Released Only If Machine Is ON-LINE-

* V/Hz Limiter Delay Selectable: Fixed Time Or Over Current Dependent, Inverse, Very Inverse, Extremely Inverse (ANSI, IEC)

* Q(P) U2 Based Under Excitation Liiter.

	*Manual Control(Field Current Regulator FCR) As Per Your Reference Bid * Manual Limiters: As Per Your Reference Bid. * Operation Control: 1) Controlling All Auxiliaries Of The Excitation System, 2) Sequence Control Of Whole Excitation System As Per Your Reference Bid. *Monitoring And Protection Functions: 1) Machine And Bus PT/CT Monitoring, 2) Machine Armature Monitoring, 3) Machine Rotot And Rotor Excitation Monitoring, 4) Self-Monitoring (Protection) Etc As Per Your Reference Bid. 1.2) Power Converter (Channel Hardware): 5 Different Converter Frames D1...D5 Cover The Range From 20 To 2000A Dc For AVR And SES Systems. 1.3) Human Machine Interface (HMI): Service Control Panel (SCP) Is Used For Local Operation Of The Excitation System, Display Of Actual Values, Parameter Settings, Event And Fault Recorder. 1.4) Interface Unit: Combined Input And Output For Interface Digital And Analogue Control Signals Of The Plant Including 12 Digital Input 24/48V, 18 Relay Output, 3 Analogue Input, 3 Analogue Output,3 PT100 Or 2 PTC I/Ps For Transformer Temperature, Ethernet Interface, Serial Link For Insulation Monitor(RS-485). 1.5) Auxiliary Power Supply: Power Supply Schemes Includes Input Coupling Unit And Power Supply Units. 1.6) Field BRK, Suppression & Field Voltage Protection: This Includes 1-DC Brk, 2-Pole (-Q02) Type, 45 A, 1-Linear Discharge Resistor (-R02). 1.7) Additional Hardware: Shunt A/75 Mv (-R06) 1.8) Excitation Transformer (Standby Source Of PMG): I) Type: Dry Type Cast Resin Ii) Rated Apparent Power: 10 Kvah Iii) Rated Primary Voltage : 415 V Iv) No-Load Secondary Voltage: Bidder To Propose To Meet The Specification, V) Rated Frequency : 50 Hz, Vi) No Of Phases : 3 Phase

Ref. No. NEEPCO/AGBPS/GT & AUX/2021-22/W-38/ 280 dated 17.02.2022.

To

M/s. Garuda Power Pvt. Ltd.
Gillapukhuri Road, Bordoloi Nagar,
Tinsukia -786125.

Sub: NEEPCO/AGBPS- order for service required for replacement of Cummins make Starting Diesel Engine, Model KTA-1150C of BHEL supplied Gas Turbine Unit # 5.

Ref: (i) Your Quotation No 04000000222195 dated 27.07.2021
(ii) Our letter No. NEEPCO/AGBP/GT & Aux/W-38/2021-22/64 dated 30.07.2021.
(iii) Your e-mail dated 10.08.2021.
(iv) Our E-mail dated 10.02.2022.
(v) Your e-mail dated 11.02.2022.

Sir,

With reference to the above, North Eastern Electric Power Corporation Ltd. (NEEPCO) is pleased to issue this order with you for providing service for replacement of Cummins make Starting Diesel Engine, Model KTA-1150C of BHEL supplied Gas Turbine Unit # 5 at Assam Gas Based Power Station, Bokuloni as per the following terms and conditions:

1.0 Scope of Services:

Garuda Power Pvt. Ltd. shall provide one Service Engineer and one Service Technician carrying out Top Overhauling of Cummins make Starting Diesel Engine, Model KTA - 1150C of BHEL supplied Gas Turbine Unit # 5.

The work involved shall include but not limited to the following:

1.1 Replacement of Starting Diesel Engine
1.2 Fitting of accessories
1.3 Maintenance work.
1.4 Testing and.
1.5 Commissioning.
1.6 Overall inspection of Engine:
1.7 Start up and checking of the Engine.

In case any work beyond those specifically mentioned above is / are found essential for completion of the replacement, the same shall be deemed to have been included in the scope with no additional charge to NEEPCO. The job shall be treated as completed after the Engine is run to Full Speed on Load condition successfully.

2.0 Prices:

An amount of ₹ 50,000.00 (Rupees Fifty Thousand) only shall be paid for the replacement of Cummins make Starting Diesel Engine, Model KTA - 1150C of BHEL supplied Gas Turbine Unit # 5.

The above rate is firm and exclusive of GST which shall be paid extra as per Govt. Directives. At present the GST is @ 18.00 %.

3.0 Terms of Payment:

100% payment shall be paid within 10 (ten) days on receipt of invoices in triplicate along with Annexure-I and pre- receipted form duly signed by you on Revenue stamp for receipt of payment in electronic mode

after completion of work/service satisfactorily. The paying authority will be GM (F), AGBPS, NEEPCO Ltd., Bokuloni, Assam.

4.0 Schedule:

Garuda Power Pvt. Ltd. shall depute one Service Engineer and one service Technician on confirmation from AGBP site. You are expected to complete the work mentioned in scope of work within 15 days.

5.0 NEEPCO's Obligation & Inputs:

5.1 NEEPCO will provide designated Officers for necessary co-ordination between Garuda Power Pvt. Ltd. and NEEPCO and supervise the entire work.

5.2 NEEPCO shall provide necessary operators and supervisors for shut down and startup operations

5.3 NEEPCO shall provide necessary Skilled, Semi skilled and Un skilled workers as per requirement.

5.4 Necessary spares and materials as may be required will be provided by NEEPCO.

5.5 Accommodation facilities for Service Engineer and Service Technician of Garuda Power Pvt. Ltd. after arrival at site will be provided by NEEPCO free of cost, however food will be provided on chargeable basis.

6.0 Warrantee:

Garuda Power Pvt. Ltd. Shall extend warrantee of 12 (Twelve) months from the date of completion of service.

Kindly acknowledge receipt of this order and convey your acceptance.

Thanking you,

Yours faithfully,

17/02/22

DGM (M)
GT & Aux. Division
AGBPS, NEEPCO Ltd.

N.I.O
Memo No. NEEPCO/AGBPS/GT & AUX/2021-22/W-38/281-84 dated 17.02.2022.

Copy to.

1. The CGM (E) & HOP, AGBPS, NEEPCO Ltd., Bokuloni for favour of information please. The order is placed based on the approval conveyed vide FLM dated 17.02.2022
2. The GM (E), O/o the HOP, AGBPS, NEEPCO, Bokuloni for favour of information please.
3. The GM (I&A), AGBPS, NEEPCO, Bokuloni for favour of information. Copy of approval is enclosed herewith for reference.
4. The DGM (E), Vigilance wing, AGBPS, Bokuloni for information.

Yours faithfully,

17/02/22

DGM(M)
GT & Aux. Divn.,AGBPS.

Ref. No. NEEPCO/AGBP/GT & AUX./W-32/2021-22/ 77 dated 02.08.2021

To,
M/s. BHEL-GE Gas Turbine Services Pvt. Ltd.
Gumidelli Towers, 6th Floor, 1-10-39-44,
BegumpetAirport Road,Begumpet
Hyderabad-500016, Telangana

kind attn. : Mr. Kaushik Roy, Regional Sales Manager (Southern Region).

Sub: NEEPCO-AGBP- Order for providing Technical Advisory services from BGGTS for replacement of Starting Diesel Engine of BHEL supplied Frame VIB Gas Turbine Unit # 5.

Ref: (i) Our letter No. NEEPCO/AGBP/GT & AUX./W-32/2021-2/32 dated 04.06.2021.
(ii) Your offer No. QSE21/NEEPCO-AGBP/PER DIEM (Mech) dated 18.06.2021.
(iii) Our letter No. NEEPCO/AGBP/GT& Aux./W-32/2021-22/40 dated 22.06.2021.
(iv) Your letter No. QSE21/NEEPCO-AGBP/PER DIEM (Mech) dated 27.06.2021.

Dear Sir,

With reference to the subject mentioned above and letter under references, the Corporation is pleased to place this order for the TA Service for replacement of Starting Diesel Engine of BHEL supplied Frame VIB Gas Turbine Unit # 5 of AGBP, NEEPCO LTD on per Diem basis as per following terms and conditions.

A.WORK SCOPE OF BGGTS:

You will depute Technical Advisers for replacement of Starting Diesel Engine of BHEL supplied Frame VIB Gas Turbine Unit # 5 with the following work scope:

1. Taking initial reading before dismantling of Starting Diesel Engine of Gas Turbine Unit # 5.
2. Dismantling of Starting Diesel Engine
3. Installation of new Starting Diesel Engine.
4. Alignment after installation of new Starting Diesel Engine.

B.SERVICE CHARGE:

Service Rate Schedule for Trouble Shooting (BGGTS TA)

Sl. No.	Description	Price (₹)	Remark
1	Field Services Charges for 1(One) no. BGGTS TA	72,000.00 (Rupees Seventy Two Thousand) only per day	Normal days for eight hours duty

2	Field Services Charge beyond eight hours duty on normal working days	13,500.00 (Rupees Thirteen Thousand Five Hundred) only per Hour	Overtime on norma working days (1.5 times of normal rat
3	Field Services Charge on Sunday & National Holidays	18,000.00 (Rupees Twelve Thousand Five Hundred) only per Hour	Overtime on Sunda & National Holiday: 2 times of normal rate)

D. OTHER TERMS & CONDITIONS:

1. **Payment:** 100% payment with applicable charges & reimbursement shall be released within 15 days fr the date of submission of invoices along with the time sheet signed by site engineer.
2. **Taxes:** GST @ 18.0% shall be paid extra. SAC is 998331.
3. **Travel Charge:** To & fro travel charges by Economy class Air and other incidental charges like Taxi & Exc Baggage Charge shall be reimbursed by NEEPCO at actual on submission of documentary evidences. Tra charges would be from the originating station to the next destination of the Technical Advisors.
4. **Local Conveyance:** local conveyance along with pick up from nearest airport of your TA and drop shall arranged by NEEPCO.
5. **Accommodation:** Accommodation for the Technical Advisor of BGGTS shall be provided by NEEPCO free cost.
6. **Schedule of deployment:** The date of deployment of TA will be intimated to you after finalization of date replacement of starting Diesel Engine of Gas Turbine Unit # 5.

Kindly acknowledge the receipt of order.

Thanking you.

Yours faithfully,

DGM (E/M),
GT & Aux. Div.
AGBP,NEEPCO Ltd

Memo No. NEEPCO/AGBP/GT & AUX/W-32/2021-22/ 758 - 80 dated 02.08.2021

Copy to:

1. The CGM & H.O.P, AGBP, NEEPCO Ltd., Bokuloni, for favour of information please. The order is placed bas on the approval conveyed vide FLM dated 24.07.2021.
2. The DGM (F/M), Vigilance Wing, AGBP for information.
3. The DGM (Fin), AGBP, NEEPCO Ltd., Bokuloni, for information.

02/08/21

DGM (E/M),
GT & Aux. Div.
AGBP, NEEPCO Ltd.

NEEPCO/AGBP/GT & Aux./W-38/2021-22/ 95 dated 23.08.2021.

To
M/s. Garuda Power Pvt. Ltd.
Gillapukhuri Road, Borilloi Nagar,
Tinsukia -786125.
Fax No. 0374-2305343

Sub: AGBP, NEEPCO Ltd-purchase order for supply of Cummins make Starting Diesel Engine, Model: KTA-1150C.

Ref: (i) Your quotation No.0400000022983 dated 27.07.2021.
(ii) Our Letter No. NEEPCO/AGBP/GT&AUX/W-38/21-22/62 dated 30.07.2021.
(iii) Your e-mail dated 10.08.2021.
(iv) Our Letter No. NEEPCO/AGBP/GT&AUX/W-38/21-22/83 dated 12.08.2021.
(v) Your e-mail dated 13.08.2021.
(vi) Our e-mail dated 13.08.2021.
(vii) Your e-mail dated 17.08.2021.

Dear Sir,

North Eastern Electric Power Corporation Ltd. is pleased to place this purchase order for supply of 1 (One) No. of Cummins make Starting Diesel Engine, Model: KTA-1150C (Part No. SO31453) at the price of ₹ 49,00,906.00 (Rupees Forty Nine Lac Nine Hundred Six) only with the with the terms and conditions as given below:

Terms and conditions:

1. **Delivery:** 5 months from the date of order, however you are requested to supply the items at the earliest.
2. **Taxes and Duties:** GST @ 28.0 % shall be paid extra. HSN code is 84089090. TCS, if applicable, shall be paid extra.
3. **Payments terms:** 100% payment shall be made within 10 days after receipt of materials in full and good conditions against submission of invoice in triplicate and E-payment format as per the attached Annexure-I for release of payment in electronic mode.
4. **Inspection:** Manufacturer's inspection before shipment shall be final. All expenses of NEEPCO's inspector such as traveling & living expenses shall be borne by NEEPCO in case NEEPCO's inspector inspects the material.
5. **Gurantee/Warrantee:** 2 (Two) years from the date of delivery or 5,000 operating hours, whichever is earlier.
6. **Insurance:** Insurance during transit to cover transit risks from Pune to AGBP site shall be covered under NEEPCO's open marine Policy with National Insurance Company Limited, Ginoria Mansion, Chirwapatty Road, Tinsukia, Assam, PIN - 786125, (Fax No. 0374 – 2337191; Phone No. 0374 – 2331230). Supplier should give prior intimation in writing along with consignment note and copy of invoice to the above mentioned underwriters as well as the consignee the exact date of shipment of the materials to ensure insurance coverage against transit risks.
7. **Freight:** The material shall be dispatched on freight prepaid and full truck basis through a reputed transporter from Pune to AGBP site Bokuloni, Dibrugarh, Assam. The transportation charges shall be paid at actual on submission of documentary evidence.
8. **E-way Bill:** E-way bill may be generated at your end for dispatch of material. Our GSTN is 18AAACN9991J3ZP.

9. **LD Clause:** In case the Contractor fails to deliver the materials within contractual delivery period (or extension thereof) due to reason attributable to you, then the Corporation shall reserve the right to recover from the yours sum towards Liquidated Damage @ ½% (half percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the schedule delivery date (or extension thereof). The total recovery from you on account of this shall, however, not exceed 10 % (ten percent) of the value of the undelivered portion of supply.

   However the L.D. Clause will not be imposed if you fail to deliver the materials within the schedule delivery period due to Force Majeure conditions, which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, floods, explosion or fire not caused by your negligence, lightning, acts of God or the public enemy which is of such a nature as to delay, curtail or prevent timely action by either party."

10. **PBG clause:** The Contractor shall submit Security Deposit cum Performance Bank Guarantee @ 3 % of the order value drawn from any Indian PSU Bank within a period of 30(thirty) days from the date of issue of purchase order. The Security Deposit cum Performance Bank Guarantee shall remain valid till 90(ninety) days after expiry of Guarantee/Warranty period.
11. **Rejection of materials:** If materials are found defective at the time of receipt or found unsuitable for which these are intended, the same shall be rejected and the supplier shall replace the same at their cost up to destination.
12. **Consignee:** DGM (E/M), MMW, AGBP, NEEPCO Ltd., Bokuloni, Dibrugarh-786191.
13. **Paying Authority:** DGM (Fin), AGBP, NEEPCO Ltd., Bokuloni, Dibrugarh –786191.

We request you to acknowledge receipt of this order along with acceptance thereof.

Thanking You

Yours faithfully,

23/8/21

DGM (E/M)
GT & AUX. Divn.
AGBP, NEEPCO Ltd.

Memo No. NEEPCO/AGBP/GT & Aux./W-38/2021-22/95-901 dated 23.08.2021.

Copy to:

1. The CGM & HOP, AGBP, NEEPCO Ltd, Bokuloni for favour of information please. This order is placed as per the approval conveyed vide FLM dated 21.08.2021.
2. The DGM (E/M), Vigilance Wing, AGBP, NEEPCO Ltd., Bokuloni for information.
3. The DGM (E/M), MMW, AGBP, NEEPCO Ltd, Bokuloni for information.
4. The DGM (F), AGBP, NEEPCO Ltd, Bokuloni for information. Copy of approval is enclosed herewith for reference.

23/8/21

DGM (E/M)
GT & Aux. Divn., AGBP

NEEPCO/AGBP/GT & Aux./W-38/2021-22/1 ৩৪ dated 23.08.2021.

To
M/s. Garuda Power Pvt. Ltd.
Gillapukhuri Road, Bordoloi Nagar,
Tinsukia -786125.
Fax No. 0374-2305343

Sub: AGBP, NEEPCO Ltd-purchase order for supply of Spares for Air intake system, Cooling system and Exhaust system for new Cummins makes Starting Diesel Engine, Model: KTA-1150C.

Ref: (i) Your quotation No.0400000022990 dated 28.07.2021.
(ii) Our Letter No. NEEPCO/AGBP/GT&AUX/W-38/21-22/63 dated 30.07.2021.
(iii) Your e-mail dated 09.08.2021.
(iv) Our Letter No. NEEPCO/AGBP/GT&AUX/W-38/21-22/84 dated 13.08.2021.
(v) Your e-mail dated 13.08.2021.
(vi) Our e-mail dated 13.08.2021.
(vii) Your e-mail dated 17.08.2021.

Dear Sir,

North Eastern Electric Power Corporation Ltd. is pleased to place this purchase order for supply of Spares for Air intake system, Cooling system and Exhaust system for new Cummins makes Starting Diesel Engine, Model: KTA-1150C at the price of ₹ 5,00,000.00 (Rupees Five Lac) only with the with the terms and conditions as given below:

Terms and conditions:

1. **Delivery:** 5 months from the date of order, however you are requested to supply the items at the earliest.
2. Taxes and Duties: GST @ 28.0 % shall be paid extra. HSN code is 84089090. TCS, if applicable, shall be paid extra.
3. **Payments terms:** 100% payment shall be made within 10 days after receipt of materials in full and good conditions against submission of invoice in triplicate and E-payment format as per the attached Annexure-I for release of payment in electronic mode.
4. **Inspection:** Manufacturer's inspection before shipment shall be final. All expenses of NEEPCO's inspector such as traveling & living expenses shall be borne by NEEPCO in case NEEPCO's inspector inspects the material.
5. **Gurantee/Warrantee:** 2 (Two) years from the date of delivery or 5,000 operating hours, whichever is earlier.
6. **Insurance:** Insurance during transit to cover transit risks from Pune to AGBP site shall be covered under NEEPCO's open marine Policy with National Insurance Company Limited, Ginoria Mansion, Chirwapatty Road, Tinsukia, Assam, PIN - 786125, (Fax No. 0374 – 2337191; Phone No. 0374 – 2331230). Supplier should give prior intimation in writing along with consignment note and copy of invoice to the above mentioned underwriters as well as the consignee the exact date of shipment of the materials to ensure insurance coverage against transit risks.
7. **Freight:** The material shall be dispatched on freight prepaid basis through a reputed transporter from Pune to AGBP site Bokuloni, Dibrugarh, Assam. The transportation charges shall be paid at actual on submission of documentary evidence.
8. **E-way Bill:** E-way bill may be generated at your end for dispatch of material. Our GSTN is 18AAACN9991J3ZP.

9. **LD Clause:** In case the Contractor fails to deliver the materials within contractual delivery period (or extension thereof) due to reason attributable to you, then the Corporation shall reserve the right to recover from the yours sum towards Liquidated Damage @ 5% (half percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the schedule delivery date (or extension thereof). The total recovery from you on account of this shall, however, not exceed 10 % (ten percent) of the value of the undelivered portion of supply.

   However the L.D. Clause will not be imposed if you fail to deliver the materials within the schedule delivery period due to Force Majeure conditions, which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, floods, explosion or fire not caused by your negligence, lightning, acts of God or the public enemy which is of such a nature as to delay, curtail or prevent timely action by either party."

10. **PBG clause:** The Contractor shall submit Security Deposit cum Performance Bank Guarantee @ 3 % of the order value drawn from any Indian PSU Bank within a period of 30(thirty) days from the date of issue of purchase order. The Security Deposit cum Performance Bank Guarantee shall remain valid till 90(ninety) days after expiry of Guarantee/Warranty period.
11. **Rejection of materials:** If materials are found defective at the time of receipt or found unsuitable for which these are intended, the same shall be rejected and the supplier shall replace the same at their cost up to destination.
12. **Consignee:** DGM (E/M), MMW, AGBP, NEEPCO Ltd., Bokuloni, Dibrugarh-786191.
13. **Paying Authority:** DGM (Fin), AGBP, NEEPCO Ltd., Bokuloni, Dibrugarh–786191.

We request you to acknowledge receipt of this order along with acceptance thereof.

Thanking You

Yours faithfully,

23/08/21

DGM (E/M)
GT & AUX. Divn.
AGBP, NEEPCO Ltd.

N.I.O
Memo No. NEEPCO/AGBP/GT & Aux./W-38/2021-22/101- 04 dated 23.08.2021.

Copy to:

1. The CGM & HOP, AGBP, NEEPCO Ltd, Bokuloni for favour of information please. This order is placed as per the approval conveyed vide FLM dated 21.08.2021.
2. The DGM (E/M), Vigilance Wing, AGBP, NEEPCO Ltd., Bokuloni for information.
3. The DGM (E/M), MMW, AGBP, NEEPCO Ltd, Bokuloni for information.
4. The DGM (F), AGBP, NEEPCO Ltd, Bokuloni for information. Copy of approval is enclosed herewith for reference.

23/08/21

DGM (E/M)
GT & Aux. Divn., AGBP

BLUE STAR

PLATINUM JUBILEE

Ref: SD/CPSD/NEEPCO/21-22/10
April 20 th, 2021

Blue Star Limited
Oasis Plaza ,1 st floor
Opposite hotel Land mark
Dr. B.Baroah road
Ulubari -Kamrup
Guwahati -781007 India
Tel : +91 361246849

To,
AGBP,Neepco Ltd
Bokuloni,
Dibrugarh ,Assam- 786191

Kind Attn: Mr. J.K.Gogoi (Dy.General Manager)

Dear Sir,

Sub: Technical report for replacement of 70 water cooled reciprocating chiller by high energy efficient 80 TR water cooled screw chiller,old ductable units with new ductable with eco friendly gas , old FCU with new one & old Fans with new one

We thank you for giving us an opportunity to submit our offer for the subject project. Now, based on our site visit and inputs received from your side we are pleased to submit herewith our technical report in the following annexures:

Annexure-I	:	**Audited Report**
Annexure-II	:	**Salient features of Blue Star Water Cooled Screw Chiller, FCU , Ductable & Fan**
Annexure-III	:	**Comparison between Reciprocating Compressor Vs Screw Compressor**
Annexure-IV	:	**Technical Specification of Water Cooled Screw Chiller**

We trust you will find the same in line with your requirement. Incase, if you required any further clarification/information, please do consider our services at your disposal.

Thanking you and assuring you of our best services at your disposal.

Yours faithfully,
Blue Star Limited

Sourav Jana
Sr Engineer - CPSD

Annexure-I

AUDIT REPORT

This is refer to the health report of your existing plant for 3X70TR water cooled reciprocating chiller.
During site we have observed that due to normal wear & tear since 25 years the aforesaid machines has outlived its efficiency.Capacity of the machine is also reduced to great extend result in huge electricity cost. Moreover this type of machine used old technology and become obsoleted couple of years ago.Spare parts availability is a big concern now a days for this type of Chiller.Therefore,as per our recommendation the existing system need to be replaced by new technology energy efficient screw chiller to achieve better efficiency and huge savings in terms of power consumption.

In view of above, we recommend to retrofit your existing chiller by a new energy efficient 80TR water cooled screw chiller which will run with low energy consumption and deliver higher efficiency.This will result in a substantial power savings of minimum 15% as compare to your existing system. Moreover, the chiller can run uninterruptedly without any major failure.

In addition to that, would like to bring your kind notice that the Cooling Tower are also getting old & need to be replaced parallelly to get 100% efficiency from the new chillers.

****

Annexure-II

Salient Features of Blue Star Water Cooled Screw Chillers

❖ COMPRESSOR

- ✓ Reliable Twin Screw design
- ✓ Low noise level
- ✓ Step less capacity control mechanism
- ✓ Un-loading up to 25% capacity
- ✓ Suitable for eco-friendly R134a refrigerant

❖ WATER COOLED CONDENSER

- ✓ High efficiency Shell & Tube design
- ✓ Inner grooved type Copper tubes and super slit Aluminum fins
- ✓ ASME U stamped Heat Exchangers (Optional)

❖ EVAPORATOR

- ✓ Shell & Tube Flooded / DX Cooler
- ✓ Imported, internally enhanced Cooper tubes
- ✓ Improved heat exchanger design to ensure lesser refrigerant charge.
- ✓ Heat Exchangers manufactured in line with ASME standards
- ✓ ASME 'U' stamping on the heat exchangers (Optional)

❖ CERTIFICATION

CERTIFICATE OF AUTHORIZATION

The American Society of Mechanical Engineers

Technical Specification AHU & FCU

Horizontal Type Floor Mounted Unit

SL	EQUIPMENT	DETAILED TECHNICAL SPECIFICATIONS
1	Air Handling Unit	**DOUBLE SKINNED CASING:** Rigid Frame Work comprising of externally chamfered extruded aluminium anodised profiles with fibre glass corner joint. Double skin sandwiched panels: **Inner skin: minimum 0.6 mm plain galvanised sheet conforming to IS 277** **Outer skin: minimum 0.6 mm pre-painted galvanised sheet conforming to IS 277** For other area, AHU Panels are 25 mm thk minimum, pressure injected with polyurethane foam (PUF) having density not less than 38 KG/CUM. Fan and motor should be mounted on Al. Extruded slide rail base frame and isolated from main casing by using vibration isolators. Fan outlet inside the AHU casing should be connected by using fire and moisture resistant canvas. View port, Marine Lamp and Door Limit Switch are to be provided for monitor motor & fan status with visibility and adequate precaution. The unit shall comprise of water-proof and fire proof canvas joint and GI volume control damper at the outlet which should be factory supplied items and not site fabricated ones. **FAN:** It shall comprise of energy efficient **Double Inlet Double Width**, wheels should be statically & dynamically balanced. The scroll and impeller are to be made of GSS. The fan is to be V-Belt driven through a 3-Phase, 415±5%, 50 Hz AC, Squirrel Cage, TEFC induction, 4-Pole, IP55, Class "F" blower motor. **The fan of KRUGER/NICOTRA/COMEFRI any Imported make is preferred.** **PRE-FILTER SECTION:** Pre-Filters should be bag/box **type, filter media of synthetic non-woven type,** supported with Al. & HDPE mesh. **The minimum Pre-Filter efficiency is 90% down to 10 micron.** **COOLING COIL:** The cooling coil must be chilled water type filled up with chilled water. Free

		flow fin configuration formed by mild ripples and die formed channels for excellent heat transfer with low air side pressure drop. Mechanical expansion of copper tube with aluminium fins. **Coils shall build-up with Copper/MS headers,** self draining and vented type. The Cooling Coil would be minimum **6 Rows deep and having 12.5 mm OD minimum.**

Ducted Systems

PACKAGED DUCTED SPLIT AIR CONDITIONERS

NOTHING COMES CLOSE TO ITS COOLING, OR ITS WIDE RANGE.

SALIENT FEATURES:

- Highly efficient units
- Both air cooled and water cooled options available
- Designed to work effectively even in ambient temperatures as high as 52°C
- Eco-friendly R410A refrigerant
- Specially coated aluminium fins for both indoor and outdoor units
- Robust and reliable
- Aesthetically superior Service-friendly design
- Intelligent microprocessor controller

AXIAL FLOW FAN

Axial flow type Single skin ventilation unit with DIDW forward curved fan, three / Single phase motor and drive package for fan & canvass at unit outlet. The outlet Velocity of fan should be within 9.5 m/s

- ✓ **AHRI Certified**
- ✓ **Factory testing at AHRI certified test bed**

Annexure-III

COMPARISON BETWEEN SCREW AND RECIPROCATING COMPRESSOR

SL NO	SCREW COMPRESSOR	RECIPROCATING COMPRESSOR
1	Precise capacity control. The compressor has slide valve for Precise capacity control.	Inconsistent capacity control. The compressor has integral capacity control or solenoid coil which energizes or de-energizes accordingly the pistons in the compressor are loaded or unloaded.
2	Refrigerant is compressed due to lateral movement between male and female screw.	Refrigerant is compressed due to reciprocating movement of piston inside the cylinder.
3	Better efficiency on part load operation as the chillers have less frictional losses.	Comparatively not effective because of the higher frictional loss in the machine.
4	Due to few moving parts such as male female screws and slider valve, the compressors have minimum wear and tear.	Frictional loss and wear and tear is very high as more no of moving parts are associated with the application.
5	Runs of R134A which is a Green Refrigerant and does not pollute the atmosphere.	Runs of R22 which is in the verge of getting phased out and will not be available for running the chiller.
6	iKW/TR = 0.7 at full load(apprx)	iKW/TR = 0.90 at full load(apprx)
7	Low on power consumption	Comparatively high power consumption

8	Lower Maintenance Cost.	Higher Maintenance cost due to large nos. of moving parts.
9	Noise level relatively very lower	Noise Level is reasonably high
10	Less break down prone	Break down prone because of its large no of moving parts

****

Annexure-IV

Technical Specification of Water Cooled Screw Chiller Unit

SL.	EQUIPMENT	DETAILED TECHNICAL SPECIFICATIONS
1	**Water Cooled Screw Chilling Unit**	The water-cooled type AC plant shall comprise of Screw Compressors in the circuit. All the ac machineries/components must be mounted in independent MS structure/skid from factory. The unit should be factory assembled but not site fabricated. The integral components of AC plant like screw compressor, water-cooled condenser, shell & tube type cooler, micro-processor based controller, integral refrigerant pipe, fittings and accessories shall be mounted in the MS skid/structure. The nominal capacity of each chilling unit shall be of at least **80 TR nominal**. The Screw Chilling unit shall be pre-wired, fully charged and run tested at the factory so they take less time to install and start-up at site. The Screw Chilling unit should be designed to operate at high ambient temperature and are designed to deliver better efficiencies even at high condenser water temperature and moderate water quality. Chilled water inlet temperature : 54°F Chilled water outlet temperature: 45°F Fouling factor of evaporator : 0.0001 (FPS) Condenser water inlet temperature: 90°F Condenser water outlet temperature: 97.5°F Fouling Factor of Condenser: 0.00025 (FPS) Each chiller shall consist of unit mounted microprocessor based control panel. The screw chilling unit are AHRI Certified only.

नॉर्थ इस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बकुलनि, जिला- डिब्रुगढ़,आसाम, पिन - ७८६ १९१

North Eastern Electric Power Corporation Ltd.
(A Govt.of India Enterprise)
www.neepco.gov.in
ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 191
Ph: 0374-2825216, EPABX 2825207/2825423/2825208 FAX : 0374-2825349/2825217
E-mail : agbppeec@sancharnet.in, hopagbp@sancharnet.in

ISO - 9001-2000
ISO-14001-2004
OHSAS - 18001-1999

No. NEEPCO/AGBP/SFC/O&M-13/2021-22/197 Dtd. 28/06/2021

To

M/s Blue Star Ltd.,
Oasis Commercial, 1st Floor,
Dr. B Barooah Road, Ulubari,
Guwahati, Assam,
PIN: 781007
Attn: Mr. Sourav Jana

Sub: Detailed Purchase Order cum Work order for Complete Supply of materials, installation, erection & commissioning of 2 (two) numbers of 80 Tr Screw Compressors along with other accessories for Central Air Conditioning Plant of Assam Gas Based Power Plant, NEEPCO Ltd., Bokuloni, Dist: Dibrugarh, Assam

Ref:
1. Our mail & letter ref. no. NEEPCO/AGBP/SFC/O&M-13/2021-22/59 dtd.18/05/2021.
2. Your mail dtd. 19/05/2021
3. Our mail dtd. 20/05/2021
4. Your mail dtd. 20/05/2021
5. Our mail & letter ref. no. NEEPCO/AGBP/SFC/O&M-13/2021-22/65 dtd.21/05/2021.
6. Your mail dtd. 21/05/2021
7. Our mail dtd. 22/05/2021.
8. Your offer letter no. SD/CPSD/NEEPCO/21-22/02 dtd. 24/05/2021
9. Our mail dtd. 29/05/2021.
10. Your reply mail dtd. 30/05/2021
11. Our mail dtd. 10/06/2021
12. Your clarification mail and letter drd. 12/06/2021
13. Our mail dtd. 18/06/2021
14. Your letter ref. no. SD/CPSD/NEEPCO/21-22/03 dtd. 19/06/2021

Dear Sir,

With reference to above, we are pleased to place this Purchase Order cum Work Order for Complete Supply of materials (As par Annexure-I), installation, erection & commissioning of 2 (two) numbers of 80 Tr Screw Compressors along with other accessories as par Annexure-I & II for Central Air Conditioning Plant of Assam Gas Based Power Plant, NEEPCO Ltd., Bokuloni, Dist: Dibrugarh, Assam, PIN – 786 191. as per following Terms and Conditions: -

TERMS AND CONDITIONS:

1. **SCOPE OF CONTRACT:** The Scope of this contract shall include:
   A. Supply of Materials: Details Schedule of Supply of materials and price shall be as per Annexure-I enclosed herewith. The details technical data sheet of "80 Tr Screw Chiller" and "Cooling Tower" are enclosed at Annexure-III & IV
   B. Complete installation, erection & commissioning of 2 numbers of 80 Tr. Screw Chiller along with other accessories and hooking up with the existing system of the Central AC plant at AGBP as par Annexure-II enclosed herewith.
   C. Dismantling of 2 numbers of old Reciprocating Chiller and 2 numbers of old Cooling tower at Central AC plant and shifting to designated area for disposal.
2. **CONTRACT PRICES:** The price part of this contract shall have two components:
   A. Price for Supply of materials:
   - The total basic price payable for complete supply of materials, as per Annexure-I, shall be **Rs. 45,48,494.00 (Rupees Forty-Five Lakhs Forty-Eight Thousand Four Hundred and Ninety-Four)** only which shall remain FIRM till the completion of the supply.
   - GST shall be applicable as extra as per prevailing GOI norms.
   - The price mentioned above is accepted without any prejudice to the rights of this Corporation to recover / reclaim any payment made in excess.

B. Charges for Dismantling and shifting of old Equipment and Complete installation and Erection & commissioning of new equipment:

- The dismantling & shifting of old equipment and Complete Installation and Erection & commissioning charges, as per Annexure-II, shall be **Rs. 04,34,246.00 (Rupees Four Lakhs Thirty Four Thousand Two Hundred and Forty Six)** only.
- GST shall be applicable extra as per prevailing GOI norms.

3. **TAXES AND DUTIES:** GST shall be paid extra as applicable as per prevailing GOI norms.
4. **TCS:** TCS on sales of goods u/s 206C (1H) of Income Tax Act 1961 introduced vide finance Act 2020 shall be applicable as per GOI norms.
5. **PAN:** The PAN number of NEEPCO is AAACN9991J.
6. **PAYMENT:**
   A. **For Supply of Equipment and other Accessories:** The payment term for supply of materials is "100% payment shall be made on prorata basis of delivery of materials in full or part thereof in good condition within 30 days from the date of supply". The supplier shall submit the following documents to the consignee i.e. DGM (E/M), MMW:
      - Invoice in triplicate.
      - Packing List.
      - Consignment note/Lorry receipt
      - Guarantee / warranty certificate.
      - Fitment Certificate.
      - Bank details (Annexure-VII) for e-payment

   B. **For Dismantling and shifting of old Equipment and Complete installation and Erection & commissioning of new equipment:** The payment term for supply of dismantling & shifting of old equipment, Installation, erection & Commissioning of new equipment is "100% payment shall be made in full within 30 days from the date of successfully commissioning of all the units". The supplier shall submit the following documents to the Site-Engineer i.e. AM (E/M), SFC:
      - Invoice in triplicate.
      - Guarantee / warranty certificate.
      - Fitment Certificate.
      - Job Completion certificate
      - Bank details (Annexure-VII) for e-payment

7. **E-WAY BILL:** The e-way bill shall be generated by the supplier. The portal for generation of e-way bill is "https: //ewaybillgst.gov.in".
8. **COMPLETION PERIOD:** The supply of materials, Installation, erection & Commissioning shall be completed in all respect within 4-5 months from receipt of this order.
9. **LIQUIDATED DAMAGE:** In case the suppliers fail to deliver the materials within contractual delivery period (or any extension thereof) due to reasons attributable to the supplier, then the Corporation reserve the right to recover from the supplier's sum towards Liquidated Damage @ ½ % (half percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the schedule delivery date (or extension thereof). The total recovery from the supplier on account this shall, however, not exceed 10% (Ten percent) of the value of the undelivered portion of supply. However, the Liquidated Damage will not be imposed if the supplier fails to deliver the materials within the schedule delivery period due to Force Majeure conditions, which shall include without limitation, wars insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, flood, explosion or the fire not caused by the supplier's negligence, lightning, acts of God or the public enemy which is of such a nature as to delay, curtail or prevent timely action by either partly.
10. **GUARANTY / WARRANTY:** The guaranty / warranty shall be for a period of 12 months from the date of installation and successful commissioning of all the units from any defects / malfunctioning of the units or parts thereof and to be replaced free of cost or 18 months from the date of supply of all the equipment, whichever is earlier.

দিপ্তি কুমার ফুকন
28/06/2021

11. **SCOPE OF WORK DURING WARRANTY PERIOD:** The scope of work during warranty period is indicated at Annexure-V.
12. **SECURITY-CUM-PERFORMANCE BANK GUARANTEE:** The supplier shall submit "Security-cum-Performance Bank Guarantee" of 3 (three) percent of contract value within 30 (thirty) days from the date of issue of this order. The format of BG is enclosed herewith at Annexure-VI.
13. **REJECTION OF DEFECTIVE MATERIALS:** If the materials are found to be defective at the time of receipt or not fit for the equipment as intended for, the same will be rejected and the supplier's shall replace the same at their own cost with new materials.
14. **VERIFICATION OF MATERIALS:** One authorized representative from your side shall have to be deputed at the time of verification of materials at site and the material will be verifed jointly.
15. **BOARDING AND LODGING:** NEEPCO shall provide boarding and lodging for the service team at site on chargeable basis, if required.
16. **PAYING AUTHORITY:** The DGM (Finance), F&A Wing, AGBP, NEEPCO Ltd. Bokuloni, Assam.
17. **DELIVERY DESTINATION AND CONSIGNEE:** The DGM (E/M), MMW, AGBP, NEEPCO Ltd., Bokuloni, Assam.
18. **ENGINEER-IN-CHARGE:** The AM (E/M), SFC, AGBP, NEEPCO Ltd. Bokuloni, Assam.

Please acknowledge the receipt of this supply order and convey your acceptance.

Encl: Annexure-I: Schedule of material and prices cum billing break up
Annexure-II: Schedule of Service for installation, erection and commissioning
Annexure-III: Technical details of Screw Chiller
Annexure-IV: Technical details of Cooling Tower
Annexure-V: Scope of work during warranty period.
Annexure-VI: Format of PBG
Annexure-VII: Format of Bank Details.

Thanking You.

Yours' Sincerely

जितु कुमार गोयल
28/8/2021

उप महा प्रबन्धक (विद्युत यांत्रिक/ई/एम)
Dy. General Manager (E/M)
उदंशन फैसी-ीटीस कॉम्प्लेक्स
Station Facilities Complex
आ.जी.बी.पि., नीपको, बोकुलोनी
AGBP, NEEPCO LTD, Bokuloni
Dibrugarh, Assam-786191

ANNEXURE-I

ORDER REF. NO. NEEPCO/AGBP/SFC/O&M-13/2021-22/1917 **DTD. 28/06/2021**

SCHEDULE OF MATERIAL AND PRICES CUM BILLING BREAK-UP:

Sl. No.	Description of Items	Qty.	Unit / Vol	Per unit rate in INR	Total Amount in INR
a	b	d	e	f	g
1	Supply of Blue Star make AHRI certified Water-Cooled Screw Chiller having 80 TR nominal cooling capacity complete with horizontal twin screw type compressor, flooded cooler, shell & tube water cooled condenser, micro-processor based control panel and unit mounted star-delta starter, complete with all refrigerant piping and accessories including first charge of R134A refrigerant and compressor oil as required. Make: Blue Star Limited. Nominal Capacity: 80 Tr. Or more Model: LCW1-080 Details Technical Data Sheet is as par Annexure-III	2	Nos	16,89,329.00	33,78,658.00
2	Supply of FRP Induced draft Counter / Cross Flow Cooling Tower suitable for 80 Tr Water-Cooled Air-Conditioning Plant Details Technical Data Sheet is as par Annexure-IV	2	Nos	02,70,209.00	05,40,418.00
3	Supply of necessary MS C class pipe for chilled & condenser water hook up connection with existing system along-with necessary fittings (Make: Jindal / Tata)	1	Lot	02,92,548.00	02,92,548.00
4	Supply of necessary Pipe insulation of 50 mm thick TF quality EPS (16Kg/Cu mtr density) pipe section on chilled water pipe (Make: Astha / Beardsell / Thermowell)	1	Lot	23,172.00	23,172.00
5	Supply of necessary water line valves with fittings for hook up connection line (Make: Advance / Honeywell / C&R)	1	Lot	02,55,632.00	02,55,632.00
6	Supply of necessary electrical cable and accessories required for connection of new equipment with the existing panel	1	Lot	58,066.00	58,066.00
3	Total in INR				45,48,494.00
4	R/O in INR				**45,48,494.00**
Rupees Forty-Five Lakh Forty-Eight Thousand Four Hundred and Ninety-Four Only					

Dy. General Manager (F&M)
Station Facilities Complex
AGBP, NEEPCO Ltd. Bokulon, Assam

ANNEXURE-II

ORDER REF. NO. NEEPCO/AGBP/SFC/O&M-13/2021-22/ 197 **DTD. 28/06/2021**

SCHEDULE OF PRICES FOR INSTALLATION, ERECTION & COMMISSIONING CUM BILLING BREAK-UP:

Sl. No.	Description of Items	Qty.	Unit / Vol	Per unit rate in INR	Total Amount in INR
1	Erection and commissioning of Blue Star make AHRI certified Water-Cooled Screw Chiller having 80 TR nominal cooling capacity complete with horizontal twin screw type compressor, flooded cooler, shell & tube water cooled condenser, micro-processor based control panel and unit mounted star-delta starter, complete with all refrigerant piping and accessories including first charge of R134A refrigerant and compressor oil as required.	2	Nos	20,556.00	41,112.00
2	Erection and Commissioning of FRP Induced draft Counter / Cross Flow Cooling Tower suitable for 80 Tr Water-Cooled Air-Conditioning Plant.	2	Nos	20,075.00	40,150.00
3	Installation and hooking up with existing system of necessary MS C class pipe for chilled & condenser water hook up connection with existing system along-with necessary fittings	1	Lot	01,06,452.00	01,06,452.00
4	Installation & fixing of necessary Pipe insulation of 50 mm thick TF quality EPS (16Kg/Cu mtr density) pipe section on chilled water pipe	1	Lot	23,448.00	23,448.00
5	Installation and fixing of necessary water line valves with fittings for hook up connection line	1	Lot	95,632.00	95,632.00
6	Installation and fixing of necessary electrical cable and accessories required for connection of new equipment with the existing panel	1	Lot	06,754.00	06,754.00
7	Dismantling of existng system like 2 nos. of chiller units and 2 nos. of cooling tower along with accessories to be dismantled and removed from their bases and shifted to designated area.	1	Lot	01,20,698.00	01,20,698.00
3	Total in INR				04,34,246.00
4	R/O in INR				**04,34,246.00**
Rupees Four Lakh Thirty-Four Thousand Two Hundred and Forty-Six Only					

उप महा-प्रबंधक (वित्त)
Dy. General Manager (E/M)
Station Facilities Complex
AGBP NEEPCO Ltd.

ANNEXURE-III

TECHNICAL DATA SHEET FOR CHILLER:

SR. NO.	DESCRIPTION	UNITS	CHILLER MODEL
			LCW1-080
(A)	**Nominal Cooling Capacity**	TR	80.0
(B)	**Compressor**		
1	Make		Blue Star
2	Quantity	No.	1
3	Type		Semi- Hermetic Screw
5	Motor Type : Refrigerant Gas Cooled		Semi-Hermetic, 3Ph , 2 Pole Squirrel Cage Induction Motor
7	Locked Rotor Current	Amp.	730
8	Starting Current of Chiller	Amp.	243
9	Class of Motor Insulation		F
10	Operating Speed	RPM	2950
11	Oil Separation System		Integrated Oil Separator in Condenser
12	Oil Separator Type		Horizontal, Impingement Type
13	Oil charge quantity	lit.	25
(C)	**Electrical Power Supply**		360-440 V, 3 PH. , 50HZ
(D)	**Condenser**		
1	Make		Blue Star
2	Shell Diameter	mm	406.4
3	Tube type and Material		Both side Finned Copper Tubes
4	Tube OD	mm	19
5	Tube Length	mm	1800
6	No. of Pass (Water side)	Nos.	3
7	No. of Tubes	Nos.	130
8	No. of Refrigerant Circuit	Nos.	1
9	Condenser in/out Temperature	Deg F	90Deg F/ 97.5 Deg F
10	Fouling Factor	FPS	0.00025
(E)	**Flooded Cooler**		
1	Make		Blue Star
2	Shell Diameter	mm	406.4
3	Tube type and Material		Both side Finned Copper Tubes
4	Tube OD	mm	19
5	Tube Length	mm	1800
6	No. of Pass (Water side)	Nos.	3
7	No. of Tubes	Nos.	111
8	No. of Refrigerant Circuit	Nos.	1
9	Cooler in/out Temperature	Deg F	54Deg F/ 44 Deg F
10	Fouling Factor	FPS	0.0001
(F)	Refrigerant Charge Quantity	kg	91

Dy. General Manager (E/M)

SR. NO.	DESCRIPTION	UNITS	CHILLER MODEL
(F)	**Expansion Valve**		Electronic
(G)	**Overall Dimensions:**		
1	Length	mm	2242
2	Width	mm	1075
3	Height	mm	1705
(H)	**Net Weight (approx.)**		
	Operating Weight (approx.)	Kg.	2013
	PHASE		3
	VOLTAGE		380-415 V
	FREQUENCY		50 HZ

बिजेन्द्र कुमार 29/08/2024

उप महा-प्रबंधक (विद्युत)
Dy. General Manager (E/M)
[redacted] विद्युत सुविधाएं
Station Electrical Facilities Complex
ग्रा.जी.बी.पी.,नीपको लि., बोकुलकांदी
GBP, NEEPCO Ltd.Bokulkandi,

ANNEXURE-IV

TECHNICAL DATA SHEET FOR COOLING TOWER:

Sl. No.	DESCRIPTION	TECHNICAL DETAILS
1	Type	Induced draft Counter Flow/ Cross Flow
2	Make	Paharpur/ Advance/ Bell
3	No of Cell per tower	Single
	DUTY CONDITION	
4	Capacity, Usgpm	320
5	Hot water Temp, °F	97.5
6	Cold water Temp, °F	90
7	Design Wet Bulb Temp, °F	83
8	Shipping Weight (Apprx)	670 Kg
9	Operating Weight (Apprx)	1697 Kg
10	Tentative dimension (LXWXH)	1850 mm X 1850 mm X 3700 mm
	MATERIALS OF CONSTRUCTION	
11	Casing	FRP
12	Basin	FRP
13	Fill/ Nozzle	PVC/ABS/ Polypropylene
14	Bolts,Nuts , Misc hardware	MS HDG/ SS 304
15	Fan Blades	FRP/Cast Aluminium alloy/Engineering Plastics
	MOTOR DETAILS	
16	Manufacturer	Marathon/ Crompton/Havels/Hindustan motor/New India motor
17	Type	TEFC,IP-55,Weather proof
18	Current Characteristics	415V±10%/3 Ph/50±5%

जिष्णु कुमार शर्मा
28/8/2021

उप महा-प्रबंधक (वि/मा)
Dy General Manager (E/M)
स्टेशन सुविधा संकुलय
Station Facilities Complex
एन.ई.ई.पी.सी.लि. बोकाजान
NEEPCO Ltd Bokajan

ANNEXURE-V

SCOPE OF WORK DURING WARRANTY PERIOD

The scope of work shall include warranty services for the listed equipment repair, maintenance, servicing, and manufacturing defects. M/S Blue Star Limited shall supply/repair all the manufacturing defective parts required for efficient functioning of the plant during warranty period.

QUARTERLY MAINTENANCE / PREVENTIVE MAINTENANCE

1. CHILLERS

- Checking and rectification, if required for abnormal noise and vibration.
- Checking for leakage of oil and refrigerant.
- Checking the operation of oil separator, Oil Heater, Motor Protector, flow switch, slide valve mechanism, overload etc.
- Checking condition of oil filter.
- Checking of Microprocessor control panel & programming of Cards, if required.
- Checking healthy operation of safety devices.
- Checking tightness of all electrical terminations, re-crimping of lugs.
- Meggering, checking of earthing of the motors, electrical panels.
- Develop action plan for rectifying abnormalities if any observed in performance of the unit.
- To attend break down calls as and when required, investigate, locate defects, repair of manufacturing defect if any and verify defects and re-commission the chiller.

2. COOLING TOWER

- Cleaning of nozzles, strainers, sump, if required.
- Checking and rectification of Fan, gear box, bearing, noise, abnormal sound, motor Vibration etc.

GENERAL MAINTENANCE

All breakdown calls will be attended as & when required. All breakdown calls will be mandatorily logged at M/S BSL Call Centre (1800 209 1177 / 1860 266 6666) for necessary timely resolution.

EXCLUSION

1. Any replacement required because of theft, fire, sabotage or any natural calamity.
2. Any modification, shifting, alteration to suit your future requirement.
3. Any repairing of civil structure related to AC Plant.
4. Replacement of any major equipment as a whole i.e Compressor, Motor, Condenser, Evaporator, Cooler, Cooling Coil, VFD, etc.
5. Main electrical panel for the system with all components & replacement of any incoming cables for chillers.
6. Replacement of cooling tower fills, gear box, shaft, fan etc.
7. Any repairing / replacement of Air and Water distribution system i.e. ducting along with grills, all kinds of water line valves, actuators, strainers, vibration isolators, diffusers, Thermostat, Heater, water piping and insulation.
8. Any repair / replacement of parts / equipment which has not been originally supplied and Installed by us.
9. Painting of the equipment.
10. Day to Day Operation of the equipment

SPECIAL NOTE:

जिष्णु कुमार गगई
28/8/2021

उप महा-प्रबंधक (विपणि)
Dy. General Manager (E/M)
स्टेशन फैसिलिटीज कॉम्प्लेक्स
Station Facilities Complex
एन.ई.ई.पी.सी.लि. बोकारो
NEEPCO Ltd Bokaro Area

1. NEEPCO shall issue necessary Gate Pass for all maintenance activity inside the establishment upon prior official intimation received from M/S BSL .
2. NEEPCO shall provide water , electricity, soap, ladder etc for Maintenance activity inside the establishment.

जिबुल कुमार फाई
28/03/2021

उप महा-प्रबंधक (वि/अ)
Dy. General Manager (E/M)
[illegible] विद्युत केंद्रालय
Station Facilities Complex
[illegible]
[illegible] NEEPCO Ltd Bokaro [illegible]

ANNEXURE-VI

Proforma for Bank Guarantee for Contract Performance

(To be stamped in accordance with Stamp Act)

Ref: .....

Bank Guarantee No...
Date.....

To

Dear Sir,

In consideration of the North Eastern Electric Power Corporation Ltd., (hereinafter referred to as the "Purchaser" which expression shall unless repugnant to the context or meaning thereof include its successors, administrators or and assigns) having awarded to M/s..... with its Registered/Head Office at..... (Hereinafter referred to as the "Contractor" which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, or and assigns) a contract by issue of purchaser's Letter of Intent No.....dtd..... and the same having been unequivocally accepted by the Contractor resulting a "Contract" valued at Rs. ..... (Rupees.....) only for ..... and the Contractor having agreed to provide a (Scope of the Contract)

Contract Performance Guarantee for the faithful performance of the entire Contract equivalent to 10 (ten) percent of the said value of the Contract to the Purchaser.

We ..... (name & address) at .....(hereinafter referred to as the "Bank" which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors or and assigns) do hereby guarantee and undertake to pay the purchaser, on demand any and all money payable by the contractor to.....the extent of as aforesaid at any time upto.....(days/months/year) without any demur, reservation, contest, recourse or protest and/or without any reference to the Contractor. Any such demand made by the purchaser on the Bank shall be conclusive and binding notwithstanding any difference between the Purchaser and Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other Authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the purchaser and further agree that the guarantee herein contained shall continue to be enforceable till the purchaser discharges this guarantee.

The purchaser shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance of the Contract by the Contractor. The purchaser shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the contract between the purchaser and the Contractor or any other course or remedy or security available to the purchaser. The Bank shall not be released of its obligations under these presents by any exercise by the purchaser of its liberty with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the purchaser or any other indulgence shown by the purchaser or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank.

The Bank also agree that the Purchaser at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor in the first instance without proceeding

against the Contractor and notwithstanding any security or other guarantee the purchaser may have in relation to the Contractor's liabilities.

Not withstanding anything contained herein above our liability under this guarantee is restricted to Rs..... (Rupees.....) only and it will remain in force uplo and including..... And shall be extended from time to time for such periods as may be advised by the purchaser who is the beneficiary under this guarantee and in the event if the contractor fails to comply such extension within the validity period, this shall be treated as a claim by the purchaser on the Bank.
Dated this.....day of .....20.....at.....

Witness

.....
(Signature)

.....
(Name)

.....
(Official address)

.....

(Signature).....
(Bank's Rubber Stamp)
(Name)
Designation with
Bank Stamp.....
Authority as per Power
Of Attorney No.....

Dated.....

Note:
1. This sum shall be ten percent (3%) of the "Contract Price"
2. The date of validity of this Bank Guarantee will be ninety (90) days after the end of the warranty period as specified in the Contract.

In case of Bank Guarantees issued by a Foreign Bank, the same shall be confirmed by any of the Nationalized Bank in India.

ANNEXURE-VII

BANK DETAILS FORMAT

(To be submitted on the letter head of the Firm)

BANK ACCOUNT DATA FOR RTGS/NEFT PAYMENT

1.OPTION RTGS/NEFT

BENEFICIARY DETAILS

a)NAME & ADD. OF THE BENEFICIARY:

b) NAME & ADD. OF THE BANK:

c)BRANCH NAME & ADDRESS:

d)BANK A/C NO.:

e)TYPE OF A/C:

f)IFSC NO:

g)MICR NO.:

h)BRANCH CODE:

i)MOBILE NO(for payment information):

j)e-mail I.D.:

Signature of Party
(with seal)

Name:
Degn.:

Certified that the above particulars are found to be correct and matching with our records in respect of the above beneficiary.

(Sig. of Branch Manager)
Name:
Seal of Bank

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No: NEEPCO/AGBP/SFC/O&M-13/2021-22/526 Dtd. 21/12/2021

To

M/s Blue Star Ltd.,
Oasis Commercial, 1st Floor,
Dr. B Barooah Road, Ulubari,
Guwahati, Assam,
PIN: 781007
Attn: Mr. Sourav Jana

Sub: Detailed Purchase Order cum Work order for Complete Supply of materials, installation, erection & commissioning of 1 (One) number of 80 Tr Screw Compressors along with other accessories for Central Air Conditioning Plant of Assam Gas Based Power Plant, NEEPCO Ltd., Bokuloni, Dist: Dibrugarh, Assam

Ref: 1. Our last PO & WO ref. no. NEEPCO/AGBP/SFC/O&M-13/2021-22/197 dtd. 28/06/2021
2. Our mail dtd. 27/11/2021
3. Our letter ref. no. NEEPCO/AGBP/SFC/O&M-13/2021-22/454 dtd.26/11/2021.
2. Your mail dtd. 29/11/2021.
3. Your offer letter no. Ref: SD/CPSD/NEEPCO/21-22/01 dtd. 29/11/2021

Dear Sir,

With reference to above, we are pleased to place this Purchase Order cum Work Order for Complete Supply of materials (As par Annexure-I), installation, erection & commissioning of 1 (One) number of 80 Tr Screw Compressors along with other accessories as par Annexure-I & II for Central Air Conditioning Plant of Assam Gas Based Power Plant, NEEPCO Ltd., Bokuloni, Dist: Dibrugarh, Assam, PIN – 786 191. as per following Terms and Conditions: -

TERMS AND CONDITIONS:

1. **SCOPE OF CONTRACT:** The Scope of this contract shall include:
   A. Supply of Materials: Details Schedule of Supply of materials and price shall be as per Annexure-I enclosed herewith. The details technical data sheet of "80 Tr Screw Chiller" and "Cooling Tower" are enclosed at Annexure-III & IV
   B. Complete installation, erection & commissioning of 1 (One) number of 80 Tr. Screw Chiller along with other accessories and hooking up with the existing system of the Central AC plant at AGBP as par Annexure-II enclosed herewith.
   C. Dismantling of 1 number of old Reciprocating Chiller and 1 number of old Cooling tower at Central AC plant and shifting to designated area for disposal.
2. **CONTRACT PRICES:** The price part of this contract shall have two components:
   A. Price for Supply of materials:
   - The total basic price payable for complete supply of materials, as per Annexure-I, shall be **Rs. 22,74,247.00 (Rupees Twenty-Two Lakhs Seventy-Four Thousand Two Hundred and Forty-Seven)** only which shall remain FIRM till the completion of the supply.
   - GST shall be applicable as extra as per prevailing GOI norms.
   - The price mentioned above is accepted without any prejudice to the rights of this Corporation to recover / reclaim any payment made in excess.

   B. Charges for Dismantling and shifting of old Equipment and Complete installation and Erection & commissioning of new equipment:
   - The dismantling & shifting of old equipment and Complete Installation and Erection & commissioning charges, as per Annexure-II, shall be **Rs. 02,17,123.00 (Rupees Two Lakhs Seventeen Thousand One Hundred and Twenty-Three)** only.
   - GST shall be applicable extra as per prevailing GOI norms.
3. **TAXES AND DUTIES:** GST shall be paid extra as applicable as per prevailing GOI norms.
4. **TCS:** TCS on sales of goods u/s 206C (1H) of Income Tax Act 1961 introduced vide finance Act 2020 shall be applicable as per GOI norms.
5. **PAN:** The PAN number of NEEPCO is AAACN9991J.
6. **PAYMENT:**
   A. **For Supply of Equipment and other Accessories:** The payment term for supply of materials is "100% payment shall be made on prorata basis of delivery of materials in full or part thereof

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21/12/21

in good condition within 30 days from the date of supply". The supplier shall submit the following documents to the consignee i.e. DGM (E/M), MMW:

- Invoice in triplicate.
- Packing List.
- Consignment note/Lorry receipt
- Guarantee / warranty certificate.
- Fitment Certificate.
- Bank details (Annexure-VII) for e-payment

B. **For Dismantling and shifting of old Equipment and Complete installation and Erection & commissioning of new equipment:** The payment term for supply of dismantling & shifting of old equipment, Installation, erection & Commissioning of new equipment is "100% payment shall be made in full within 30 days from the date of successfully commissioning of all the units". The supplier shall submit the following documents to the Site-Engineer i.e. AM (E/M), SFC:

- Invoice in triplicate.
- Guarantee / warranty certificate.
- Fitment Certificate.
- Job Completion certificate
- Bank details (Annexure-VII) for e-payment

7. **E-WAY BILL:** The e-way bill shall be generated by the supplier. The portal for generation of e-way bill is "https: //ewaybillgst.gov.in".
8. **COMPLETION PERIOD:** The supply of materials, Installation, erection & Commissioning shall be completed in all respect within 4-5 months from receipt of this order.
9. **LIQUIDATED DAMAGE:** In case the suppliers fail to deliver the materials within contractual delivery period (or any extension thereof) due to reasons attributable to the supplier, then the Corporation reserve the right to recover from the supplier's sum towards Liquidated Damage @ ½ % (half percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the schedule delivery date (or extension thereof). The total recovery from the supplier on account this shall, however, not exceed 10% (Ten percent) of the value of the undelivered portion of supply. However, the Liquidated Damage will not be imposed if the supplier fails to deliver the materials within the schedule delivery period due to Force Majeure conditions, which shall include without limitation, wars insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, flood, explosion or the fire not caused by the supplier's negligence, lightning, acts of God or the public enemy which is of such a nature as to delay, curtail or prevent timely action by either partly.
10. **GUARANTY / WARRANTY:** The guaranty / warranty shall be for a period of 12 months from the date of installation and successful commissioning of all the units from any defects / malfunctioning of the units or parts thereof and to be replaced free of cost or 18 months from the date of supply of all the equipment, whichever is earlier.
11. **SCOPE OF WORK DURING WARRANTY PERIOD:** The scope of work during warranty period is indicated at Annexure-V.
12. **SECURITY-CUM-PERFORMANCE BANK GUARANTEE:** The supplier shall submit "Security-cum-Performance Bank Guarantee" of 3 (three) percent of contract value within 30 (thirty) days from the date of issue of this order. The format of BG is enclosed herewith at Annexure-VI.
13. **REJECTION OF DEFECTIVE MATERIALS:** If the materials are found to be defective at the time of receipt or not fit for the equipment as intended for, the same will be rejected and the supplier's shall replace the same at their own cost with new materials.
14. **VERIFICATION OF MATERIALS:** One authorized representative from your side shall have to be deputed at the time of verification of materials at site and the material will be verified jointly.
15. **BOARDING AND LODGING:** NEEPCO shall provide boarding and lodging for the service team at site on chargeable basis, if required.
16. **PAYING AUTHORITY:** The GM (Finance), F&A Wing, AGBP, NEEPCO Ltd. Bokuloni, Assam.
17. **DELIVERY DESTINATION AND CONSIGNEE:** The DGM (E/M), MMW, AGBP. NEEPCO Ltd., Bokuloni, Assam.
18. **ENGINEER-IN-CHARGE:** The AM (E/M), SFC, AGBP, NEEPCO Ltd. Bokuloni, Assam.

Please acknowledge the receipt of this supply order and convey your acceptance.

Encl: Annexure-I: Schedule of material and prices cum billing break up
Annexure-II: Schedule of Service for installation, erection and commissioning

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Annexure-III: Technical details of Screw Chiller
Annexure-IV: Technical details of Cooling Tower
Annexure-V: Scope of work during warranty period.
Annexure-VI: Format of PBG
Annexure-VII: Format of Bank Details.

Thanking You,

Yours' Sincerely

जितुन कुमार गगई
21/12/2021

(जितून कुमार गगई)
(Jitun Kumar Gogoi)
उप महा प्रबन्धक (वि./या.)
Dy. General Manager (E/M)
स्टेशन फेसीलीटिस कॉम्प्लेक्स
Station Facilities Complex
आ.जी.बी.पि., नीपको, बोकुलोनी
AGBP, NEEPCO LTD, Bokuloni
Dibrugarh, Assam-786191

NIO
Memo No. No: NEEPCO/AGBP/SFC/O&M-13/2021-22/527-31 Dtd. 21/12/2021

Copy to:

1. The Head of Project, AGBP, NEEPCO, Bokuloni, for his kind information, please. This has ref. to his approval vide FLM dtd 20/12/2021.
2. The GM (E/M), AGBP, NEEPCO, Bokuloni, for record.
3. The GM (Fin), AGBP, NEEPCO, Bokuloni. A copy of approval enclosed.
4. The DGM (E/M), MMW, AGBPP, NEEPCO, Bokuloni, for kind information.
5. The DGM (E/M), Vigilance, for information, pl.

जितुन कुमार गगई
21/12/2021.

(जितून कुमार गगई)
उप महा प्रबन्धक (वि./या.)
स्टेशन फेसीलीटिस कॉम्प्लेक्स

ANNEXURE-I

ORDER REF. NO. NEEPCO/AGBP/SFC/O&M-13/2021-22/526 **DTD. 21/12/2021**

SCHEDULE OF MATERIAL AND PRICES CUM BILLING BREAK-UP:

Sl. No.	Description of Items	Qty.	Unit / Vol	Per unit rate in INR	Total Amount in INR
a	b	d	e	f	g
1	Supply of Blue Star make AHRI certified Water-Cooled Screw Chiller having 80 TR nominal cooling capacity complete with horizontal twin screw type compressor, flooded cooler, shell & tube water cooled condenser, micro-processor based control panel and unit mounted star-delta starter, complete with all refrigerant piping and accessories including first charge of R134A refrigerant and compressor oil as required. Make: Blue Star Limited. Nominal Capacity: 80 Tr. Or more Model: LCW1-080 Details Technical Data Sheet is as par Annexure-III	1	No	16,89,329.00	16,89,329.00
2	Supply of FRP Induced draft Counter / Cross Flow Cooling Tower suitable for 80 Tr Water-Cooled Air-Conditioning Plant. Details Technical Data Sheet is as par Annexure-IV	1	No	02,70,209.00	02,70,209.00
3	Supply of necessary MS C class pipe for chilled & condenser water hook up connection with existing system along-with necessary fittings (Make: Jindal / Tata)	1	Lot	01,46,274.00	01,46,274.00
4	Supply of necessary Pipe insulation of 50 mm thick TF quality EPS (16Kg/Cu mtr density) pipe section on chilled water pipe (Make: Astha / Beardsell / Thermowell)	1	Lot	11,586.00	11,586.00
5	Supply of necessary water line valves with fittings for hook up connection line (Make: Advance / Honeywell / C&R)	1	Lot	01,27,816.00	01,27,816.00
6	Supply of necessary electrical cable and accessories required for connection of new equipment with the existing panel	1	Lot	29,033.00	29,033.00
A	Total in INR				22,74,247.00
B	R/O in INR				**22,74,247.00**
Rupees Twenty-Two Lakh Seventy-Four Thousand Two Hundred and Forty-Seven Only					

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ANNEXURE-II

ORDER REF. NO. NEEPCO/AGBP/SFC/O&M-13/2021-22/526 DTD. 21/12/2021

SCHEDULE OF PRICES FOR INSTALLATION, ERECTION & COMMISSIONING CUM BILLING BREAK-UP:

Sl. No.	Description of Items	Qty.	Unit / Vol	Per unit rate in INR	Total Amount in INR
1	Erection and commissioning of Blue Star make AHRI certified Water-Cooled Screw Chiller having 80 TR nominal cooling capacity complete with horizontal twin screw type compressor, flooded cooler, shell & tube water cooled condenser, micro-processor based control panel and unit mounted star-delta starter, complete with all refrigerant piping and accessories including first charge of R134A refrigerant and compressor oil as required.	1	No	20,556.00	20,556.00
2	Erection and Commissioning of FRP Induced draft Counter / Cross Flow Cooling Tower suitable for 80 Tr Water-Cooled Air-Conditioning Plant.	1	No	20,075.00	20,075.00
3	Installation and hooking up with existing system of necessary MS C class pipe for chilled & condenser water hook up connection with existing system along-with necessary fittings	1	Lot	53,226.00	53,226.00
4	Installation & fixing of necessary Pipe insulation of 50 mm thick TF quality EPS (16Kg/Cu mtr density) pipe section on chilled water pipe	1	Lot	11,724.00	11,724.00
5	Installation and fixing of necessary water line valves with fittings for hook up connection line	1	Lot	47,816.00	47,816.00
6	Installation and fixing of necessary electrical cable and accessories required for connection of new equipment with the existing panel	1	Lot	03,377.00	03,377.00
7	Dismantling of existing system like 1 no. of chiller unit and 1 no. of cooling tower along with accessories to be dismantled and removed from their bases and shifted to designated area.	1	Lot	60,349.00	60,349.00
A	Total in INR				02,17,123.00
B	R/O in INR				02,17,123.00
Rupees Two Lakh Seventeen Thousand One Hundred and Twenty-Three Only					

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ANNEXURE-III

TECHNICAL DATA SHEET FOR CHILLER:

SR. NO.	DESCRIPTION	UNITS	CHILLER MODEL
			LCW1-080
(A)	Nominal Cooling Capacity	TR	80.0
(B)	Compressor		
1	Make		Blue Star
2	Quantity	No.	1
3	Type		Semi- Hermetic Screw
5	Motor Type : Refrigerant Gas Cooled		Semi-Hermetic, 3PH., 2 Pole Squirrel Cage Induction Motor
7	Locked Rotor Current	Amp.	730
8	Starting Current of Chiller	Amp.	243
9	Class of Motor Insulation		F
10	Operating Speed	RPM	2950
11	Oil Separation System		Integrated Oil Separator in Condenser
12	Oil Separator Type		Horizontal, Impingement Type
13	Oil charge quantity	lit.	25
(C)	Electrical Power Supply		360-440 V, 3 PH. , 50HZ
(D)	Condenser		
1	Make		Blue Star
2	Shell Diameter	mm	406.4
3	Tube type and Material		Both side Finned Copper Tubes
4	Tube OD	mm	19
5	Tube Length	mm	1800
6	No. of Pass (Water side)	Nos.	3
7	No. of Tubes	Nos.	130
8	No. of Refrigerant Circuit	Nos.	1
9	Condenser in/out Temperature	Deg F	90Deg F/ 97.5 Deg F
10	Fouling Factor	FPS	0.00025
(E)	Flooded Cooler		
1	Make		Blue Star
2	Shell Diameter	mm	406.4
3	Tube type and Material		Both side Finned Copper Tubes
4	Tube OD	mm	19
5	Tube Length	mm	1800
6	No. of Pass (Water side)	Nos.	3
7	No. of Tubes	Nos.	111
8	No. of Refrigerant Circuit	Nos.	1
9	Cooler in/out Temperature	Deg F	54Deg F/ 44.Deg F
10	Fouling Factor	FPS	0.0001
(F)	Refrigerant Charge Quantity	kg	91
(F)	Expansion Valve		Electronic

SR. NO.	DESCRIPTION	UNITS	CHILLER MODEL
(G)	**Overall Dimensions:**		
1	Length	mm	2242
2	Width	mm	1075
3	Height	mm	1705
(H)	**Net Weight (approx.)**		
	Operating Weight (approx.)	Kg.	2013
	PHASE		3
	VOLTAGE		380-415 V
	FREQUENCY		50 HZ

ANNEXURE-IV

TECHNICAL DATA SHEET FOR COOLING TOWER:

Sl. No.	DESCRIPTION	TECHNICAL DETAILS
1	Type	Induced draft Counter Flow/ Cross Flow
2	Make	Paharpur/ Advance/ Bell
3	No of Cell per tower	Single
	DUTY CONDITION	
4	Capacity, Usgpm	320
5	Hot water Temp, °F	97.5
6	Cold water Temp, °F	90
7	Design Wet Bulb Temp, °F	83
8	Shipping Weight (Apprx)	670 Kg
9	Operating Weight (Apprx)	1697 Kg
10	Tentative dimension (LXWXH)	1850 mm X 1850 mm X 3700 mm
	MATERIALS OF CONSTRUCTION	
11	Casing	FRP
12	Basin	FRP
13	Fill/ Nozzle	PVC/ABS/ Polypropylene
14	Bolts,Nuts , Misc hardware	MS HDG/ SS 304
15	Fan Blades	FRP/Cast Aluminium alloy/Engineering Plastics
	MOTOR DETAILS	
16	Manufacturer	Marathon/ Crompton/Havels/Hindustan motor/New India motor
17	Type	TEFC,IP-55,Weather proof
18	Current Characteristics	415V±10%/3 Ph/50±5%

21/12/2021

ANNEXURE-V

SCOPE OF WORK DURING WARRANTY PERIOD

The scope of work shall include warranty services for the listed equipment repair, maintenance, servicing, and manufacturing defects. M/S Blue Star Limited shall supply/repair all the manufacturing defective parts required for efficient functioning of the plant during warranty period.

QUARTERLY MAINTENANCE / PREVENTIVE MAINTENANCE

1. CHILLERS

- Checking and rectification, if required for abnormal noise and vibration.
- Checking for leakage of oil and refrigerant.
- Checking the operation of oil separator, Oil Heater, Motor Protector, flow switch, slide valve mechanism, overload etc.
- Checking condition of oil filter.
- Checking of Microprocessor control panel & programming of Cards, if required.
- Checking healthy operation of safety devices.
- Checking tightness of all electrical terminations, re-crimping of lugs.
- Meggering, checking of earthing of the motors, electrical panels.
- Develop action plan for rectifying abnormalities if any observed in performance of the unit.
- To attend break down calls as and when required, investigate, locate defects, repair of manufacturing defect if any and verify defects and re-commission the chiller.

2. COOLING TOWER

- Cleaning of nozzles, strainers, sump, if required.
- Checking and rectification of Fan, gear box, bearing, noise, abnormal sound, motor Vibration etc.

GENERAL MAINTENANCE

All breakdown calls will be attended as & when required. All breakdown calls will be mandatorily logged at M/S BSL Call Centre (1800 209 1177 / 1860 266 6666) for necessary timely resolution.

EXCLUSION

1. Any replacement required because of theft, fire, sabotage or any natural calamity.
2. Any modification, shifting, alteration to suit your future requirement.
3. Any repairing of civil structure related to AC Plant.
4. Replacement of any major equipment as a whole i.e Compressor, Motor, Condenser, Evaporator, Cooler, Cooling Coil, VFD, etc.
5. Main electrical panel for the system with all components & replacement of any incoming cables for chillers.
6. Replacement of cooling tower fills, gear box, shaft, fan etc.
7. Any repairing / replacement of Air and Water distribution system i.e. ducting along with grills, all kinds of water line valves, actuators, strainers, vibration isolators, diffusers, Thermostat, Heater, water piping and insulation.
8. Any repair / replacement of parts / equipment which has not been originally supplied and installed by us.
9. Painting of the equipment.
10. Day to Day Operation of the equipment

SPECIAL NOTE:

1. NEEPCO shall issue necessary Gate Pass for all maintenance activity inside the establishment upon prior official intimation received from M/S BSL.
2. NEEPCO shall provide water, electricity, soap, ladder etc for Maintenance activity inside the establishment.

ANNEXURE-VI

Proforma for Bank Guarantee for Contract Performance

(To be stamped in accordance with Stamp Act)

Ref: .....

Bank Guarantee No...
Date.....

To

Dear Sir,

In consideration of the North Eastern Electric Power Corporation Ltd., (hereinafter referred to as the "Purchaser" which expression shall unless repugnant to the context or meaning thereof include its successors, administrators or and assigns) having awarded to M/s..... with its Registered/Head Office at .....(Hereinafter referred to as the "Contractor" which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, or and assigns) a contract by issue of purchaser's Letter of Intent No.....dtd..... and the same having been unequivocally accepted by the Contractor resulting a "Contract" valued at Rs. ..... (Rupees.....) only for ..... and the Contractor having agreed to provide a (Scope of the Contract)

Contract Performance Guarantee for the faithful performance of the entire Contract equivalent to 10 (ten) percent of the said value of the Contract to the Purchaser.

We ..... (name & address) at .....(hereinafter referred to as the "Bank" which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors or and assigns) do hereby guarantee and undertake to pay the purchaser, on demand any and all money payable by the contractor to.....the extent of as aforesaid at any time upto.....(days/months/year) without any demur, reservation, contest, recourse or protest and/or without any reference to the Contractor. Any such demand made by the purchaser on the Bank shall be conclusive and binding notwithstanding any difference between the Purchaser and Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other Authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the purchaser and further agree that the guarantee herein contained shall continue to be enforceable till the purchaser discharges this guarantee.

The purchaser shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance of the Contract by the Contractor. The purchaser shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the contract between the purchaser and the Contractor or any other course or remedy or security available to the purchaser. The Bank shall not be released of its obligations under these presents by any exercise by the purchaser of its liberty with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the purchaser or any other indulgence shown by the purchaser or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank.

The Bank also agree that the Purchaser at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the purchaser may have in relation to the Contractor's liabilities.

Not withstanding anything contained herein above our liability under this guarantee is restricted to Rs..... (Rupees.....) only and it will remain in force upto and including ..... And shall be extended from time to time for such periods as may be advised by the purchaser who is the beneficiary under this guarantee and in the event if the contractor fails to comply such extension within the validity period, this shall be treated as a claim by the purchaser on the Bank.

Dated this.....day of .....20.....at.....

Witness

.....
(Signature)

.....
(Name)

.....
(Official address)

.....

(Signature).....
(Bank's Rubber Stamp)
(Name)
Designation with
Bank Stamp.....
Authority as per Power
Of Attorney No.....

Dated.....

Note:

1. This sum shall be ten percent (3%) of the "Contract Price"
2. The date of validity of this Bank Guarantee will be ninety (90) days after the end of the warranty period as specified in the Contract.

In case of Bank Guarantees issued by a Foreign Bank, the same shall be confirmed by any of the Nationalized Bank in India.

NO. NEE /AGBP/U&WC/T-6/2020-21/ 277 dtd. 04/01/21

37000000109

M/S Glocon Enterprise,
Manab kalian Namghar Road,
Tinsukia, 786125.

SUB: Supply and erection of Medium Voltage Covered Conductor (MVCC) in 11KV Intake line of AGBP, NEEPCO LTD, Bokuloni. .

Ref: i) NITNo. NEEPCO/AGBP/U&WC/2020-21/02 dated 20/08/2020.
ii) Online tender ID NO. 2020_NEEPC_56077_1.
iii) Your mail dated 02/12/2020.

Dear sir(s),

With reference to the above, we are pleased to place this order for supply and erection of Medium Voltage Covered Conductor (MVCC) in 11KV Intake line of AGBP, NEEPCO LTD, Bokuloni as per the 'Items & Prices' indicated in 'ANNEXURE-I' enclosed herewith under terms and conditions stated below.

Terms & conditions:

1. **Scope**: - Supply , Installation ,Testing & commissioning of Medium Voltage Covered Conductor(MVCC) in 11 KV line as per specification mentioned in ANNEXURE-I at AGBP, NEEPCO Ltd., P. O. Bokuloni Chariali, Dist: Dibrugarh, Assam, PIN – 786 191.

2. **Prices:** - The total prices for the contract is Rs.15,39,543.00(Rupees fifteen lakh thirty nine thousand five hundred forty two) only including GST indicated in ANNEXURE-I and shall remain firm during the currency of this contract.

3. **Payment terms**: - 90 % payment shall be released on successful completion of the works and another 10% value of the contract shall be deducted from the bill in lieu of securily deposit and shall be released after completion of the guarantee/Warrantee period.

4. **Taxes & Duties**: The above price is including of GST .

5. **Guarantee/ Warrantee**: The works shall be guaranteed for a period of 12(twelve) calendar months from the date of completion of the works satisfactorily.

6. **Materials**: Materials to be used for the works shall be provided by the contractor subject to the acceptance of the site engineer .In the event of any defect found in materials or workmanship or otherwise not conformity with the requirement of the contract specification the same will be rejected and contractor shall have rectify/replace the same free of cost.

7. **Tools & Plants**: The contractor shall arrange the Tools & Plants required for execution of works.

8. **The Corporation bears no** responsibility whatsoever towards the contractor's personnel for any loss /damage caused by any accident during the works. For any such eventuality the responsibility lies solely on the contractor.

9. **The contractor shall** be solely responsible ... personnel while at work and adhere to relevant safety regulations.

10. **The Contractor shall** ensure full compliance to various laws and statutory Regulation to the extent applicable as stated below, but not limited to in force from time to time:

    a) Workman's compensation Act 1948.
    .b) Payment of wages Act.
    c) Contract labour (Regulation & Abolition) Act 1970.
    d) Provident fund and Miscellaneous Provision Act 1952.

11. **Completion Period**: The works shall be completed within 60 (sixty) days in all respect from the date of issue of this order.

12. **Liquidity Damage**: Liquidity damage would be charged 0.5% per week subject to maximum 10% if the work will be not completed within stipulated time period except under force majeure condition.

13. **Force Majeure**: Force majeure is herein defined as any cause which is beyond the control of supplier or purchaser as the case may be, which they could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affects the performance of the contract. This includes but not limited to wars, insurrection, civil disobediences, strikes, riots, epidemics, earthquakes, storms, floods, explosions or fire not caused by contractors negligence, lighting acts of God or the Public enemy which is of such a nature. Such occurrence will be notified by the either party within 15 days from the date of occurrence. The purchaser or the supplier shall not be liable for delays in performing his obligations resulting from any force majeure cause as referred above. The date of completion will, subject to hereinafter provided, be extended by a reasonable time even though such cause may occur after supplier's performance of obligation has been delayed due to other causes.

14. **Paying authority**: The DGM(F&A),AGBP, NEEPCO Ltd., Bokulani, Dibrugarh.

15. **Consignee**: (i) The DGM (E/M), MMW, AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam for item sl.no.1 to 7 and (ii) The Manager (E/M), U&WC, AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam for item No.8 of Annexure-I.

You are requested to start the work in consultation with. Manager (E/M), U&WC AGBP, NEEPCO, Bokuloni Charali and attend this office along with a Stamp Paper of Rs. 20.00 (rupees twenty) only within 7(seven) days from the issue of this work order for signing of formal agreement in NEEPCO F-2 form.

Please acknowledge receipt of this work order & convey your acceptance.

Thanking you.

Yours faithfully,

DGM (E/M), U&WC
AGBP,NEEPCO Ltd.,
Bokulani , Dibrugarh

NIO.
Memo No: AGBP/U&WC/T-6/2020-21/ 278-82 dtd. 04/01/2021

Copy forwarded for favour of kind information to:

1. The HOP, AGBP, NEEPCO Ltd., Bokulani. This is issued against the approval conveyed vide U.O.No. NEEPCO/HOP/1286 dtd 03/12/2020..
2. The DGM (E/M), AGBP , O/O the GM (E), AGBP, NEEPCO Ltd., Bokulani.
3. The DGM(E/M), MMW, AGBP, NEEPCO Ltd.,Bokuloni for kind necessary action.
4. The DGM (F&A), AGBP, NEEPCO Ltd.,Bokuloni. A Copy of the approval is enclosed herewith for reference please.
5. The DGM(E/M), Vig., AGBP, NEEPCO Ltd.,Bokuloni with a copy of the approval.

DGM(E/M)
U&WC/AGBP/NEEPCO LTD

No. NEEPCO/AGBP/HOP/2013-14/W-8(A)/ *205* Dated *28/05/2013*

To

M/S Mitsubishi Corporation,
Power Systems Export Unit,
Power and Electrical Systems Division,
3-1, Marunouchi, 2-Chome, Chiyoda-Ku,
Tokyo – 100-8086, Japan.
(Fax No. 011 – 4368 2333)

Sub: **NEEPCO/AGBP – Purchase order for procurement of new GT Rotor and Work Order for Compressor Rotor Refurbishment (CRR) & Comprehensive Rotor Inspection (CRI) of MHI make Gas Turbine # 1 to 4 (Model No. MW251B)**

Ref:
1. MHI document No. ME-100434 (R1) Dated November 2010
2. MC Offer No. MPB/XA-F-YOKAS-D-829W364 Dated 02/02/2011.
3. MC letter No. MPB/XA-F-YOKAS-D-8296462 & 829W364 Dated 25/03/2011
4. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/27 Dated 30/05/2011
5. MC letter No. MPB/XA-F-YOKAS-D-829W364-3 Dated 16/06 /2011
6. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/151 Dated 26/07/2011
7. MC letter No. MPB/XA-F-YOKAS-D-829W364-5 Dated 04/08/2011
8. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/152 Dated 12/08/2011
9. MC letter No. MPB/XA-F-YOKAS-D-829W364-6 Dated 05/09/2011
10. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/174 Dated 21/09/2011
11. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/194 Dated 19/10/2011
12. MC letter No. MPB/XA-F-YOKAS-D-829W364-7 Dated 25/10/2011
13. Our letter No. NEEPCO/AGBP/GT&AUX/W-23/2011-12/210 Dated 15/11/2011
14. MC letter No. MPB/XA-F-YOKAS-D-829W364-9 Dated 02/12/2011
15. MC letter No. MPB/XA-F-YOKAS-D-829W364-10 Dated 28/12/2011
16. Our letter No. NEEPCO/AGBP/GT&AUX/W-23/2011-12/309 Dated 30/03/2012
17. MC letter No. ENY/XA-F-YOKAS-D-829W364-11 Dated 20/04/2012
18. Our letter No. NEEPCO/AGBP/GT&AUX/W-23/2012-13/59 Dated 22/06/2012
19. MC letter No. ENY/XA-F-YOKAS-D-829W364-12 Dated 09/08/2012
20. MOM held between MC and NEEPCO Ltd., Dated 06/09/2012
21. Your letter No. ENY/XA-F-YOKAS-D-829W364-14 Dated 26/09/2012
22. Your letter No. ENY/XA-F-YOKAS-D-829W364-13 Dated 27/09/2012
23. Your letter No. ENY/XA-F-YOKAS-D-829W364-15 Dated 18/10/2012
24. Your letter No. ENY/XA-F-YOKAS-D-829W364-16 Dated 21/12/2012
25. Our letter No. NEEPCO/ED(C&M)/AGBP-01/1474 Dated 10/01/2013
26. Your letter No. ENY/XA-F-YOKAS-D-829W364-17 Dated 15/01/2013
27. Our letter No. NEEPCO/ED(O&M)/AGBP-01/1517 Dated 21/01/2013
28. Your letter No. ENY/XA-F-YOKAS-D-829W364-18 Dated 22/01/2013
29. MOM held between MC and NEEPCO Ltd., Dated 24/01/2013
30. Our letter No. NEEPCO/AGBP/HOP/2013-14/W-8(A)/49 Dated 11/04/2013
31. Your letter No. ENY/XA-F-YOKAS-D-829W364-20 Dated 11/04/2013
32. Our letter No. NEEPCO/AGBP/HOP/2011-12/W-8(A)/55 Dated 19/04/2013

33. Your letter No. ENY/XA-F-YOKAS-D-829W364-Integrity Pact Dated 25/04/2013
33. Our LOI issued vide No. NEEPCO/AGBP/HOP/2011-12/W-8(A)/65 Dated 26/04/2013
34. Your acceptance letter No. ENY/XAF-YOKAS-D-829W364-LOI Dated 09/05/2013

Dear Sirs,

With the above reference, the Corporation is pleased to place this Purchase Order for supply of new GT Rotor and Work Order for Compressor Rotor refurbishment & comprehensive Rotor Inspection of 3 units of MHI make Gas Turbine as per following terms & conditions:

Terms & Conditions:

1. **Scope:** The scope shall include
   a) Supply of new GT Rotor with compressor blades, turbine blade (assembled condition) and disc (MGA10D) for MHI make Gas Turbine Model No. MW251B as per the Schedule of Item and Prices (Annexure-I) enclosed along with this order on **FCA or FOB, Japan** basis. The new GT Rotor will be supplied after High Speed Balance Test
   b) Compressor Rotor Refurbishment and Comprehensive Rotor Inspection for 3 (three) units of MHI make Gas Turbine Model No. MW251B as per the Schedule of Item and Prices (Annexure-I) enclosed along with this order on **FCA or FOB, Japan** basis

2. **Engineering Kick off Meeting:** An Engineering Kick off Meeting shall be held at site upon acceptance of this purchase order/work order for discussion on detail scope of supply and works and firming up detail schedule of delivery, schedule of Letter of Credits and schedule of submission of BGs and other techno-commercial issues.

3. **Prices:** The total price payable to MHI/MC is **JPY 1,033,391,400** (Japanese Yen one billion thirty three million three ninety one thousand four hundred) only for supply of new Gas Turbine Rotor alongwith container, CRR & CRI of 3 Gas Turbine units at Takasago, Japan and supply of necessary spare parts for CRR & CRI (Schedule of Items & Prices at Annexure-I). The prices will remain firm till completion of supply and completion of works. The prices are including packing and forwarding but excluding freight, insurance and any tax, duty or levy that may be imposed in India, which, if applicable, shall be paid by NEEPCO at actual. Freight charges will be paid by NEEPCO at actual in Indian Rupees at the time of delivery of the rotor at Indian Port directly to the carrier against raising of bills. All taxes, charges, duties etc. leviable outside India shall be to your account only. No agency commission is payable by us.

4. **Terms of Payment:**
   100% contract price shall be made in Japanese Yen by an irrevocable, confirmed and non restricted Letter of Credit to be established for the full amount in favour of Mitsubishi Corporation, Tokyo, (ATTN: MPB/XA-F) confirmed by a first class bank in Japan or Europe or USA, acceptable to Mitsubishi Corporation and payable at sight draft to be opened in favour of Mitsubishi Corporation, Tokyo against presentation of shipping

documents and with sufficient validity to cover contractual time of shipment plus 21 days for negotiation but within validity of L/C. Any amendment charges which will be required due to the reason not attributable to seller shall be borne by buyer. Total 4(four) Nos. of LCs will be opened as detailed below:

a) 1st LC for supply of Spare GT Rotor shall be opened after submission of 1st Bank Guarantee for supply of Spare GT Rotor.
b) 2nd LC for 1st CRI shall be opened prior to 6 (six) months of dispatch of rotor from site and after submission of 2nd Bank Guarantee to facilitate manufacturing of compressor shaft in advance.
c) 3rd LC for 2nd CRI shall be opened prior to six months of dispatch of rotor from site and after submission of 3rd Bank Guarantee to facilitate manufacturing of compressor shaft in advance.
d) 4th LC for 3rd CRI shall be opened prior to six months of dispatch of rotor from site and after submission of 4th Bank Guarantee to facilitate manufacturing of compressor shaft in advance.

5. **Insurance:**
Insurance for supply of spare rotor during transit to cover transit risks from Japanese port of origin to NEEPCO's warehouse at AGBP site shall be covered under NEEPCO's **open marine policy No. 200404/21/12/4200000014 with National Insurance Company Limited, Ginoria Mansion, Chirwapatty Road, Tinsukia, Assam, PIN - 786125, (Fax No. 0374 – 2337191; Phone No. 0374 – 2331230).** NEEPCO shall settle any claim directly with the underwriters. A copy of the insurance policy shall be provided to Mitsubishi Corporation for arranging shipment upto Kolkata. Supplier should give prior intimation in writing to the above mentioned underwriters as well as the consignee the exact date of shipment of the materials to ensure insurance coverage against transit risks.

6. **Delivery Period:**
a) Shipment of spare rotor shall be made within 13 (thirteen) months from the date of receipt of order or opening of relative irrevocable Letter of Credit acceptable to Mitsubishi Corporation whichever is later.
b) Shipment of CRI Rotor shall be made within 17.5 (seventeen and half) months from the date of receipt of materials at Takasago Machinery Works, Japan.

7. **Inspection:**
The new Gas Turbine Rotor shall be high speed balance tested at manufacturer's works in accordance with relevant standard prior to shipment. Notice shall be given for deputation of NEEPCO's authorized representative(s) to witness the test at manufacturer's works. NEEPCO reserves the right to depute authorized representative to witness the test or may waive witnessing of the test. In the event of waival, manufacturer's test report prior to shipment shall be final. However, all responsibility for fulfilling the technical requirement shall lie with the contractor till expiry of warranty period, even if testing is witnessed by NEEPCO's representative. The same condition shall be applicable for CRR & CRI also.

8. **Packing:**
Manufacturer's standard export packing shall be applied.

9. **Port of Destination:**
Kolkata port.

10. **Transportation:**

a) **Supply of Spare GT Rotor:** Inland transportation from Kolkata Port to the Plant Site including port clearance shall be responsibilities of NEEPCO. The Corporation will pay freight charges in Indian Rupees.

b) **CRI & CRR:** The responsibility of transportation of old GT Rotor from Assam Gas Based Power Plant (India) to Kobe (Japan) is on NEEPCO. The responsibility of transportation of the same from Kobe (Japan) to Takasago (Japan) shall be on MC. Entry/Exit point is Kobe port. Same term shall be applicable for return journey from Takasago, Japan.

11. **Custom Clearance in India:**
The responsibility of custom clearance shall lie with NEEPCO. The "Coordinator, NEEPCO, Kolkata" shall take all necessary action towards arranging custom clearance expeditiously so that no demurrage charge is involved. Custom Clearance of old GT Rotor for CRI & CRR at Kobe, Japan will be done by MC.

12. **Security-cum-Performance Guarantee:**
Within 30(thirty) days from the date of issue of purchase order, the supplier shall furnish bank guarantee from a scheduled nationalized bank for an amount equivalent to 10% (ten percent) of the contract value towards faithful performance of the contract. The Bank Guarantee shall be valid for a period to cover 90(ninety) days after expiry of warranty period. The schedule of submission of BG shall be as mentioned in **"Terms of Payment"** at Sl. No. 4 above. Bank charges for processing of BG will be borne by supplier.

13. **Warranty Period:**
The contractor warrants that goods supplied in accordance with this contract shall be free from defects in design, material and workmanship (excluding defects caused by normal wear and tear) for the period until the earlier of; a) 12 (twelve) months after the installation of the goods; and b) 9,000 EOH from the installation of the spare rotor into the gas turbine subject to the owners recording EOH as per O&M manual, and c) 18 (eighteen) months from the date of delivery at the relevant spare rotor to FPB Repair. Facility's port of export (within the meaning of INCOTERMS 2000).

Any defects observed in the goods supplied shall be informed to contractor within 7(seven) days and contractor shall repair or replace the part. Repaired goods shall be further warranted for the same period as original warrantee.

14. **Buy Back of Rotor:** Cost of Buy back of old compressor rotors shall be adjusted/and discounted from each CRI&CRR price @ 800,000 JPY as per Annexure I.

15. **Limitation of Liability and Indemnity:**

a) Indirect, Incidental and Collateral Loss or Damage

In no event, whether as a result of breach of the contract, warranty, indemnity, tort (including negligence), Strict liability, or otherwise, shall the Contractor be liable to the owner for loss of profit or revenues; loss of business; loss of use of the Facility including, but not limited to, any associated equipment; cost of capital; cost of substitute equipment, facilities, services or replacement power; downtime costs; costs of collateral or downstream damage, howsoever caused; incidental expenses, including the costs of opening and closing the Gas Turbine, Transportation costs, incurred for whatever reason; claims of the owner's customers for such damages; or for any special, consequential, incidental, indirect, punitive or exemplary damages.

b) Maximum Liability

The aggregate liability of the Contractor under or in connection with this contract, on all claims of any kind, whether in contract, warranty, indemnity, tort (including negligence), Strict liability, errors or omission or otherwise, arising out of the supply of any goods or services supplied, shall be 100% of the amount equal to Contract price.

16. **Liquidated Damage:**

In case the supplier fails to deliver the materials within contractual delivery period due to reasons attributable to the supplier, then the Corporation reserve the right to recover from the supplier's sum towards Liquidated Damage @ ½ % (half percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the schedule delivery date (or extension thereof). The total recovery from the supplier on account of this shall, however, not exceed 10% (ten percent) of the value of the undelivered portion of supply. However, the Liquidated Damage will not be imposed if the supplier fails to deliver the materials within the scheduled delivery period due to Force Majeure conditions, which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, floods, explosion or fire not caused by the supplier's negligence, lightning, acts of God or the public enemy which is of such a nature as to delay, curtail or prevent timely action by either party.

17. **Place of Arbitration:** Shillong, Meghalaya, India

18. **Rejection of Defective Materials:**

If the materials are found defective at the time of receipt, the same shall be rejected and the supplier shall replace the same at their own cost. Transportation cost for the replacement of the materials will be borne by the supplier.

19. **Consignee:**

The materials shall be received by the Coordinator, Kolkata, NEEPCO, DS-1, Manjktola Civic Centre, 1/16,VIP Road, CIT Scheme No. VII M, P.O.: Kankurgachi, Kolkata-700 054 who will thereafter forward the same to the ultimate consignee as detailed below:

The Senior Manager (E/M) Material Management Wing
Assam Gas Based Power Plant, NEEPCO,
P.O. Bokuloni, District: Dibrugarh, Assam.
PIN: - 786191

20. Shipping Document:

Shipping documents shall include:

a) Mitsubishi Corporation's Invoice
b) Packing list
c) Proof of shipment
d) Certificate of Origin

Copies of shipping documents shall be forwarded in advance to the ordering authority with copies to:

a) The "Coordinator, Kolkata", NEEPCO, DS-I, Maniktola, 1/16, VIP Road, CIT Scheme No. VII M, P.O. Kankurgachi, Kolkata – 700 054
b) The Head Of Project, Assam Gas Based Power Plant, NEEPCO Ltd., Bokuloni, Dist – Dibrugarh, Assam, PIN: 786 191
c) The Deputy General Manager (F) CT, NEEPCO Ltd., Shillong – 793 003
d) The ultimate consignee as mentioned above under clause No. 19.

21. Address for correspondence:

All correspondences in respect of this order shall be made with –
The General Manager &
Head of Project,
Assam Gas Based Power Plant, NEEPCO Ltd.,
P. O. Bokuloni Chariali,
Dist. Dibrugarh, Assam, PIN – 786191.
(Fax No. 0374-2825217/2825349)

Kindly acknowledge receipt of this Purchase order and convey your acceptance.
Thanking you,

Encl: As stated above

Yours faithfully,

(H. K. Deka),
GM & Head of Project,
AGBP, NEEPCO Ltd.

NIO
Memo No. NEEPCO/AGBP/ HOP/2013-14/W-8(A)/ 206-213, Dated 28/05/2013
Copy to:

1. The Director (Tech.), NEEPCO Ltd., Shillong, for kind perusal. This has reference to CMD's approval Dated 14/02/2013.
2. The Executive Director (O&M), NEEPCO Ltd., Shillong, for kind perusal.
3. The DGM (F) CT, NEEPCO Ltd., Shillong – for information please.
4. The DGM (E/M), AGBP, NEEPCO Ltd., Bokuloni, please
5. The Sr. Manager (E/M), GT&AD, AGBP, NEEPCO Ltd., Bokuloni, please
6. The Sr. Manager (E/M), MMW, AGBP, NEEPCO Ltd., Bokuloni, for information please.
7. The Manager (F), F&A Wing, AGBP, NEEPCO Ltd., Bokuloni, for information please. Enclosed a copy of the approval.
8. The Dy. Manager (Vigilance), AGBP, NEEPCO Ltd., Bokuloni, for information please.

28.5.2013

GM & Head of Project,
AGBP, NEEPCO Ltd.

Annexu

P. O. No. NEEPCO/AGBP/HOP/W-8(A)/2013-14/205, Dt. 28/05/2013

SCHEDULE OF ITEMS & PRICES

Sl. No.	Description of Items	Qty	Unit Rate (JPY)	Total Amount (JPY)
1	New GT Rotor (Scope of supply & Technical Specification at Annexure-II & III)	1	430,000,000	430,000,000
2	Container	1	5,459,000	5,459,000
3	CRR & CRI of MHI make Gas Turbine with newly manufactured Compressor Rotor with upgraded MGA10D material (Scope is as per Technical Proposal ME101968)*	3	181,503,000	544,509,000
4	Necessary Spares parts (Detail list of spares at Annexure-III)	3	17,807,800	53,423,400
	Total			**1,033,391,400**

(Japanese Yen one billion thirty three million three ninety one thousand four hundred only)

*Note:

Original proposed price	JPY 182,303,000
Less discount as Buy Back of Old Compressor Rotor	JPY 800,000
Current Price after discount	JPY 181,503,000

Annexure-II

P. O. No. NEEPCO/AGBP/HOP/W-8(A)/2013-14/205, Dt.28/05/2013

SCOPE OF SUPPLY

(Technical Proposal ME-110029)

1. **Scope of Supply:**
   M251B8 Gas Turbine rotor
   With:
   - Compressor blades
   - All of associated parts for compressor (Spring, Pin)
   - Turbine blades (assembled)
   - All of associated parts of turbine blades (seal pin, seal plate, etc)
   - Container
   - Weight (without blades) : 15 ton

P. O. No. NEEPCO/AGBP/HOP/W-8|A|/2013-14/205, Dt.28/05/2013

TECHNICAL SPECIFICATION OF NEW GT ROTOR

(Technical Proposal ME-110029)

Compressor Portion: 18 rows and shrink fitted rotor

Turbine Portion: 3 rows and bolted rotor

Table – 1 Rotor main components

Item No.	Parts	Qty	Material	Remarks
1	Compressor main shaft	1	10325GP	
2	Disc compressor # 1 - # 12	Each 1	10325PA	
3	Disc compressor # 13 - # 15	Each 1	MGA10D	Upgraded from 10325PA
4	Disc compressor # 16 - # 18	Each 1	MGA10D	Upgraded from 10725HJ
5	Spacer ring	5	10325DL	
6	Air separator	1	10325TG	
7	Torque tube	1	10325TG	
8	Coupling bolt	46	IN-718	Upgraded from IN-X750
9	Nut coupling bolt	46	10325DU	
10	Disc turbine row # 1	1	10325TG	
11	Bolt special	40	IN-718	Upgraded from IN-X750
12	Nut self lock	40	10305DU	
13	Side plate	1	10325TG	
14	Disc turbine row # 2	1	10325TG	
15	Disc turbine row # 3	1	10325TG	
16	Spindle bolt	10	IN-718	Upgraded from IN-X750
17	Washer spindle	10	SUS310S	
18	Hex nut	20	10305DU	
19	Baffle half turbine disc row #2 (between row 1 & 2)	2	Hastelloy X	
20	Baffle half turbine disc row # 3 (between row 2 & 3)	2	Hastelloy X	

P. O. No. NEEPCO/AGBP/HOP/W-8(A)/2013-14/205, Dt.28/05/2013

TECHNICAL SPECIFICATION OF NEW GT ROTOR

(Technical Proposal ME-110029)

Table – 2 Compressor blades and associated parts which are supplied with the Rotor

Item No.	Parts	Qty
1	Compressor blade row #1	30
2	Compressor blade row #2	30
3	Compressor blade row #3	39
4	Compressor blade row #4	45
5	Compressor blade row # 5	45
6	Compressor blade row # 6	45
7	Compressor blade row # 7	45
8	Compressor blade row # 8	45
9	Compressor blade row # 9	45
10	Compressor blade row # 10	81
11	Compressor blade row # 11	81
12	Compressor blade row # 12	81
13	Compressor blade row # 13	81
14	Compressor blade row # 14	81
15	Compressor blade row # 15	81
16	Compressor blade row # 16	81
17	Compressor blade row # 17	81
18	Compressor blade row # 18	81
19	Pin blade	1098
20	Spring blade	1098
21	Balance plug	Q'ty req.

2. Documentation to be supplied

- Inspection and test plan for rotor.
- Inspection and test results.
- Momentum weight and assembly chart for blades.

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लिमिटेड
(मिनी रत्ना, श्रेणी I, भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Limited,
(Mini Ratna Category - I, Govt. of India Enterprise)
ISO: 9001 – 2015
ISO: 14001 – 2015
OHSMS: 45001 – 2018
असम गैस बेस्ड पावर प्लांट, का॰ संयंत्र प्रमुख
Assam Gas Based Power Plant,
डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

No. NEEPCO/AGBP/PEM/2020-21/O&M-05/ 260 Dated 17/10/2020

To,

M/S Mitsubishi Corporation,
Power Systems International Office,
New Energy and Power Generation Division,
3-1, Marunouchi, 2-Chome, Chiyoda-Ku,
Tokyo – 100-8086, Japan.

Sub: NEEPCO/AGBP – Purchase order for supply of Spare Parts and consumables for Major Inspection of Generator and Electrical Equipment of MHI make Gas Turbine Unit # 2 (Model No. MW251B).

Ref:
1. Our letter No. NEEPCO/AGBP/PEM/O&M-05/2019-20/353 Dated 05/09/2019
2. Your Technical document submitted vide E-mail Dated 05/11/2019 (No. JEJQ-190454-W050).
3. Our Letter Ref. No. NEEPCO/AGBP/PEM/O&M-05/2019-20/278 Dated 20/11/2019.
4. Your offer No. JEJQ-190454-W050 submitted vide E-mail Dated 29/11/2019
5. Our letter No. NEEPCO/AGBP/O&M-05/2019-20/410 Dated 18/12/2019
6. Your revised offer No. JEJQ-190454-W050. Rev.A submitted vide E-mail Dated 27/12/2019
7. Our E-mail Dated 23/01/2020.
8. Your Revised Offer Ref. No. JEJQ-190454-W050 SP R1 Dtd. 27/01/2020 forwarded vide E-mail Dated 30/01/2020
9. Our letter No. NEEPCO/AGBP/O&M-05/2019-20/487 Dated 31/01/2020
10. Your letter No. XAF-NEEPCO-M4616X578-SP R2 Dated 05/02/2020 (**Revised offer**)
11. Our letter No. NEEPCO/AGBP/PEM/O&M-05/2019-20/565 Dated 05/03/2020
12. Your letter No. ENY/XA-F802 Dated 11/03/2020 received vide E-mail Dated 11/03/2020.
13. Your Letter Ref. No. ENY/XA-F844 Dtd. September 17, 2020 against validity of Offer.

Dear Sir,

With the above reference, the Corporation is pleased to place this Purchase Order for supply of following spare part/consumables for Major Inspection of Generator and Electrical Equipment of MHI make Gas Turbine Unit # 2 as per following terms & conditions:

Terms & Conditions:

1. **Scope:**
The scope shall include supply of spare parts and consumables for Major Inspection of Generator and Electrical Equipment of MHI make Gas Turbine Unit # 2 as per the Schedule of Item and Prices (Annexure-I) enclosed along with this order on **FOB, Japan** basis.

2. **Schedule of Item & Prices:**

Description of Goods	Qnty.	Unit Price (¥)	Amount FCA Japan (In Japanese Yen)
Consumable Materials (REAMER BOLT & NUT FOR EXCITER COUPLING OF SIZE ϕ 24) (Item No. 74 of Price List AWRC-19-172-1)	14 Pcs	38,000	¥ 532,000

The prices for supply of spare part/consumables for Major Inspection of Generator and Electrical Equipment of MHI make Gas Turbine Unit # 2 as detailed above is **JPY 632,000 (Japanese Yen Five Hundred Thirty Two Thousand) only on FCA, Japan**, which shall remain firm till completion of supply. The prices are including packing and forwarding but excluding freight, insurance and any tax, duty or levy that may be imposed in India, which, if applicable, shall be paid by NEEPCO at actual. Freight charges will be paid by NEEPCO at actual in Indian Rupees at the time of delivery of the spares at Indian Port directly to the carrier against raising of bills. All taxes, charges, duties etc. leviable outside India shall be to your account only. No agency commission is payable by us.

3. **Terms of Payment:**
100% contract price shall be made in Japanese Yen by an irrevocable, confirmed and non-restricted Letter of Credit to be established for the full amount in favour of Mitsubishi Corporation, Tokyo, **(ATTN: ENY/XA-F)** confirmed by a first class bank in Japan or Europe or USA, acceptable to Mitsubishi Corporation and payable at sight draft to be opened in favour of Mitsubishi Corporation, Tokyo, against presentation of shipping documents and with sufficient validity to cover contractual time of shipment plus 21 days for negotiation but within validity of L/C. Any amendment charges which will be required due to the reason not attributable to seller shall be borne by buyer. Part payment against part shipment is allowed.

4. **Insurance:**
Insurance during transit to cover transit risks from Japanese airport/port of origin to NEEPCO's warehouse at AGBP site shall be covered under NEEPCO's **open marine Policy No. 200400212010000024 with National Insurance Company Limited, Ginoria Mansion, Chirwapatty Road, Tinsukia, Assam, PIN - 786125, (Fax No. 0374 – 2337191; Phone No. 0374 – 2331230)**. NEEPCO shall settle any claim directly with the underwriters. A copy of the insurance policy shall be provided to Mitsubishi Corporation for arranging shipment upto Kolkata. Supplier should give prior intimation in writing to the above mentioned underwriters as well as the consignee the exact date of shipment of the materials to ensure insurance coverage against transit risks.

5. **Delivery Period:**
Shipment of the items under **Annexure-I** shall be made within 5 (Five) months on FCA Japan and for Option Item: 7 Months on FCA Japan from the date of receipt of order or opening of relative irrevocable letter of credit acceptable to Mitsubishi Corporation whichever is later. Partial shipment shall be allowed. However, Mitsubishi Corporation will be requested to complete the delivery of materials as soon as possible so that the work can be started as per schedule.

6. **Packing:**
Manufacturer's standard export packing shall be applied.

7. **Port of Destination:**
Airport, Kolkata.

8. **Inland Transportation:**
Inland transport from Kolkata Airport to the Plant Site including port clearance shall be responsibilities of NEEPCO. The Corporation here will pay Air freight charges in Indian Rupees. Your documents like Airway bill should indicate "Freight to pay" or "Freight to collect".

9. **Custom Clearance:**
The responsibility of custom clearance shall lie with NEEPCO. The "Coordinator, NEEPCO, Kolkata" shall take all necessary action towards arranging custom clearance expeditiously so that no demurrage charge is involved.

10. **Warranty Period:**
All the materials supplied shall be warranted against any defect of design, material, manufacturing or faulty workmanship for a period of 12 (twelve) months after arrival to the site (from the date of receiving inspection) or 18 (eighteen) months after FOB, whichever comes earlier.

11. **Rejection of Defective Materials:**
If the materials are found defective at the time of receipt, the same shall be rejected and the supplier shall replace the same at their own cost. Transportation cost for the replacement of the materials will be borne by the supplier.

12. **Consignee:**
The materials shall be received by the Coordinator, Kolkata, NEEPCO, DS-1, Maniktola Civic Centre, 1/16, VIP Road, CIT Scheme No. VII M, P.O.: Kankurgachi, Kolkata-700 054 who will thereafter forward the same to the ultimate consignee as detailed below:
The DGM (E/M) Material Management Wing
Assam Gas Based Power Plant, NEEPCO,
P.O. Bokuloni, District: Dibrugarh, Assam (INDIA). PIN: - 786191.

13. Shipping Document:

Shipping documents shall include:

i. Mitsubishi Corporation's Invoice
ii. Packing list
iii. Proof of shipment
iv. Certificate of Origin
v. Copies of Airway Bills

Copies of shipping documents shall be forwarded in advance to the ordering authority with copies to:

i) The "Coordinator, Kolkata", NEEPCO, DS-I, Maniktola, 1/16, VIP Road, CIT Scheme No. VII M, P.O. Kankurgachi, Kolkata – 700 054
ii) The Head Of Project, Assam Gas Based Power Plant, NEEPCO Ltd., Bokuloni, Dist – Dibrugarh, Assam, PIN: 786 191
iii) The CGM (F) CT, NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong – 793 003
iv) The ultimate consignee as mentioned above under clause No. 12.

14. Address for correspondence:

All correspondences in respect of this order shall be made with –
The Chief General Manager &
Head of Project,
Assam Gas Based Power Plant, NEEPCO Ltd.,
No.3 Bokuloni Village,
Dist. Dibrugarh, Assam, PIN – 786191.
(Fax No. 0374-2825349/2825217)

Kindly acknowledge receipt of this Purchase order and convey your acceptance.
Thanking you,

Enclo: As stated above

Yours faithfully,

For & on behalf of
CGM (E/M) & Head of Project
DGM (E/M), PEMC, AGBP
NEEPCO Ltd., Bokuloni
Dist: Dibrugarh, Assam (India)

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लिमिटेड
(मिनी रत्ना, श्रेणी १, भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Limited,
(Mini Ratna Category - I, Govt. of India Enterprise)
असम गैस बेस्ड पावर प्लांट, का. संयंत्र प्रमुख
Assam Gas Based Power Plant,
डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

ISO: 9001 – 2015
ISO: 14001 – 2015
OHSMS: 45001 – 2018

No. NEEPCO/AGBP/PEM/2020-21/O&M-05/229 Dated 10.09.2021.

To,

M/S Mitsubishi Corporation,
Power Systems International Office,
New Energy and Power Generation Division,
3-1, Marunouchi, 2-Chome, Chiyoda-Ku,
Tokyo – 100-8086, Japan.

Sub: Amendment of Purchase order for supply of Spare Parts and consumables for Major Inspection of Generator and Electrical Equipment of MHI make Gas Turbine Unit # 2(Model No. MW251).

Ref:

1. Our P.O. No. NEEPCO/AGBP/PEM/2020-21/O&M-05/251 & 260 dated 17.10.2020.
2. Your email dated. 19.10.2020.
3. Our email dated 20/10/2020.
4. Our email dated 07/01/2021 to confirm acknowledgement of PO.
5. Your email dated 08/01/2021 enclosing letters.
6. Your Letter No. MCY/XA-F902 dated 31/05/2021 conveyed via email dtd.04/06/2021 requesting to remove the item (cooling fan) from PO.
7. Our email dated 21/06/2021 against your email dtd.04/06/2021
8. Your email dated 25/06/2021 against our email dated 21/06/2021 regarding cooling fan.
9. Our email dated 07/7/2021 to carry out overhauling works.
10. Your email dated 02/08/2021 for web meeting on August 4th 2021.
11. Our email dated 12/08/2021 intimating abstract of correspondences.
12. Your email dated 16/08/2021 & 17/08/2021 regarding pending issues and for LC Amendment.
13. Your email dated 01/09/2021 requesting to remove Cooling fan motor from PO and intimating cargo is ready to ship out.
14. Our email dated 01/09/2021 by assuring to remove Cooling Fan from PO and with confirmation to ship out the materials.
15. Your email dated 07/09/2021 requesting to remove 2(two) items "Life Diagnosis" from PO and to include in TA Service Order.
16. Our email dated 08/09/2021 for consideration against your email dtd.07/09/2021 and intimation to completed works in line with overhauling of Gas Turbine.
17. Our email dated 09/09/2021 against your email dated 09/09/2021.
18. Your email dated 10/09/2021 with Price Breakup.

Dear Sirs,

With reference to the above, the Corporation is pleased to amend the Purchase Order No. NEEPCO/AGBP/PEM/2020-21/O&M-05/251 dated 17/10/2020 placed for supply of Spare Parts and consumables for Major Inspection of Generator and Electrical Equipment of MHI make Gas Turbine Unit # 2(Model No. MW251) as follows:

1. The items stipulated under the Sl. No. 1-1 and 1-2 of "1-6 *Parts for Life Diagnosis and Major Inspection for Generator Transformer*" enclosed with the Purchase Order No. 251 dated 17.10.2020, was considered in the Order based on your Offer. However, it has been requested to include the said items in the Technical Advisory Services Order No. 267 Dated 17.10.2020, being the items service in nature.

2. The Cooling Fan Type KBW3-54 (*Item at Sl. No. 2.8 of " 1-6 Parts for Life Diagnosis and Major Inspection for Generator Transformer*" of Purchase Order No. 251 dated 17.10.2020 has been deleted as requested, since the item is not compatible with Energy efficient Motor regulation imposed in India.
   In view of the above, the "Annexure-I" and "1-6 Parts for Life Diagnosis and Major Inspection for Generator Transformer" enclosed with the order No. 251 dated 17.10.2020 are hereby amended and may please be read as per "Annexure-I (Amendment)" and "1-6 Parts for Life Diagnosis and Major Inspection for Generator Transformer (Amendment)" enclosed herewith.

Considering the above changes, the revised FOB price of the Purchase Order may please be read as JPY 18,768,100.00 (Japanese Yen Eighteen Million Seven Hundred Sixty-Eight Thousand One Hundred) only.

The other Terms & Conditions of the Purchase Order placed vide No. NEEPCO/AGBP/PEM/2020-21/O&M-05/251 Dated 17.10.2020 shall remain same. Kindly acknowledge receipt of this order and convey your acceptance.

Enclosed:
1. Annexure-I (Amendment)
2. 1-6 Parts for Life Diagnosis and Major Inspection for Generator Transformer (Amendment).

Yours faithfully,

For & on behalf of
CGM (E/M) & Head of Project
DGM (E/M), PEMC, AGBP
NEEPCO Ltd., Bokuloni
Dist: Dibrugarh, Assam (India)

NIO
Memo No. NEEPCO/AGBP/PEMC/2021-22/O&M-05/230-237 Dated 10-09-2021

Copy to:
1. The Director (Tech), NEEPCO Ltd., Shillong - for favour of kind information.
2. The Executive Director (O&M), NEEPCO Ltd., Shillong - for kind information.
3. The CGM & HOP, AGBP, NEEPCO Ltd., Bokuloni- for favour of kind information.
4. The GM (Fin) CT, NEEPCO Ltd., Shillong for kind information and necessary action.
5. The GM (Fin), AGBP, NEEPCO Ltd., Bokuloni, for information please.
6. The DGM (E/M) (Vigilance Wing), AGBP, NEEPCO Ltd., Bokuloni, for kind information.
7. The DGM (E/M), MMW, AGBP, NEEPCO Ltd., Bokuloni, for information please.
8. The Coordinator, NEEPCO Ltd., DS-I, Maniktola Civic Centre, CIT Scheme No. VII M 1/16, VIP Road, P.O. Kankurgachi, Kolkata – 700 054 – for information and necessary action please.

For & on behalf of
CGM (E/M) & Head of Project
DGM (E/M), PEMC, AGBP

उप महा प्रबंधक (वि.र.)
Deputy General Manager (E/M)
प्लांट इलेक्ट्रिकल मैंटेनेंस कॉम्पलेक्स,
Plant Electrical Maintenance Complex
एनईईपीसी, बोकुलनी
AGBP, NEEPCO, Bokuloni

Annexure-I (Amendment)

Shedule of Items & rates against Supply Parts for Major overhaul of GTG U #2, at Assam Gas Based Power Plant, NEEPCO Ltd, Assam (India)

Sl. No.	Description of Goods	Quantity	Unit Price	Amount FCA Japan as per Offer XAF-NEEPCO-M4616X578-SP- R2 Dtd. 5-Feb 20 (In Japanese Yen)
1.1	Consumable Materials for Generator Exciter as Per price list AWRC-19-172-1 (One item Sl. No. 74 of the Final Offer is dropout)	1 Set	-	3,859,700.00
1.2	Sheet for Rotor Pull out as per Price List (AWRC17-159A)	1 Set	-	3,320,000.00
1-4	Parts for Stator Winding Inspection (Air cooled Generator) as per price list AWRC18-111A)	1 Set	-	521,400.00
1-5	IPB Parts for Generator Inspection as per price list (R42802-0)	1 Set	-	1,441,900.00
1-6	Parts for Life Diagnosis and Major Inspection for Generator Transformer (M4616X578-R2)	1 Set	-	609,300.00
1-7	Special Tools (Fan Guide Support)	1 Lot	-	557,800.00
2	Recommended Parts (Option)	1 Set		8,458,000.00
	A) Total Cost of Spares (FOB Price)			**18,768,100.00**

उप महा प्रबंधक (वि/मर)
Deputy General Manager (E/M)
प्लांट इलेक्ट्रिकल मेंटेनेंस कॉम्प्लेक्स
Plant Electrical Maintenance Complex
एनईपीसीओ, नीपको, बोकुलगरी,
NEEPCO Bokulgari

1-6 Parts for Life Diagnosis and Major Inspection for Generator Transformer (Amendment)

M4616X578-R2 (Revised)

1. Life diagnosis for Generator TR as per Price List (ET2164) (Amendment)

No.	Item	Qty	Discounted Rate	Total JPY
1.1	Insulation oil analysis - Dislove gas Analysis (DGA) -Characteristics (Breakdown voltage, Moisture content, Acid value)	The item deleted from this Purchase order and included in TA Service Order		
1.2	Life diagnosis by Frufral method			
1.3	Oil sampling container	1 set	29,612.00	29,612.00
1.4	Sampling adapter	2 pcs	5,794.00	11,588.00
	* Analysis by MELCO Ako factory	**Sub Total**		**41,200.00**

2. Major Inspection of Generator TR (Amendment)

No.	Item	Qty	Unit JPY	Total JPY
2.1	Gasket (O-ring) & bolt for Terminal box of protective devices & aux. equipment	1 Set	456,500.00	456,500.00
2.2	Silica gel (2kg/can) for dehydrating filter breather	2 pcs	9,200.00	18,400.00
2.3	Silicon-oil (200mL/bottle) for for dehydrating filter breather	1 pc	4,900.00	4,900.00
2.4	Liquid Gasket (Sealant)	1 Set	27,400.00	27,400.00
2.5	Consumable (Waste rug, Adhesive tape and Brush)	1 Set	60,900.00	60,900.00
2.8	**Cooling fan type KBW3-54**	**Item deleted from this Purchase Order**		
		Sub Total		**568,100.00**

Grand Total	**609,300.00**

10/09/2024

Deputy General Manager (E/M)
Plant Electrical Maintenance Compl...

U.O. No. 1931

Fax No. 011-26198092

प्राधिकरण
Central Electricity Authority
तापीय नवीनीकरण परियोजना एवं आधुनिकीकरण प्रभाग
Thermal Project Renovation and Modernisation Division
सेवा भवन, नवम तल (उ)
Sewa Bhawan, 9th Floor, (N)
नई दिल्ली - 110 066
New Delhi - 110066

Dated: 27-08-2015

No.2/3/Misc./TPRM/CEA/2015/765

Sub: Identification of TPS units required R&M/LE during 13th Plan period

In the meeting of Ad-hoc Task Force (ATF) on RFD of Ministry of Power (MOP) convened on 03.04.2013, it has been stressed upon that Power Utilities should take up R&M / LE works on at least 20% of units which qualify for R&M and LE interventions. As per CEA guidelines, units above 15 years old qualify for Mid Life R&M works whereas units above 25 years qualify for comprehensive R&M works for Life Extension.

In view of the above you are requested to intimate the units for which R&M/LE works shall be taken up during the 13th Plan Period i.e. 2017-22 under two categories as furnished below:

(a) Mid Life R&M works of units completing 15-25 years of plant life on 31.03.2017
(b) Comprehensive R&M works for Life Extension of units completing 25 years of plant life on 31.03.2017

Further, you are also requested to furnish the unit wise preparedness regarding taking up the R&M/LE works viz. RLA/CA studies completed, Scope of works finalized, DPR prepared, funds tied up etc.

(भाई लाल)
मुख्य अभियंता

To:

1. The General Manager (R&M-Engg.), National Thermal Power Corporation Ltd. Engineering Office Complex, A-8A, Sector-24, Noida-201301 (Fax: 0120-2410013/2410106)

Director (Technical), NEEPCO Ltd., Brook Land Compound, Lower New Colony, Shilong-793003 (Fax No. 0364-2228520)

रजिस्ट्री सं० डी० एल०-33004/99

REGD. NO. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

असाधारण
EXTRAORDINARY
भाग III—खण्ड 4
PART III—Section 4
प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 211] नई दिल्ली, शुक्रवार, अगस्त 20, 2010/श्रावण 29, 1932
No. 211] NEW DELHI, FRIDAY, AUGUST 20, 2010/SHRAVANA 29, 1932

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 20th August, 2010

No. CEA/TETD/MP/R/01/2010.—In exercise of the powers conferred by sub-section (2) of Section 177 of the Electricity Act, 2003, the Central Electricity Authority hereby makes the following regulations namely :—

1. **Short Title and Commencement.**—(1) These regulations may be called the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2010.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. **Definitions.**—(1) In these regulations, unless the context otherwise requires,—

(a) "Act" means the Electricity Act, 2003;

(b) "Authority" means the Central Electricity Authority established under sub-section (2) of Section 70 of the Act;

(c) "Base Load Operation" means operation at maximum continuous rating (MCR) or its high fraction;

(d) "Basic Insulation Level (BIL)" means reference voltage level expressed in peak (crest) voltage with standard 1.2/50 μs lightning impulse wave. Apparatus should be capable of withstanding test wave of basic insulation level or higher;

(e) "Black Start" means the start up of a generating unit or gas turbine or internal combustion (IC) engine based generating set without use of external power following grid failure;

(f) "Boiler Maximum Continuous Rating (BMCR)" means the maximum steam output, the steam generator (boiler) can deliver continuously at rated parameters;

(f) *SF_6 Filling, Evacuation, Filtering, Drying & Recycling Plant*

SF_6 filling, evacuation, filtering, drying and recycling plant with adequate storage capacity shall be provided at a new sub- station or new switchyard or for a cluster of sub-stations and switchyards along with trolley for filling or evacuation of SF_6 circuit breaker or gas insulated switchgear (in case of GIS installation) and to monitor the purity, moisture content, decomposition product etc. of SF_6 gas.

(4) Protection and control

(a) *Protective Relaying System*

Adequately sectionalized and graded protective relaying system shall be provided for transmission lines, transformers and bus bars so as to automatically isolate the faulty equipment and, thus, minimize the damage to the equipment in the event of faults and abnormal conditions. All main protection relays shall be of numerical type and communication protocol shall be as per IEC-61850/ relevant IS.

(b) *Grouping of Protection*

(i) The protection functions shall be subdivided into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing. Wherever two sets of DC sources are available, the relays shall be electrically and physically segregated into two groups (Gr. A and Gr. B) to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service. Grouping shall be done to the extent possible in such a way that each group can independently carry out protective functions with near equal redundancy. Interconnection between these two groups shall not generally be attempted. However, if found absolutely necessary such interconnection shall be kept to the bare minimum.

(ii) Even in cases when only one battery source is available, segregation of protection and trip circuits in two groups may be considered by giving DC supplies through separate fuses.

(c) The protection in respect of transmission lines, transformers, reactors and bus bars are indicated in Schedule- V.

(d) *Disturbance Recorders, Event Loggers and Time Synchronisation Equipment-* Each 765kV, 400 kV and 220 kV line shall be provided with facility for disturbance recording, distance to fault locator and time synchronising equipment (TSE). Event logger either stand alone or as part of sub- station or switchyard automation system shall be provided for each 220kV and higher voltage class sub-

ISO: 9001 – 2015
ISO: 14001 – 2015
OHSMS: 45001 – 2018

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लिमिटेड
(मिनी रत्ना, श्रेणी १, भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Limited,
(Mini Ratna Category - I, Govt. of India Enterprise)
असम गैस बेस्ड पावर प्लांट, का. संयंत्र प्रमुख
Assam Gas Based Power Plant
डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

Ref: NEEPCO/AGBP/PEM/O&M-12/2021-22/ 190

Date: 21/08/2021

To,

M/s Everlite Engineering Industries
Everlite House, Laipul
P.O: Panitola
Assam-786183
FAX 0374-2310126; Phone: 03742318564/2316579
Email: EVERASSAM1@GMAIL.COM; vsingh_viru@rediffmail.com

Sub: Detailed Purchase Order for "Supply, Retrofitting, Testing and Commissioning of GE T&D India Ltd make relays"-at AGBP, NEEPCO Ltd., Bokuloni Chariali, Dibrugarh, Assam.

Ref:

1. Enquiry vide letter no. NEEPCO/AGBP/ PEM/O&M-12/20-21/441 dated 08/02/2021
2. Offer vide letter no. NEEPCO/AGBPP/RELAY/2021 dated. 24-02-2021 & 11.06.2021
3. Request for clarifications vide letter no. NEEPCO/AGBP/PEM/O&M-12/21-22/132 dated 03/07/2021.
4. Clarifications received vide no. NEEPCO/AGBPP/Relay/2021/Clarification Dated 13/07/2021.

Dear Sirs,

With reference to the above, the corporation is pleased to issue the detailed Purchase Order for "Supply, Retrofitting, testing and commissioning" as per following terms and conditions:

Supply:

Sl.	Item	Qty.	Unit Ex-works Price (Chennai) (in Rs.)	Total Ex-works Price (Chennai) (in Rs)
1	GE T&D India make Numerical Protection relay, Type: MiCOM P14NB15B3B0010E on IEC61850 protocol.	17	70,000.00	11,90,000.00
2	GE T&D India make Numerical Protection relay, Type: MiCOM P94VB15B3B0010E on IEC61850 protocol.	10	70,000.00	7,00,000.00
3	GE T&D India make Protection relay, Type: MVAJM14, 220 V DC	06	9,600.00	57,600.00
4	GE T&D India make Protection relay, Type: VTT11ZG8153BCH , 220 V DC	05	7200.00	36,000.00
5	GE T&D India make Protection relay, Type: VAG11YF5AG, 220 V DC	04	4000.00	16,000.00
			Total	19,99,600.00
(Rupees Nineteen Lakh Ninety Nine Thousand Six Hundred) only				

21/08/21

Services:

Sl. No.	Service	Qty.	Unit Lump Sum Service Charge (Rs.)	Total Lump Sum Service Charge (Rs.)
1	Retrofitting, Testing and Commissioning of P14N relays	14	40,000.00	5,60,000.00
2	Retrofitting, Testing and Commissioning of P94VB relays	08	40,000.00	3,20,000.00
3	Retrofitting, Testing and Commissioning, of MVAJM14 relays	06	8,000.00	32,000.00
Sub total				9,28,000.00
(Rupees Nine Lakh Twenty Eight Thousand) only				

TERMS AND CONDITIONS:

1. **Price:** The Prices is Ex-Works (Chennai) and shall remain "FIRM" till completion of delivery of the materials (for materials) and till completion of commissioning (for works). The prices are Exclusive of Taxes and duties, fright and Insurance.

   1.1 Taxes and Duties: All applicable taxes and duties shall be paid extra at actual at the time of execution as per Govt. prevailing norms. (Present rate of GST @ 18% for supply and service, TCS @ 0.1%). GST shall be applicable subject to submission of GST details. ***Our (Assam Gas Based Power Plant) GSTIN and PAN is '18AACN9991J3ZP' and 'AAACN9991'***

   1.2 Freight & Transit insurance: - Materials have to transport through reputed transporter/courier service. Freight charges shall be paid extra at actual against submission of documentary evidence and restricted @2% of basic price. *The transit insurance shall be arranged by NEEPCO under NEEPCO's Marine Open Policy & the Firm has to intimate to the undersigned/ Consignee before dispatch for issuance of Transit Insurance and Road Permit.*

2. **Scope of supply:** - The scope will include Design, Manufacturing and Routine Test as per relevant standard (at manufacturer's works), packing and forwarding, supply and delivery of items as quoted in the offer.

   Supply of required wiring materials (i.e. wires, ferrules, lugs, Terminal blocks) and blanking plates for retrofitting and wiring of protective scheme during site activities as quoted in the offer.

   All the existing auxiliary relays will be retained in the protective scheme. However, if any auxiliary relay(s) is/ are found to be defective at the time of commissioning, same shall be replaced/ repaired on chargeable basis, which shall be regularized after completion of the commissioning.

3. **Scope of Work :-** The scope of work will include
   a. Design and re-engineering for the protection scheme.
   b. Removal of existing protection schemes.
   c. Mounting and wiring of new protection scheme.
   d. Testing and Commissioning of new protection schemes. All the protection logics shall be made operative as per the scheme requirement.
   e. Supply of required wiring materials and Blanking Plates for Mounting and Wiring of Protective scheme during site activities.
   f. Supply and termination of cables outside to the protection panels are not included in the scope of work.

g. All auxiliary relays/Trip relays of the existing protection schemes will retain as earlier. If auxiliary relays found defective, it will replaced/repaired by the Firm on chargeable basis.

Work completion report should include:

I. Report of commissioning,
II. Final drawings of all the schemes commissioned,
III. Final logic diagrams (PSL) of all the schemes commissioned.
IV. Complete list of relay setting values at the time of commissioning.
V. List of all programmable inputs and/ or outputs used indicating usage and
VI. Any other relevant document(s) if any.

4. **Technical specification and Drawing:** You are requested to submit modified final drawing if any modification is required during commissioning (indicating the modification(s)).

5. **Terms of Payment:**

a. **For Supply**

100% (one hundred percent) payment against supply of the materials along with taxes and duties at actual shall be released within 30 days on receipt of the materials at AGBP site in full and good condition and against submission of the following dispatch documents:

a) Bill in triplicate
b) Test/Inspection Certificate,
c) Consignment note/Challan,
d) Guarantee /Warrantee Certificate,
e) Bank account details for e- payment (as per format enclosed),

b. **For Works**

100% (one hundred percent) payment with taxes applicable will be released on successful Commissioning completion of each relays (part payment) against submission of:

a) Bill in triplicate,
b) Work completion report.

6. **Retrofitting and Commissioning:** Retrofitting and commissioning of the numerical relays at site will be carried out as mentioned in the offer of your principal M/s GE T & D India Ltd., Kolkata and as per the rates mentioned above. For this, no separate order shall be issued. The supplier will coordinate with their principal M/s GE T & D India Ltd., Kolkata for retrofitting and commissioning of the numerical relays and completion of the job on time. Kindly note that retrofitting and commissioning of the numerical relays will be done in a phased manner as per site conditions.

You will be intimated at least 15 (fifteen) days advance of the commencement of commissioning for your necessary arrangement.

7. **Security Deposit/Bank Guarantee:** The supplier have to be submit Performance Bank Guarantee cum security deposit @ 3% of ex-work material value in prescribed format from a reputed and registered bank having a validity of 90 days after expiry of the guarantee period. The SD/PBG shall be submitted within 20 days from issue of the purchase order on fulfilment of all the terms and conditions.

8. **Delivery:** The materials shall be delivered within 16 (Sixteen) to 20 (Twenty) weeks of receipt of technically and commercially clear order. However, effort should be given to shorten the delivery period.

9. **Guarantee/Warranty:** The numerical relays will be guaranteed for a period of 12(twelve) months from the date of commissioning or 18(eighteen) months from the date of supply,

whichever is earlier. The supplier will submit the Guarantee/Warranty certificate of all the numerical relays along with the material/Invoice.

10. **Testing and Inspection:** The numerical relays will undergo all the required tests as per the relevant IS codes. The supplier will submit the Test certificate of all the numerical relays along with the material/Invoice.

11. **Accommodation:** NEEPCO will provide accommodation to the commissioning Engineer/Team at site (Guest House) free of cost. However, the food shall be on chargeable basis.

12. **Liquidated damage:** In case you fail to deliver the materials within the contractual delivery period due to reason attributed to you, then the Corporation shall reserve the right to recover from your sum towards liquidated damages @ 1/4%(one forth percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the scheduled delivery date. The total recovery from you on account of this shall, however, not exceed 5% (five percent) of the value of the undelivered portion of supply. However the LD clause will not be imposed if you fail to deliver the materials within the scheduled delivery period due to Force Majeure conditions which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquakes, storms, floods, explosion or fire not caused by your negligence, lightning, act of God, public enemy which is of such nature as to delay, curtail or prevent timely action by either party.

13. **Rejection of defective materials:** If the materials found defective at the time of receipt, the same shall be rejected and the supplier shall have to replace the same at their cost.

14. **Consignee:** DGM (E/M), Material Management Wing, AGBP, NEEPCO Ltd., P.O. Bokuloni Chariali, District Dibrugarh, Assam-786191.

15. **Paying authority:** The Senior Manager (F), F&A Wing, AGBP, NEEPCO Ltd., P.O Bokuloni Chariali, District. Dibrugarh, Assam-786191.

Kindly acknowledge receipt of this order and confirm your acceptance thereof.
Thanking you,

Yours faithfully,

DGM (E/M), PEM
AGBP, NEEPCO Ltd.

Memo no. NEEPCO/AGBP/PEM/O&M-12/2021-22/ 191 dated 21.08.2021

Copy to:

1. M/s G E T & D India Ltd. Kolkata,
   DLF IT Park, Premises No. 8
   Major Arterial Road, Block 'AF'. Tower-C, 8th floor
   New Town Rajarhat, Kolkata-700 156
   Fax: 033-400 97043

DGM (E/M), PEM
AGBP, NEEPCO Ltd.

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बोकुलोनी, जिला- डिब्रूगढ़,असम, पिन - ७८६ १९१

North Eastern Electric Power Corporation
(A Govt.of India Enterprise)
www.neepco.gov.in
ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 191
PH: 0374-2825715, 0374-2825707/2825423/2825288 FAX: 0374-2825481/2825211

NO: NEEPCO/AGBP/C&I/T-09/2022-23/360000 Dtd 28/3/2022.

To
M/S Energia Systems Pvt. Limited,
52, Golf Club Road,
Kolkata-33, WB. Kind. Attn: Mr. Amit Paul, Ph: (033)23675715/5727

SUB:→ Purchase Order for Upgradation of EMS (ABT) software with High-end server.

Your offer No: 2122-0164-R0 Oct 01, 2021 & 2122-0164-R0/1 October 30, 2021.

Dear Sir,

The Corporation is pleased to place this Purchase order for the supply and services of Upgradation of EMS (ABT) software with High-end server as per BOM. Supply and service charges shall be as below.

S/N	Item Description	Qty		Total Rs
A	Supply		01 (one) set	23,70,000.00
1	Existing PME Software License Upgrade	1 set		
2	High End Server for latest PME software with OS	1 set		
3	ION - 8650 ABT Meter	1 No		
4	PM - 5560 Multifunction Energy Meter	3 No		
5	NTP Server with Display Clock	1 No		
6	Industrial Wireless	2 No		
7	Wireless Communication Cabinet for Colony	1 No		
B	Services		01 set	1,50,000.00
8	Customization of EMS software	1 No		
9	Commissioning of the New Server System at site.	1 No		

Terms & Conditions:

1. Price Basis:- Total Price as shown above is FOR site basis including P&F, Freight and insurance etc.
2. Payment terms: (a) 90% of supply plus 100% GST payment within 15 days of delivery of the material at site.
   (b) Balance 10% is payable only after successful commissioning of the system and on submission of Bill / Invoice in triplicate supported by the other relevant documents.
   (c) 100% service charge along with taxes shall be paid on successful commissioning of the system and on submission of Bill/Invoice in triplicate supported by other relevant documents. Following document must be submitted for in time payment. a) Bill/ Invoice in triplicate. b) Bank details in RTGS mandate format. c) Warranty/Guaranty certificate d) Delivery Challan.

GM(E) A/M(E)

3. Taxes: GST @18% extra shall be paid by NEEPCO. GST No of AG's. NEEPCO: 18AAACN9991J3ZP & yours: 18AIEPG5476C1ZD.

4. Shipment, Freight and Insurance: Inclusive.

5. Delivery Period: Within 12-weeks from the date of receipt of techno-commercially acceptable P.O. However, you are requested to explore the possibility to reduce the delivery period.

6. Liquidated Damage: LD clause is applicable in this order. Accordingly, if the contractor fails to deliver the materials within 12-weeks, contract price shall reduce by ½ (half) percent of contract value per week subject to maximum of 10(Ten) percent of the contract value.

7. Settlement of Disputes and Arbitration: In case of any dispute concerning this Order, both the supplier and NEEPCO shall try to settle the same amicably through mutual discussion/negotiation. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and Conciliation. Place of arbitration shall be within Assam. Arbitrator shall be appointed by Chairman & Managing Director, NEEPCO Limited and for that this contract shall be interpreted in accordance with the laws of India.

8. CONTRACT PERFORMANCE GUARANTEE (CPG) or SD: Supplier shall have to furnish bank guarantee @3% of the Contract value of supply & services. The B.G. shall valid till the expiry of warranty period. The contractor shall at his/her own cost get the validity period extension of Bank Guarantee furnished by him/her till the completion of warranty period. Otherwise, SD shall be deducted to cover-up warranty period.

9. Mode of Transportation: The supplier shall deliver the materials to The Consignee at AGBPS, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin-786191 by a reputed transporter on Freight paid basis.

10. Warranty: The system supplied by us will be covered for standard warranty clauses for 18 months from the date of dispatch and 12 months from the date of commissioning whichever is earlier.

11. Consignee: The DGM(E/M), Material Management Wing(MMW), AGBPS, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin-786191, Ph-(0374) 2825411.

12. Delivery destination: - Assam Gas Based Power Station(AGBPS), NEEPCO Ltd, Bokuloni, District: Dibrugarh (ASSAM), PIN: 7866191.

13. Boarding, lodging and local conveyance from nearest Air/Rail hub for the engineer and technicians at site will be provided by NEEPCO free of cost.

Kindly convey your acceptance of this P.O.

Thanking you.

Your faithfully,

GM (E/M), C&I wing
AGBPS, NEEPCO Ltd, Bokuloni,
Dibrugarh, Assam.

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बोरदुलिया, जिला- डिब्रूगढ़, असम, पिन - ७८६ १७१

North Eastern Electric Power Corporation Ltd.
(A Govt.of India Enterprise)
www.neepco.gov.in
ASSAM GAS BASED POWER PLANT
BORDULIA, DIST. DIBRUGARH, ASSAM, PIN - 786 171

NO: NEEPCO/AGBPS/C&I/T-09/2022-23/ 594 - 598 Dtd 28/3/2022.

1) The HOP, AGBPS, NEEPCO Ltd for favour of information please. This has your kind approval through FLM dated 11/3/2022.
2) The GM (Fin), AGBPS, NEEPCO Ltd for necessary action please
3) The DGM (E/M), MMW, AGBPS, NEEPCO Ltd for necessary action please.
4) The DGM (E/M), Vigilance, AGBPS, NEEPCO Ltd for information please.
5) T-09/Guard file.

GM (E/M), C&I wing
AGBPS, NEEPCO Ltd.

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SL NO: 07 (2022-23)

EMS (ABT) MAGN SYSTEM

Life Is On | Schneider Electric

Ref No: SEI/NEEPCO/ABT/UPGRD

Date: 12-06-2021

To,
North Eastern Electric Power Corporation Limited
AGBP
Bokuloni Chariali
Dullajan, Dibrugrah, Assam
Pin: 786 191

Attn: Mr. D. Sharma
DGM (E/M)

Subject: Upgradation of PME Software Installed for ABT Management at your Plant

Dear Sir,

This has reference to the PME Software Installed at your plant towards the ABT Management System. Please note that the installed PME software version is 8.0 which is functioning on Server 2012 Operating Platform . M/s Microsoft already declared end of life for Server 2012 software and only providing extended end of support. Our PME software is also upgraded to PME 2020 version to make it compatible with latest generation Server Hardware and Software.

In the present situation we sincerely request you to upgraded the existing server along with PME software to keep the system operational.

Please feel free to communicate for any other clarification on above.

For,
SCHNEIDER ELECTRIC INDIA PVT. LTD.

SCHNEIDER ELECTRIC INDIA PVT. LTD.

Debmalya Dutta
AGM (Sales)
Mob: 9831476041

Schneider Electric India Private Limited
Room No. 406, 4th Floor, Orion Tower, Opposite Pibco Here, Christain Basti, Guwahati - 781005, INDIA
www.schneider-electric.co.in

Regd. Office : Plot No. B-12, Ground Floor, Rewari Line, Mayapuri Industrial Estate, Phase - I,New Delhi - 110 064, India.
Tel : 91 11 30189530

SL NO: 07 (2022-23)

EMS (ABT) MAGN SYSTEM

Life Is On | Schneider Electric

Ref No: SEI/NEEPCO/ABT/UPGRD

Date: 12-06-2021

To,
North Eastern Electric Power Corporation Limited
AGBP
Bokuloni Chariali
Dullajan, Dibrugrah, Assam
Pin: 786 191

Attn: Mr. D. Sharma
DGM (E/M)

Subject: Upgradation of PME Software Installed for ABT Management at your Plant

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SCHNEIDER ELECTRIC INDIA PVT. LTD.

Debmalya Dutta
AGM (Sales)
Mob: 9831476041

Schneider Electric India Private Limited
Room No. 408, 4th Floor, Orion Tower, Opposite Pltco Hero, Christain Basti, Guwahati - 781005. INDIA
www.schneider-electric.co.in

Regd. Office : Plot No. B-12, Ground Floor, Rewari Line, Mayapuri Industrial Estate, Phase - I,New Delhi - 110 064, India.
Tel : 91 11 30189600

NO: NEEPCO/AGBP/HOP/2021-22/W-11(B)/3600000 /1 Dt. 23/7/2021

05,91,70,000·00
GST@18% 01,06,50,600·00
06,98,20,600·00
R/o : 07,00,00,000/-

To

M/S ABB India Ltd,
1A Building, Plot No. 4A, 5 & 6,
Peenya Industrial Area,
Peenya 2nd Phase, Bangalore,
Karnataka-560058, India.
GSTIN Registration No (KARNATAKA): 29AAACA3834B1Z4

Kind Att: - Mr. Rajesh Raina Director (Service Sales)/Mr. Sudipta Sarkar, (Sales Manager)

SUB: UPGRADATION OF DCS SYSTEM OF MODULE-1 & GOVERNOR OF STG1, AGBP, NEEPCO Ltd.

Our Ref:
1) NEEPCO/AGBP/C&I/T-52/2020-21/23 15/06/2020.
2) NEEPCO/AGBP/C&I/T-52/2020-21/37 27/06/2020.
3) NEEPCO/AGBP/C&I/T-52/2020-21/ 10/12/2020.

M/S ABB's ref:
1) Offer: IAPG.RE.19. Firm.00307 Dt. 17.06.2021.
2) Clarification dtd 21/7/2020.
3) Letter dtd 08/07/2020.
4) E-mail dtd 11th January,2021.

Dear Sir,

The Corporation is pleased to place this Purchase Order for the UPGRADATION OF DCS SYSTEM OF MODULE-1 & GOVERNOR SYSTEM OF STG1, AGBP, NEEPCO Ltd in reference to the above. Scope of order shall be Engineering, Supply of materials as per BOM (Annexture-1), Supervision of installation & Commissioning of HMI, Upgradation of DCS Controller of module-1 and Governor System of Steam Turbine-1.

Terms & conditions:
1. Price Basis: - Price is FOR, AGBP basis and are as below.

Sl	Item description	Unit Price (Rs)	Qty	Amt in (Rs)
1	Supply of materials for i) DCS Controller & IOs ii) 800xA HMI system iii) Governor up-gradation (Skid, Controller etc.)	5,46,31,500.00	01-sets	5,46,31,500.00
2	Supply of Mandatory Spares	24,31,000.00	01-sets	24,31,000.00

3	F&F, P&I		6,00,000.00
-	Total of Supply		5,76,62,500.00
Rs. 5, 76, 62,500/ (Rupees Five Crore. Seventy-six lakh and Sixty-two thousand and Five hundred) only.			
4	Supervision of installation & Commissioning of the system.	15,07,500.00	15,07,500.00
Rs. 15, 07,500/- (Rupees Fifteen lakh, Seven thousand and Five Hundred) only.			

2. **Payment terms**: -

i) 65% of the value of supply with 100% taxes shall be paid against dispatch documents through bank.

ii) 25% of the supply value shall be released within 15 days of receipt of the material at site.

iii) Balance 10% of the supply portion shall be released within 15 days of commissioning. In case commissioning is delayed beyond ninety days for the reasons not attributable to ABB, the amount shall be released against submission of a Bank Guarantee of equal amount. Validity of BG shall be for a period of 3 months + 3 months claim period.

iv) 100% payment for mandatory spares shall be released within 30 days of receipt of the material at site.

v) 100% payment against Services shall be released within 30 days of completion of the commissioning.

3. **Taxes**: GST @ 18% and other taxes as applicable shall be paid extra by NEEPCO at actual. **Our GST No:** 18AAACN9991J3ZP. **GST No of ABB:** 29AAACA3834B1Z4.

4. **Shipment, Freight & Insurance**: Your supply Price is as per price schedule.

5. **Delivery Period**: The material shall be delivered within 25(twenty-five) weeks from the date of techno-commercially accepted P.O. The date of dispatch of the materials from the supplier's works will be considered as date of delivery. However, you are requested to supply the materials within 31st Dec'2021 for completion of the work within this fiscal year.

6. **Mode of Transportation**: You are responsible for the safe transportation of the materials to AGBP, NEEPCO site on freight paid basis.

7. **Services**: Intimation of readiness of site shall be conveyed and supplier shall complete the Installation, Commissioning and testing within the stipulated time.

8. **Warranty**: 18 months from the date of commissioning or 24 months from the date of supply whichever is earlier.

9. **Fitment**: M/S ABB must ensure that materials supplied are suitably fit for Up- gradation of existing system of AGBP, NEEPCO Ltd. In case of any mismatch, the same must be replaced by M/S ABB at free of cost.

10. **LD clause**: NEEPCO's Standard LD clause is applicable. Accordingly contact price shall reduce by ½ (half) percent per week for delay in delivery of the material(s) subject to maximum of 10 (Ten) percent of the contract value.

11. CPBG/SD: CPBG @ 3% of total contract value shall be submitted by the supplier.

12. **Force Majeure Condition:** Neither party shall be liable for any loss, damage, failure or delay in performing its obligations under the contact to the extent directly or indirectly caused by or arising from an event of force majeure, which shall include but not be limited to acts of God, acts of Governmental authorities, earth quakes, strikes, fire, war, flood, epidemics, civil unrest, riots or other causes beyond its reasonable controls. The time lines shall be extended for period equal to the time lost by reason of delay plus such additional time as may be reasonably necessary to overcome the effect of the delay.

13. **Limitation of Liability :** Notwithstanding anything to the contrary contained in the order(i) neither party shall be liable to the other for any indirect or consequential losses or damages or any loss of profits , loss production , loss of revenue or loss of use ; and (ii) the maximum aggregate liability of the ABB/Contractor, for any/all claims arising out of or in connection with the order, shall in no event exceed 100% of the order price of payments received under the purchase order, whichever is lower.

14. **Exclusion of Indirect & Consequential Losses:** Notwithstanding anything to the contrary herein, at law or otherwise, neither you nor us shall be liable for any special, indirect or consequential damages or losses, such as, but not limited to loss of revenue, loss of use, loss of production, loss of power, cost of capital, loss of savings, cost of replacement power or costs connected with interruption of operation.

15. **COVID-19:** In India, according to the Office Memorandum on Force Majeure Clause ("FMC") issued by Ministry of Finance No.F.18/4/2020-PPD dt. Feb 19, 2020 disruption of supply chains due to spread of corona virus in China or any other country will be covered in the Force Majeure Clause. Further in March, 2020 Government of India has declared Covid19 as a "notified disaster" and World Health Organization (WHO) has categorized Covid19 as a pandemic situation. The Parties [i.e. Purchaser and Seller] are aware of the current outbreak of the Covid19 worldwide which impacts or may impact the normal business and execution of this Contract. The Parties agree that ABB is entitled to any potential cost compensation, time extension, or other reasonably required adjustments in the Contract, if any consequences, whether directly or indirectly resulting out of, or in connection with the Covid19 outbreak, lead to delays in delivery of goods or provision of services, supplies or otherwise affect ABB's contractual obligations and/or duties.

16. **Arbitration**: In case of any breach of contract/disputes/differences arising under or in connection with this agreement, which cannot be settled by friendly negotiation and agreement amongst the parties, this offer is subjected to the standard arbitration clause in accordance with the provisions of the arbitration and conciliation act 1996. The venue of arbitration proceedings shall be mutually agreed place in India.

17. **Pre-dispatch Inspection and Testing**: Testing of the materials as per relevant standard shall be carried at contractor's works. The tests shall

be performed in presence of representative of NEEPCO. For deputation of an authorized representative for inspection and to witness such tests, advance intimation shall be given to the Corporation. The test certificates are to be forwarded for approval of the purchaser. However, witness of tests or approval of tests reports shall not absolve the supplier from its responsibility towards satisfactory fulfillment of contractual obligation.

18. **Consignee:** - The DGM (E/M), MMW, AGBP, NEEPCO Ltd, Bokuloni, District: Dibrugarh (ASSAM), PIN: 786 191.

19. **Delivery destination:** Assam Gas Based Power Plant (AGBP), NEEPCO Ltd, Bokuloni, District: Dibrugarh (ASSAM), PIN: 786 191.

20. **Billing destination:** The DGM (E/M), C&I/MMW, AGBP, NEEPCO Ltd, Bokuloni, District: Dibrugarh (ASSAM), PIN: 786 191

21. **Paying authority**: The DGM (F&A), AGBP, NEEPCO Ltd, Bokuloni, District: Dibrugarh (ASSAM), PIN: 786 191.

Kindly convey your acceptance of this P.O.

Thanking you.

Yours truly,

DGM (E/M),C&I
For and on behalf of CGM & Head of the Plant, AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam.

NO: NEEPCO/AGBP/HOP/2021-22/W-11(B)/134-41 Dtd. 23/7/2021.

1) The GM(Tech), O/O the CMD, NEEPCO Ltd, Shillong for kind appraisal of CMD please. This has reference to his kind approval dtd 21/7/2021 conveyed vide e-mail of ED(O&M) dated 21/07/2021.
2) The GM(Tech), O/O the Director(T), NEEPCO Ltd, Shillong for kind appraisal of Director(T) please.
3) The ED (O&M), NEEPCO Ltd, Shillong for favour of kind information please.
4) The DGM (E/M), C&I, AGBP, NEEPCO Ltd for necessary action please.
5) The DGM (E/M), MMW, AGBP, NEEPCO Ltd for necessary action please.
6) The DGM (Fin), AGBP, NEEPCO Ltd for for necessary action please.
7) The DGM (E/M), Vigilance, AGBP, NEEPCO Ltd for information please.
8) File: -W11 (B).

DGM (E/M),C&I
For and on behalf of CGM & Head of the Plant, AGBP, NEEPCO Ltd,

Annexture-1

Ref: NEEPCO/AGBP/HOP/2021-22/W-11(B)/3600000 /133 Dt. 23/7/2021.

Schedule of Items & Prices

Sl	Item description	Unit Price (Rs)	Qty	Amt in (Rs)
1	Supply of materials for DCS Controller & IOs 800xA HMI system Governor up-gradation (Skid, Controller etc.)	5,46,31,500.00	01-sets	5,46,31,500.00

800xA HMI system:

S/N	Description	Make/Model	Brief Specification	Qty
1	System Server	DELL/HP/IBM	Intel Xeon Single Processor, Silver 4112, 2 GHz, 4C/8T | 2x8GB RDIMM, DDR4, ECC RAM | 3x 600GB SAS 10K 2.5" HDD |RAID| DVD RW Slim Drive | USB, keyboard, Mouse| 6 x1Gbps NIC | Windows Server 2019 Std	1
2	Spare Server	DELL/HP/IBM	Intel Xeon Single Processor, Silver 4112, 2GHz, 4C/8T | 2x8GB RDIMM, DDR4 ECC RAM | 3x 600GB SAS 10K 2.5" HDD | RAID| DVD RW Slim Drive | USB Keyboard, Mouse| 6 x1Gbps NIC | Windows Server 2019 Std	1
3	Operator Station	DELL/HP/IBM	Intel® Xeon® Processor E3-1225 v5,2. Ghz, Turbo 8MB, 4C | 16 GB non-ECC, DDR4 Memory | P400, 2 GB Graphics, Card, | 2x 1Gbps network port | USB, Keyboard & Mouse | DVD RW drive | 1TB, Sata 3.5" HDD 7200RPM | Windows 10, IoT Enterprise LTSC 2019	3
4	Monitor	DELL P2419h	24" LED Monitor | Optimal Resolution: 1920 x 1080 at 60 Hz Contrast Ratio: 1000: 1 (typical), Dynamic Contrast Ratio : 2 Million:1 (Max) | 1 Digital Visual Interface connectors (DVI-D) with HDCP, 1 Video Graphics Array (VGA)	5
5	MS office 2019 Pro-Plus	MS office 2019 Pro-Plus	MS Office 2019 Professional Plus Edition 1	1
6	MS office	MS office 2019	MS Office 2019 Home & Business Edition	3

	2019 H&B	H&B		
7	Antivirus	MacAfee 8.8 i	Mcafee Enterprise Edition 8.8i	4
8	CAT 6 Cables	Besnet/D-link	CAT 6 UTP cables I 23AWG	500 mtr
9	N/W Switch	Cisco/Eq	16 Port	01
10	System Software	ABB	1 Server 3 Operator Workplaces	Lot
11	USB Dongle	ABB HW Dongle	USB key for licensing	1
12	Laptop	Dell/HP	For Engineering & Diagnosis	1

DCS Controller & IOs:

S/N	Make	DCS Controller & IOs Description	No. of P13 Modules
1	ABB	PM866AK02 Redundant Processor Unit	6 (pair)x2= 12
2	ABB	DI810 Digital Input 24V 16 ch	312
3	ABB	DO810 Digital Output 24V 16 ch	48
4	ABB	AI810 Analog Input 8 ch	66
5	ABB	AI820 Analog Input 4 ch	12
6	ABB	AO820 Analog Output 4 ch	13
7	ABB	AO810V2 Analog Output 8 ch	42
8	ABB	AI830A Analog input RTD 8 ch Pt100, Ni100/120, Cu10, R.	18
9	ABB	AI835A Thermocouple/mV Input 8 ch	24
10	ABB	CI854BK01 PROFIBUS-DP/V1 interface	12
11	ABB	CI840A PROFIBUS DP-V1 Interface	96
12	ABB	SD831 Power Supply, 3A, Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 3A.	12
13	ABB	SD834 Power Supply, 20A, Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 20A.	12
14	ABB	SS832 Power Voting Unit, Input d.c. 24 V. Dual 24 V to single 24 V, 2x10A.	18
15	ABB	AS800 Hardware with accessories for auto Synchronization.	1 Lot

Governor up-gradation (Skid, Controller etc.)

Sl. No	Item description for Governor up gradation:	UOM	Qty
	Steam Turbine Control System		
1.1	CPM810 Common Processor Module	No	2
1.2	TPM810 Turbine Protection Module	No	2
1.3	VPM810 Valve Positioner Module	No	2
1.4	TBU810 Termination Base Unit 2	No	2
1.5	STM810 Serial Interface Module	No	2
1.6	ROM830 - ROM810V2 Cable, 2 Feet	No	2

1.7	Analog Input / Output Module	No	1 Lot
1.8	Digital Input / output Module	No	1 Lot
2	**Governing Hydraulic Skid**	No	1
2.1	Base frame 1400 x 1200 mm (Approx) MS	No	1
2.2	2.2 Duplex oil filter 10 Micron	No	1
2.3	Pressure gauge 100 mm dial, Glycerin filled	No	7
2.4	I/H Converter	No	1
2.5	Trip block with 2 out of 3 voting logic	No	1
2.6	Pilot operated valve for Turbine trip	No	1
2.7	Solenoid operated direction valve for starting oil & trip oil	No	2
2.8	Solenoid operated direction valve for switch oil & QCNRV	No	2
2.9	Flow control valve for starting oil	No	1
2.10	Flushing plate for all valves within skid	No	5
2.11	Manifold Block	No	1
2.12	Main isolation valve	No	1
2.13	Bladder accumulator	No	1
2.14	Pressure switch for start oil, trip oil & trip oil header	No	3
2.15	SS 304 pipe & fitting for interconnection	No	1
2.16	SS 304 pipes for external connection	Mtr	10
2.17	Impulse tubes and needle valves for instrument	Mtr	10
2.18	Painting & finishing	Lot	1
2.19	Other skid accessories	Lot	1
3	System cabinets	No	1
4	Relays and accessories	Lot	1
5	Power Supplies	Lot	1

2	Supply of Mandatory Spares	2,431,000.00	01-sets	2,431,000.00

Mandatory Spares:

S/N	Model/Part No	Description	Qty
1	PM866AK01	PM866AK01 Processor Unit	1
2	CI854BK01	CI854BK01 PROFIBUS-DP/V1 interface	1
3	CI840A	CI840A PROFIBUS DP-V1 Interface	4
4	AI810	AI810 Analog Input 8 ch	2
5	AI820	AI820 Analog Input 4 ch	1
6	AI830A	AI830A Analog input RTD 8 ch	1
7	AI835A	AI835A Thermocouple/mV Input 8 ch	1
8	AO810V2	AO810V2 Analog Output 8 ch	3
9	AO820	AO820 Analog Output 4 ch	1
10	DI810	DI810 Digital Input 24V 16 ch	4
11	DO810	DO810 Digital Output 24V 16 ch	2
12	SD831	SD831 Power Supply, 3A	1
13	SD834	SD834 Power Supply, 20A	1
14	SS832	SS832 Power Voting Unit	1

ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited
(A Government of India Undertaking)
ELECTRONICS DIVISION
P.B. No. 2606, Mysore Road, Bangalore - 560 026.
An ISO 9001, ISO 14001 & OHSAS 18001 Company

Grams : BHELRONICS
Fax : 080 26740132
PHONE : 26998
EPABX, NO.1

REF: CE/SM/NEEPCO/SB
DATE: 15/07/2006

Manager(E)
C&I Division
Assam Gas Based Power Plant
NEEPCO Limited
PO:Bokuloni,Chariali-786191
Dist:Dibrugarh ASSAM

SL NO: 08 (2022-23)

DCS UPGRADE MODULE #01

Dear Sir,

Sub: Regarding spare parts support for Procontrol system.
Ref: 1.Our letter CE/SM/PROCONTROL/GAS dated 23.05.2006
2. Your letter no AGBP/NEEPCO/M(E)/C&I/T-52/2006-07/99 dated 12.06.2006

This refers to our letter cited above wherein we have highlighted the necessity of stocking of Procontrol modules and the reply received from your end. You may like to note the following.

As already informed we are facing lot of constraints in sourcing the critical imported components required for our Procontrol modules. Obsolescence rate of these critical components are very high and also quality of these components are deteriorating. Seen in this background we are of the opinion that we may be able to support the Procontrol system supplied by us in both spares and services for another five years beyond which it will be based on the availability of components for repair only. We donot intend to manufacture these modules beyond that period for the reasons already elaborated by us.

In view of this we request once again to consolidate your spares requirements and the firm enquiry may please be sent to us for our urgent submission of offer. We apprehend that any delay may have additional commercial implications as we foresee an increase in the rates of our Procontrol modules in the near future.

We are ready to discuss across the table any technical and commercial queries and request you to convey your convenient dates for planning our visit to your works.

Thanking you,

Yours faithfully,
For BHEL

ಎಸ್. ಭಟ್ಟಾಚಾರ್ಯ, ಜಿ.ಎಂ.ಸ್ಥ/ಜಿ.ಎಂ. - ಸಿ.ಇ-ಎಸ್.ಎಂ.
एस. भट्टाचार्य, जी.एम./सी.ई-एस.एम.
S. BHATTACHARYA, GDGM/CE-SM
BEL ROAD BANGALORE-560 013

Regd. OFFICE : BHEL House, Siri Fort, New Delhi - 110 049
Website : www.bhel.com

नॉर्थ इस्टर्न इलेक्ट्रिक पावर कार्पोरेशन लिमिटेड
(भारत सरकार का संस्थान)
असम गैस आधारित शक्ति संयंत्र
बकुलनि, जिला-डिब्रुगढ़, आसाम, पिन - ७८६ १९१

North Eastern Electric Power Corporation Ltd
(A Govt. of India Enterprise)
www.neepco.gov
ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 1
P: 0374-2825216, EPABX 2825207 / 2825208, FAX: 0374-2525349 / 2823
E-mail : agbpgaeo@sancharnet.in, neepgbp@sancharnet.i

T-52

NO:AGBP/NEEPCO/M(E)/C&I/T-32/2006-07/114 - 116 Dtd. 12.06.06

To,
The AGM (PMC & SM),
Bharat Heavy Electricals Limited,
P.B.No.2606, Mysore Road,
Bangalorre-560026

Kind Attention: Mr.R.S.G.Krishnan.

Sub: - **Regarding Spare Parts Support for Procontrol System.**
Ref -CE:SM:PROCONTROL:GAS Dtd.23.05.06.

With reference to your letter as above, regarding up gradation/replacement of Procontrol-P13 system by latest technology system, developed by USA and restriction of the existing DDC controller, Procontrol-P13 only upto spares support for Customer, which will also be reduced drasbcally in due course because of some unavoidable implications.

In connection with this, we would like to inform you that the planning for spare requirements for Procontrol-P13 for our plant is under progress.

Anyway, we still would like to draw your kind attention regarding clarification on continuation of AMC (Annual Maintenance Contract) of electronic modules related to Procontrol-P13, by BHEL, Electronics Division, Bangalore, that -upto what extent, you can support AMC system of AGBP, NEEPCO even after total cut-off of production/manufacturing of Spare modules, in phase manner, starting from the date of obsolete of production and upto the extend of stoppage of supply of DDC spare modules.

In view of above, and as per telephonic discussion had with Mr.Ashish Mandal, Mgr. (SSBG-ER), on 10th of June'2006, you are requested to carryout any kind of Presentation related to the upgraded version of Procontrol and availability of spares and repairing works thereon, in our AGBP, NEEPCO Ltd., Bokuloni Site, with a forward copy of information to **Sr.Mgr. (E/M), E.E.C., AGBP, NEEPCO Ltd., Bokuloni, ASSAM**, before visiting this site.

Please also note that -we will place our planning of spares requirement only after getting your good response of our enquiry and any further advice related to this matter.

Thanking you.

Yours Faithfully,

Manager (E), C&I Division,
AGBP, NEEPCO Ltd.,
Bokuloni, ASSAM.

C.C.to: **Mr.Ashish Mandal, Manager, (SSBG-ER) for information please.**

URGENT

1963
19.7.06

NOTE SHEET

Sub:- Spare parts support for Procontrol System

As BHEL has entered into a TCA with M/S Metso Automation, USA for production of latest C&I technology, they have discontinued from offering Procontrol P13 to customer as a part of main equipment .Presently BHEL has restricted to supply the P13 Modules only to sapre parts requirement of customer and tappering down the productions of P13 modules drastically.

In view of the above BHEL has requested to prepare a consolided list of spare parts as per the site requirement and place an offer to BHEL on or before end of 1st Quarter , 2006-07 and accordingly forwarded a recommended spare parts list to this offoice which is enclosed herewith for further necessary action at your end .

Encl: As stated above

23/6/06

HOP, AGBPP **ED(O&M)**

U.O No:- NEEPCO/ED(O&M)/ AGBPP/2/330 **Dated. 23/06/2006**

Please ens the Concerned Section to furnish the details as required

Sr(E) CKP.

07/07/06

M(C&I)

For n/c at Sl.no.

7/7/06.

भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Limited

(A Government of India Undertaking)

ELECTRONICS DIVISION

P.B. No. 2606, Mysore Road, Bangalore - 560 026.

An ISO 9001, ISO 14001 & OHSAS 18001 Company

EPABX NO:

Sri B. Guruswamy SM(E) pl speed & process 6/6

REF: CE:SM:PROCONTROL:GAS

DATE: 23/05/2006

SHRI B K SAIKIA
EXECUTIVE DIRECTOR/O&M
NEEPCO
BROOKELAND
LOWER NEW COLONY
LAITUMKHRAH, PB NO:79
SHILLONG-793003

Dear Sir,

SUB: **Spare Parts support for Procontrol System.**

As a part of our continuous drive to offer better products, we have entered into a TCA with M/s Metso Automation, USA for production of latest technology C&I System and this system is being offered to all our customers. As a direct result, the earlier system namely, Procontrol P13 is withdrawn by us from our offering to customers as part of main equipment. Supply of Procontrol P13 modules are restricted to spare parts requirement from customer where P13 System is in use. Due to the above, production of P13 module has reduced drastically with the following implications.

2. Component prices (both indigenous & imported) have increased steeply.
2. Long lead time for supply of components.
3. MOQ restriction on us by our vendor.
4. Due to obsolescence of components, new components have to be identified & modules have to be redesigned.

Because of the above, our manufacturing cost of modules have increased enormously and severely affecting the delivery cycle for supply.

In view of the above, we advise customers to plan their spares requirements and consolidated requirements may please be given to us on or before End of 1st quarter 2006-07.

In the absence of any consolidated requirement from customers and subsequent bulk production, we are of the opinion that prices of modules may increase tremendously for the reasons cited already.

With regards.

(R S G KRISHNAN)
AGM(PMC & SM)

Forwarded to HOP A&BW for favour of kind perusal and necessary please.

Regd. OFFICE : BHEL House, Siri Fort, New Delhi - 110 049
Website : www.bhel.com

NO: NEEPCO/AGBP/C&I/T-13/2021-22/360000 52/366 Dtd. 28/06/2021.

To

M/S Sonepar India Pvt. Ltd. (100-112)
Ecospace Business Park
Block 4B, Unit 503, 5Th Floor,
Newtown Rajarhat, Kolkata.
PIN -700156, India.

SUB: UPGRADATION OF PLC BASED AUTOMATION SYSTEM OF DM PLANT, AGBP

Your offer ref: SONEPAR/2021/WB/RA/Q17/Rev5 dtd 10.6.2021.

Dear Sir,

The Corporation is pleased to place this Purchase Order for Upgradation of PLC based automation system of DM-plant, AGBP by way of Supply, Installation & commissioning of new hardware's as per BOQ.

BOQ, Prices, terms & conditions of the P.O. are as below.

Description (HSN Code/SAC Code)	Unit Price	Qty	Total Amt (Rs)
A) Supply of PLC hardware and software, Rockwell-make and other accessories as per BOQ // (90328990)	19,50,000.00	01 lot	19,50,000.00
Total of supply excluding taxes			**19,50,000.00**
➢ **Rs. 19,50,000/-(Rupees Nineteen Lakh and Fifty-thousand) only.**			
B) Installation, commissioning, and engineering Services of PLC system// (998732)	3,00,000.00		3,00,000.00
Total of services excluding taxes			**3,00,000.00**
➢ **Rs. 3,00,000/-(Rupees Three Lakh) only.**			

1. (a) Price Basis: The prices as shown above are FOR NEEPCO, Kathalguri basis including P&F but excluding taxes.
   (b) Prices of services as shown above is also excluding taxes
2. Packing charge: Above prices are inclusive of P&F charges.
3. Taxes: GST @18% shall be paid by NEEPCO against GST invoice. Our GST No: 18AAACN9991J3ZP and GST no of supplier: 19AACCE2411Q1ZH.
4. Shipment, Freight & Insurance: Transportation charge & Transit Insurance are inclusive in the above prices.
5. Payment terms: (a) Supply: 90% payment including taxes against dispatch documents through bank and rest 10% after installation and commissioning or 3 months from the date supply whichever is earlier. Bank charges in total are to the account of supplier. Payment shall be made against submission of i) Tax

invoices in triplicate, ii) Delivery challan, iii) Guaranty/warranty certificate as per P.O., iv) BG/SD in original, v) Bank details in RTGS/NEFT mandate format, etc.

(b) **Services**: 100% after successful Installation & Commissioning of the system against submission of service invoices in triplicare and Commissioning report etc.

6. **Delivery Period**: Seller shall deliver the Goods within 14 weeks from the date of receipt of technically and commercially clear purchase order. The date of dispatch of the materials from the supplier's works shall be considered as date of delivery. However, you are requested to explore possibilities to reduce delivery period to the extent possible.
7. The supplier shall deliver the materials to The Consignee at AGBP, NEEPCO, Bokuloni, Assam, Pin-786191 by reputed transporter on Freight paid basis.
8. **Warranty**: 12 months from the date of commissioning or 18 months from date of supply whichever is earlier.
9. Liquidated Damage: LD clause is applicable in this order. Accordingly, if the contractor fails to deliver all the materials within 14-weeks, contract price shall reduce by ½ (half) percent per week subject to maximum of 5 (five) percent of the Order value. However the force majeure clause shall be considered.
10. CONTRACT PERFORMANCE GUARANTEE (CPG) or SD: Supplier shall have to furnish bank guarantee @3% of the Contract value of supply & services. The B.G. shall valid till the expiry of warranty period. The contractor shall at his/her own cost get the validity period extension of Bank Guarantee furnished by him/her till the completion of warranty period, otherwise SD @3% shall be deducted from the payable amount.
11. **Settlement of Disputes and Arbitration**: In case of any dispute concerning this Order, both the supplier and NEEPCO shall try to settle the same amicably through mutual discussion/negotiation. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and Conciliation. Place of arbitration shall be within Assam. Arbitrator shall be appointed by Chairman & Managing Director, NEEPCO Limited and for that this contract shall be interpreted in accordance with the laws of India.
12. **Consignee**: The DGM(E/M), Material Management Wing(MMW), AGBP, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin-786191, Ph-(0374) 2825411.

13) **Delivery destination**: Assam Gas Based Power Plant (AGBP), NEEPCO Ltd, Bokuloni, District: Dibrugarh (ASSAM), PIN: 7866191,

Kindly convey your acceptance of this P.O.

Thanking you.

Your faithfully,

DGM (E/M), C&I wing
AGBP, NEEPCO Ltd, Bokuloni,
Dibrugarh, Assam.

Memo No: NEEPCO/AGBP/C&I/T-13/2021-22/367-372 Dtd. 28/06/2021.

1) The HOP, AGBP, NEEPCO Ltd for favour of information pl. This has your kind approval under U.O. No: HOP/FLM dtd.25/6/2021.
2) The GM (E/M), AGBP, NEEPCO Ltd for favour of information please.
3) The DGM (E/M), MMW, AGBP, NEEPCO Ltd for necessary action please.
4) The DGM (Fin), AGBP, NEEPCO Ltd for necessary action please.
5) The DGM (E/M), Vigilance, AGBP, NEEPCO Ltd for information please.
6) T-13/Guard file.

DGM (E/M), C&I wing
AGBP, NEEPCO Ltd.

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A) Supply → ₹ 19,50,000.00
B) Services → ₹ 3,00,000.00

₹ 22,50,000.00
GTS @ 18 ₹ 4,05,000.00

26,55,000.00

Rockwell Automation

SL NO-09 (2022-23)

Date: 25/07/2020

DM PLANT PLC UPGRADE

North Eastern Electric Power Corporation Limited
Bokulani, Dibrugarh, Assam

Kind Attn. Mr. Dipak Sarma.

Sub:. Notification of installed SLC system

Rockwell Automation appreciates your on-going investment in SLC-500 Series processors & I/O products. For more than three decades, we have expanded the product offering and added features to meet your needs. Along with legendary reliability and quality, our continued investment in our portfolio of products is why manufacturers have selected SLC-500 Series processors & I/O products to run their industrial processes.

Currently, the SLC-500 Series processors & its I/O products lines consist of several hundred products. It was our intent to continue to offer every product for as long as practical. Over time, individual products are getting inactivated due to component obsolescence, demand, manufacturing or technology issues.

The above Products are getting discontinued for the reasons stated above. As such these products became very costlier. Therefore, at this time, all current users of SLC-500 Series processors & I/O products should have a migration plan to avoid the plant breakdown due to non-availability of spares and service.

We introduced the Logix control platform to expand system capabilities and performance that now includes fully integrated motion, process, safety and drive control. To allow you to quickly and easily migrate, Rockwell Automation has developed a migration strategy from SLC-500 Series processors & I/O products to a Logix-based control system to help manage risk, budget, and machine availability.

Our Authorised Distributor M/s Sonepar India shall provide you with methodology how a customer can migrate to Logix in a way that fit your needs.

We hope that this correspondence provides you with understanding of Rockwell Automation's commitment to providing quality automation products and our continued commitment to the SLC-500 Series processors & I/O products users.

Thanking You

For Rockwell Automation India Pvt. Ltd

Ravi Modi

Ravi Modi

Channel Sales

Mob: 8334937774

P-150

No. NEEPCO/AGBP/HOP/2019-20/W-8(A)/537 Dated 12/02/2020

To,

M/S Mitsubishi Corporation,
Power Systems International Office,
New Energy and Power Generation Division,
5-1, Marunouchi, 2-Chome, Chiyoda-Ku,
Tokyo – 100-8086, Japan

Sub: NEEPCO/AGBP – Detailed Order for Technical Advisory Services for Major Overhauling Inspection of MHI make Gas Turbine Unit # 2 (Model No. MW251B).

Ref: 1. Our letter No. NEEPCO/AGBP/GT&Aux /W-25/2018-19/211 Dated 08/03/2019
2. Your offer No. XAF-NEEPCO- 825P7TR Dated 14/08/2019
3. Our E-mail Dated 09/10/2019
4. Your E-mail Dated 11/10/2019
5. Our E-mail Dated 02/12/2019
6. Your E-mail Dated 09/12/2019

Dear Sir,

With reference to above, the Corporation is pleased to place this detailed order for Technical Advisory Services for Major Overhauling Inspection of MHI make Gas Turbine Unit # 2 (Model No. MW251B) of Assam Gas Based Power Plant at your offered rates and as per the following terms and conditions.

1. **Scope:**

Mitsubishi Corporation shall provide NEEPCO AGBP with technical advisory services by deputing required Technical Advisors for Major Overhauling Inspection of MHI make Gas Turbine Unit # 2 (Model No. MW251B).

2. **Price:**

A. **Technical Advisory Services Fees:**

The estimated price for the above referred services is JPY 17,000,030.00 (Japanese Yen Seventeen Million Thirty) only excluding TDS. The above mentioned price is an estimated price which includes supervisory services fees for working days as well as journey periods, overtime fees, travel expenses (air fare) and lodging at New Delhi. The actual price payable shall be calculated based on the following rates:

Sl.	Item	Price (Japanese Yen)
i	Normal working day rate (working hours shall be 8 hours or part thereof)	1,51,100 / man day
ii	Overtime work hourly rate for any hours worked beyond 8 hours per day from Monday to Friday	24,500 / man hour
iii	Normal work hourly rate for Saturday, Sunday & local holidays in India	24,500 / man-hour
iv	Overtime work hourly rate for any hours worked beyond 8 hours per day on Saturday, Sunday & local holidays in India	26,700 / man-hour

The above rates for holidays shall be applicable for the New Year holidays in Japan (i.e. 29th December to 3rd January every year).

The above rates are net receivable amounts and do not include any kind of tax and duties levied in India which are to be paid at actuals by NEEPCO. LC shall be opened for an amount of JPY 20,400,036 which is 120% of the estimated amount of JPY 17,000,030 on receipt of confirmation of acceptance of this order.

B. **Expenses:**

a) Traveling expenses such as airfares (business class for international flights) are invoiced at actual cost.

P-149

b) Lodging is arranged and paid for by the Purchaser to the concerned party.

c) Telephone, Telefax and telex communications are invoiced at actual cost if such costs are paid and borne by the Supervisor(s) during the performance of their duties.

d) Any miscellaneous expenses including food and drink during the stay at site will be reimbursed at actuals against documentary evidence.

3. **Terms of payment:**

Payment shall be made in Japanese Yen by an irrevocable, confirmed and non-restricted Letter of Credit (LC) to be established **for the estimated amount mentioned** above in favour of Mitsubishi Corporation, Tokyo (Attn: ENY/XA-F)) confirmed by a first class bank of Japan, Europe or USA and which shall be payable against presentation of at sight draft accompanied by the following documents, without restriction on negotiating bank with sufficient validity to cover bank negotiation. LC opening charges, confirmation charges and other bank charges in India shall be borne and paid by NEEPCO and bank charges outside India (except LC confirmation charges) shall be borne by Mitsubishi Corporation.

i) Mitsubishi Corporation's detailed invoice
ii) Copies of air tickets
iii) Hotel Invoices
iv) Working time sheet duly signed by NEEPCO

4. **Schedule of Inspection:**

The date for Major Overhauling Inspection of MHI make Gas Turbine Unit # 2 (Model No. MW251B) is scheduled tentatively in June / July, 2020. The exact date will be intimated in due course. Accordingly, your MHI TA must be available at site for commencement of the inspection activities during that period.

5. **Documents:**

Copies of documents shall be forwarded to the ordering authority with copies to the GM (Finance) Corporate Treasury, NEEPCO Ltd., Brook land Compound, Lower New Colony, Shillong – 793003 (Fax No. 0364 – 2228542).

6. **Engineer –In- Charge:**

DGM (E/M) GT& Aux or any other Engineer authorized by Head of Project, AGBP.

Kindly acknowledge receipt and confirm acceptance of this order. The above mentioned LC will be opened immediately on receipt of the confirmation of acceptance of this order.

Thanking you.

Yours faithfully,

12/02/2020

DGM (E/M)
For & on behalf of
General Manager & Head of Project

NIO
Memo No. NEEPCO/AGBP/HOP/2019-20/W-8(A)/538-43 Dated 12/02/2020

Copy to:

1. The D(T), NEEPCO Ltd., Shillong - for kind perusal please. This has reference to his approval Dated 09/01/2020 conveyed vide U.O. No. 946 Dated 10/01/2020 of ED (O&M).
2. The Executive Director (O&M), NEEPCO Ltd., Shillong - for kind perusal please.
3. The GM (Fin) CT, NEEPCO Ltd., Shillong. Enclosed a copy of the approval.
4. The DGM (E/M), GT & Aux, AGBP.
5. The DGM (Fin), AGBP, NEEPCO Ltd., Bokuloni. Enclosed a copy of the approval.
6. The DGM (E/M), Vigilance wing, AGBP, NEEPCO Ltd.

12/02/2020

DGM (E/M)
For & on behalf of
General Manager & Head of Project

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लि
NORTH EASTERN ELECTRIC POWER CORPORATION LTD
(A GOVT OF INDIA ENTERPRISE)
ASSAM GAS BASED POWER PLANT
BOKULONI, DIBRUGARH, ASSAM, 786191
Email: dgmagbpelect@gmail.com

No: NEEPCO/AGBP/O&AWC/T-11(Vol-IV)/2021-22/ 739 Date: 31.03.2022.

To,

M/S Pranjana & Associates,
Thapona Gaon, House No. 08,
Near Ganesh Mandir, Lakhra
Guwahati-781034
Tel: 84748 19701/94351 85783 (M)
E-mail: pranjana_co@rediffmail.com

Sub: - Work Order for Renovation of Existing CO2 Flooding system (Fire Suppressions System) of MHI make Gas Turbine unit # 1, 2, 3 & 4 including supply, erection, testing and commissioning with interlock protection of respective gas turbine units of Assam Gas Based Power Station, NEEPCO Ltd, Bokuloni, Dibrugarh (Assam).

Ref: 1 E-tender no **NEEPCO/AGBP/O&AWC/2021-22/01 dated 25.06.2021**
2 **Corrigendum 1 issued under** Memo no. NEEPCO/AGBP/O&AWC/T-11/2021-22/ 231-36 **dated 29.07.2021.**
3. **Tender ID: 2021_NEEPC_80411_2**
4 Corrigendum 2 issued under Memo no NEEPCO/AGBP/O&AWC/ T-11/ 2021-22/ 297-302 dated 27.08.2021
5 Corrigendum 3 issued under Memo no. NEEPCO/AGBP/O&AWC/ T-11/ 2021-22/ 343-348 dated 09.09.2021
6 This office letter no. NEEPCO/AGBP/O&AW/2021-22/T-11/557 dated 06.01.2022.
7. Your response vide email dated 15.01.2022.
8 E-Auction dated 07.03.2022
9 Your Price Confirmation Letter (Annexure-II of Tender) dated 07.03.2022
10 LOI issued vide letter no **NEEPCO/AGBPS/O&AWC/T-11 (Vol-III)/2021-22/ 723 Dated 19.03.2022.**
11 Your acceptance vide letter dated 28.03.2022

Dear Sirs,

With reference to the above, the Corporation is pleased to place this order on you for Renovation of Existing CO2 Flooding system (Fire Suppressions System) of MHI make Gas Turbine unit # 1, 2, 3 & 4 including supply, erection, testing and commissioning with interlock protection of respective gas turbine units of Assam Gas Based Power Station, NEEPCO Ltd., Bokuloni, Dibrugarh (Assam) as per terms and conditions stated below:

TERMS & CONDITIONS:

A. TECHNICAL:

SCOPE OF WORKS:

Scope of work shall include Renovation, modification & automation, testing and commissioning of CO2 Flooding system in Mitsubishi make Gas Turbine unit # 1, 2, 3 & 4 including interlock protection of respective gas turbine unit. The scope of work shall also include supply of requisite materials for the purpose of renovation/modification & automation of CO2 flooding system and installation, testing and commissioning of the system. Emphasis should be given on modification of the existing system

without any change in existing design aspects of CO2 Flooding system. For renovation, modification & automation, testing and commissioning of CO2 flooding system, only 1 (one) unit will be available at a time. Clearance for next unit will be given after successful commissioning and successful test operation/observation of the 1st unit for a period of 15 (fifteen) days.

a) The following items of the existing system may be reused after thorough inspection & testing.

- CO2 cylinders
- Discharge pipe lines
- Mounting frame of CO2 bank and platform of CO2 bank

The hydro testing of cylinders & associated pipelines, testing of valves are to be done at plant site in presence of Engineer-In-Charge prior to installation/re-installation of the same. In case hydro test of CO_2 cylinder fails, the new cylinder shall be supplied by the Corporation free of cost to the Contractor.

b) **SPARES TO BE SUPPLIED:**

The Spares/Materials of reputed make or as indicated in this order shall be provided by the contractor for normalizing the system.

c) **MODIFICATION OF EXISTING SYSTEM:**

Any modification of the existing system, prior approval of the Project Authority shall be obtained by the Contractor. Existing zone system (drawing attached-Annexure-II) of CO2 path and signal path shall be maintained.

d) **TEST CERTIFICATES:**

The following test certificate shall be submitted along with the bill:

(i) Hydro-Testing Certificate of CO2 Cylinder and its associated pipe lines
(ii) Test certificate of cylinder valve
(iii) Test certificate of flameproof heat detector mentioning the range of detector
(iv) Test certificate of the FRLS cable utilized in CO2 flooding system

e) **INSPECTION AND TEST:**

Upon completion of the various phases of work or at a convenient time during the progress of work, work executed by the Contractor, shall be checked, tested and inspected by the In-Charge, C&I Division or his authorised representative along with Manager (Fire & Safety). Any defects pointed out, shall be corrected by the Contractor at no additional cost to the Corporation.

All checking and testing procedure shall be performed by the Contractor as directed by the In-Charge, C&I Division.

Pre-commissioning test and operation/observation tests shall be performed by the Contractor under the supervision of the In-Charge, C&I Division.

f) **WARRANTY:**

The work executed shall be warranted for a period of two years from the date of handing over the system. Any defect/problem arises during the period of warranty shall be replaced or repaired by the Contractor at his own cost within a period of 7 (seven) days failing which the security deposit shall be forfeited.

B. COMMERCIAL:

1.0 PRICE BASIS:

The price shall remain firm during the currency of the contract. The lump sum contract price for the entire Scope of work shall be **Rs. 1,10, 80,760.00** (Rupees one crore ten lakhs eighty thousand seven hundred and sixty) only including GST @18%. The Price is inclusive of the prices of all spares to be supplied/repaired, site visit, service charge and all other applicable charges, if any, in all respect for completion of entire scope of work.

SCHEDULE OF SCOPE OF WORK AND PRICE IS FURNISHED BELOW:

Sl. No.	Description of Work	Amount (Rs)	GST @ 18% (Rs)	Total Amount (Rs)
1.	Renovation of Existing CO2 Flooding system (Fire Suppressions System) of MHI make Gas Turbine unit # 1, 2, 3 & 4 including supply, erection, testing and commissioning with interlock protection of respective gas turbine unit of Assam Gas Based Power Plant, NEEPCO Ltd, Bokuloni, Dibrugarh (Assam) Hence, the price for 1 (one) unit shall be Rs. 23,47,618.65 (rupees twenty-three lakhs forty-seven thousand six hundred eighteen and paise sixty-five) only	93,90,474.58	16,90,285.42	1,10,80,760.00
Total:	**Rupees one crore ten lakhs eighty thousand seven hundred and sixty only**			

2.0 TAXES & DUTIES:

The price indicated above is **inclusive of 18% GST**. However, taxes & duties shall be paid at actual as applicable at the time of execution of work.

3.0 CONTRACT PERFORMANCE GUARANTEE:

Within 30 (Thirty) days from the date of issue of LOI/WO, the Contractor shall furnish unit wise Bank Guarantee in lieu of Security-cum-Performance Guarantee for an amount equal to 3 (three) percent of the basic contract value, as per the enclosed format (**Annexure - III**) from any Nationalized Bank in favour of NEEPCO Ltd. valid for entire period of contract and additional 90 (ninety) days. **OR**

SECURITY DEPOSIT:

Within 30 (Thirty) days from the date of issuance of work order, the Contractor shall deposit 3 (three) percent of basic contract value towards Security Deposit as per the procedure/steps mentioned at Clause No. 5 of Section-I of tender document for payment by SB-COLLECT of

State Bank of India in to NEEPCO (AGBP) SBI Account, Bokuloni Chariali Branch, Dist Dibrugarh, Assam. Security Deposit shall be valid till entire guarantee/warranty period and additional 90 (ninety) days thereafter covering claim period.

4.0 PAYMENT TERMS:

i. 100% value of the contract against each unit shall be released after successful completion of work as per scope of work and submission of work completion certificate of relevant Gas Turbine unit thereof as per contract subject to submission of security deposit equivalent to 3 (Three) % of basic value as mentioned in Clause No. 3.0 above. Otherwise 3 (Three) % of total contract value shall be deducted from the bill as Security Deposit.

ii. Bill in triplicate, along with requisite documents if any, shall be submitted to the Manager (Fire & Safety) for releasing payment.

5.0 COMPLETION SCHEDULE:

The work of renovation/modification & automation of CO2 Flooding system for **one unit shall be completed within 80 days** from the date of handing over of site by the Engineer-In-Charge. The unit wise completion period shall include the period of test operation/observation (15 days)

6.0 PAYING AUTHORITY:

The GM (F&A), Assam Gas Based Power Station,
NEEPCO Ltd., P.O. Bokuloni Chariali, Dist. Dibrugarh,
Assam, PIN – 786 191.

7.0 LIQUIDATED DAMAGE:

The Contractor shall ensure timely completion of work under this contract to the satisfaction to the Engineer in Charge of NEEPCO. The Contractor shall ensure engagement of adequate skilled manpower for timely completion of entire work satisfactorily as per scope of work. In case the Contractor fails to to complete the work satisfactorily within stipulated time period (or any extension thereof) due to reasons attributable to the contractor / supplier, then the Corporation reserve the right to recover from the contractor / supplier's sum towards Liquidated Damage @ ½ % (half percent) value of the total contract for each calendar week or part thereof delay from the schedule completion date (or extension thereof). The total recovery from the contractor / supplier on account this shall, however, not exceed 10% (Ten percent) of the value of the total contract value.

8.0 FORCE MAJEURE:

The terms and condition mutually agreed upon with respect to this agreement shall be subject to force majeure. Neither the contractor nor the Corporation shall be considered default in performing of its obligation herein under if such performance is prevented or delayed because of war, hostilities, revolution, civil commotion, epidemic, accidents, fire, wind, flood or because of any law and order proclamation, regulation or ordinance of the Government or any act of God which is beyond control.

9.0 REPORTING AT SITE:

The Contractor shall report at site immediately after placing the work order. The completion time of 1 (one) unit will be 80 (eighty) days from the date of handing over of site. The 2nd unit shall be handed over for renovation/modification only after successful commissioning of 1st unit and successful completion of test operation/observation of the unit for a period of 15 (fifteen) days.

C. GENERAL TERMS AND CONDITION:

a. The Contractor is required to comply with all relevant acts, rules and regulations applicable in respect of safety of the personnel engaged for the works.

b. NEEPCO will not accept any liability for accidents to Contractor's workmen and compensation required to be paid to the Contractor's workmen in the event of any accident. NEEPCO bears no responsibility whatsoever towards the Contractor's workmen for any loss / damage caused by any accident during the works. For any such eventuality the responsibility lies solely on the Contractor.

c. The Contractor at his own interest and cost shall arrange for adequate insurance cover for his workers to protect them against all claims applicable under Workmen's Compensation Act, 1923.

d. The Contractor's workmen will not be entitled to free medical treatment from NEEPCO. The Contractor shall ensure the receipt of medical benefit to his workmen under Employees State Insurance Act'1948.

e. The Contractor shall ensure full compliance of various Indian Laws and Statutory Regulations, to the extent applicable, as stated below, but not limited to, in force from time to time:

i) Workman's Compensation Act, 1923.
ii) Payment of Wages Act, 1936.
iii) Minimum wages Act, 1948.
iv) Contract Labour (Regulation & Abolition) Act, 1970.
v) Provident Funds and Miscellaneous Provisions Act, 1952.
vi) Income Tax Act 1961.
vii) Assam Finance Act 1956.
viii) Assam Sales Tax Act 1947.
ix) Any other Act or Statue having bearing over engagement of workers directly or indirectly for execution of the Contract.

f. The Income Tax and other taxes as may be payable under the provision of relevant Acts will be deducted at source.

g. The Contractor's personnel shall maintain strict discipline and harmony at the work site. The Engineer-in-Charge of NEEPCO shall be at discretion to object to the presence of any worker / representative of the Contractor at site, if in his opinion, such worker / representative has misconducted himself or found incompetent or negligent or otherwise undesirable; the Contractor shall remove such person(s) immediately.

h. The persons engaged by the Contractor must not be found under the influence of alcohol and drugs within the Plant area during the duty hours and also maintain decorum in the Plant area at all the time. The Contractor shall not engage minor labour below 18 (eighteen) year of age under any circumstances.

i. Temporary Entry Pass for entry into the work site will be issued by NEEPCO in favour of the Contractor and each of his workers till expiry of the contract period. No personnel shall be allowed to enter inside the NEEPCO's Plant/Colony area without valid Entry Pass. The Contractor shall apply for the temporary Entry pass for his employees giving full details of them.

j. SETTLEMENT OF DISPUTES:
A process of mutual settlements shall decide all the differences or disputes arising out of the Contract between the parties. However, if the process of mutual settlements fails, then the dispute under this contract will be settled through arbitration as per Indian Arbitration and Conciliation Act.

k. TERMINATION OF CONTRACT:
NEEPCO reserves the right to terminate this contract in the event of Contractor's continued default in providing requisite services after proper and due notice having being served upon.

C/ AK.

NEEPCO also reserves the right to terminate this contract if any condition under FORCE MAJEURE warrants stoppage of the work. In case of termination on account of this reason, before completion of the Contract period the Contractor shall be paid all eligible charges as per this contract on pro rata basis for the work done up to the date of termination. On expiry of the Contract period, this contract will automatically stand terminated.

n. AGREEMENT:
The Contractor shall be required to sign the Contract Agreement in 3 (three) copies along with appropriate Power of Attorney and other requisite material within 7 (seven) days from the date of placement of order, the Contractor shall depute representative for signing the Agreement.

o BREACH OF CONTRACT:
In case of infringement of any terms and conditions major or minor of this covenant/agreement by the Contractor the Corporation shall have full power to rescind, cancel or terminate the contract after observing all legal formalities. The decision of Corporation in this regard shall be final and binding.

p SUSPENSION OF WORK:
i. The Corporation reserves the right to suspend and restore execution of the whole or any part of the awarded Contract. Orders for suspension or restoring the works will be issued by the Engineer-in-Charge to the Contractor in writing.
ii. Any necessary and demonstrable costs incurred by the Contractor as a result of such suspension of the works will be paid by the Corporation, provided such costs are substantiated to the satisfaction of the Engineer-in-Charge. The Corporation shall not be responsible for any liabilities if suspension is due to some default on the part of the Contractor.

All other terms and conditions under this work order shall be governed by the terms and conditions of E-tender no **NEEPCO/AGBP/O&AWC/2021-22/01 dated 25.06.2021 (Tender ID: 2021_NEEPC_80411_2)**

You are requested to start the works in consultation with the Manager (Fire & Safety) and I/C C&I Division. Kindly acknowledge receipt of this work order.

Thanking you,

Yours faithfully,

Enclo: Annexure-I, II & III

(Binita Dutta)
DGM (E/M), O&AWC,
AGBPS, NEEPCO Ltd.,
Bokuloni Chariali,
Dibrugarh-786 191.
E-mail: dgmagbpelect@gmail.com

No. **NEEPCO/AGBPS/O&AWC/T-11 (Vol-IV)/2021-22/ 739-44** **Date: 31.03.2022.**

Copy for favour of kind information to:

1. The HOP, AGBPS, NEEPCO Ltd., This order is in accordance with his approval note ref. no. HOP/1243 dated 14.03.2022.
2. The GM (F&A), AGBPS, NEEPCO Ltd, with a copy of approval note.
3. The GM (E/M), C&I-O&AWC-PEM, AGBPS, NEEPCO Ltd., for favour of necessary action please.
4. The DGM (E/M), Vigilance Wing, AGBPS, NEEPCO Ltd.
5. The Manager (Safety), AGBPS, NEEPCO Ltd, for necessary action please.

DGM (E/M), O&AWC
AGBP, NEEPCO Ltd.

Mitsubishi Corporation

3-1, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8086, JAPAN

Date: September 16, 2009
Ref.: MPB/XA-P014

North Eastern Electric Power Corporation Ltd.
(A Government of India Enterprise)
Assam Gas Based Power Project
Attn.: Mr. D. Choudhury, Senior Manager(E)
For & on behalf of General Manager & Head of Project

Subject: NEEPCO/AGBP-Requirement of Spares for Chubb Fire Engineering, U. K. make CO_2 Fire Fighting Systems of MHI Make Gas Turbine Unit Nos. 1-4.

Ref.: Your Letter No. NEEPCO/AGBP/HOP/W-17/2009-10/332 dated August 29, 2009

Dear Sir,

With reference to the captioned subject, although we are requested to submit our offer urgently, we regret to inform you that it is expected to take long time for the quotation work.

Please be informed that the inquired items are overseas procurement items. Due to bankruptcy and absorption, the overseas vender has not found their old document at the time of supply and the inquired items have not been identified yet.

It is highly possible that the items are discontinued since they are items which were supplied ten-odd years ago, however, it is expected to take long time to check whether we can supply the substitutes also.

We apologize for the inconvenience, but we are making effort to inform you the result at the earliest.

Please do not hesitate to contact us if you have any questions or comments.
Thank you for your kind attention to the above, we are,

Very truly yours,
MITSUBISHI CORPORATION

T.YODA
General Manager
Power Systems Export Unit,
Power & Electrical Systems Division

Receipt No. 10/.....
Date 22/10/09 File No. T-39
Fire & Safety Wing.

Copy: MC-DEL (MAC) / MHI-TGO

No. NEEPCO/AGBP/HOP/W-17/2009-10/ Dated

To: M/S Mitsubishi Corporation,
Power Systems Export Unit,
Power & Electrical Systems Division,
3 – 1, Marunouchi 2 – chome, Chiyoda – ku,
Tokyo 100 – 8086, Japan.
(Fax No. 011 – 43682333)

ATTN: Mr. T. Yoda, General Manager.

Sub: NEEPCO/AGBP – Requirement of spares for Chubb Fire Engineering, U.K. make CO_2 Fire Fighting systems of MHI make gas turbine unit nos. 1 – 4.

Dear Sirs,

We are in urgent requirement of the following spare parts for the Chubb Fire Engineering, U.K. make skid mounted CO_2 Fire Fighting systems of MHI make MW 251 B gas turbine unit numbers 1 to 4, which were supplied by you alongwith the main plant under the turnkey contract:

1. CO_2 Container Discharge Valves type TF-12 as per drawing No. FDDBO 1596: 60 numbers;

2. Nitrogen Cartridge Assembly (43.002) as per drawing NO. FDDBO 1449 / 4: 24 numbers.

Further technical details of the above mentioned spare parts are enclosed as Annexures I & II respectively.

Kindly appreciate that the Fire Fighting systems are lying defunct at present for want of these vital spares and, therefore, the same are required extremely urgently. **Hence, we would request you to kindly attach topmost priority to the matter and submit your offer for supply of the above items at the earliest.**

Enclo: As stated above.

Thanking you,

Yours faithfully,

(D. Choudhury)
Senior Manager (E)
For & on behalf of
General Manager & Head of Project

NIO
Memo. No. NEEPCO/AGBP/HOP/W-17/2009-10/ 333 Dated 29/8/09

Copy to:
Sr. Manager (F&S), AGBP, NEEPCO – for information

Contract

Contract No: GEMC-511607758935669
Generated Date: 04-Nov-2022
Bid/RA/PAP No.: GEM/2022/B/3341921

Organisation Details

Type:	Central PSU
Ministry:	Ministry of Power
Department:	NORTH EASTERN ELECTRIC POWER Corporation Limited
Organisation Name:	NORTH EASTERN ELECTRIC POWER Corporation Limited
Office Zone:	Assam Gas Based Power Plant Building Bihsurpara

Buyer Details

Designation:	DEPUTY GENERAL MANAGER (S)
Contact No.:	-
Email ID:	dgmmm.megpcl@gmail.com
GSTIN:	-
Address:	ADMIN, MEPCO, Bahuarat, Dhemaji, Assam, DHEMAJI, ASSAM-787131, India

Financial Approval Detail

IFD Concurrence:	No
Designation of Administrative Approval:	CGM & HOP
Designation of Financial Approval:	GM(Finance)

Paying Authority Details

Payment Mode:	Online
Designation:	IN CHARGE FINANCE
Email ID:	cmdp.megpcl@gmail.in
GSTIN:	18AANCM9991D1ZP
Address:	ADMIN, MEPCO, Bahuarat, Dhemaji, Assam, Dhemaji, ASSAM-787131, India

Seller Details

GeM Seller ID:	SE09180000542782
Company Name:	NGG POWER TECH INDIA PRIVATE LIMITED
Contact No.:	09988434323
Email ID:	nikhil.dhillon@nggpowertech.com
Address:	M/S NGG POWER TECH INDIA PRIVATE LIMITED,Village Indian Majra PO Pollon Teel,TEHSIL Una, Una, HIMACHAL PRADESH-174303, -
MSME verified:	Yes
MSME Registration number:	HP12/0000043
MSE Social Category:	General
MSE Gender:	Male
GSTIN:	02AAFCN8863C1ZX

*GST / Tax invoice to be raised in the name of - Consignee

Product Details

#	Item Description	Ordered Quantity	Unit	Unit Price (INR)	Tax Bifurcation (INR)	Price (Inclusive of all Duties and Taxes in INR)
1	Product Name : NGG POWER- NGG POWER TECH INDIA PRIVATE LIMITED Distribution Transformer, 3 Phase, 11 KV, > 200 KVA Up to and Including 2500 KVA Brand : NGG POWER- NGG POWER TECH INDIA PRIVATE LIMITED Brand Type : Unregistered Brand Catalogue Status : OEM verified catalogue Selling As : OEM Category Name & Quadrant : Distribution Transformer, 3 Phase, 11 KV, > 200 KVA Up to and including 2500 KVA (Q3) Model: NGGV83DM5K0022 HSN Code: 8504	1	pieces	993,000	NA	993,000
2	Product Name : ICT charges for Distribution Transformer, 3 Phase, 11 KV, > 200 KVA Up to and including 2500 KVA Brand : NA Brand Type : Unbranded Catalogue Status : Catalogue not verified by OEM Selling As : Reseller not verified by OEM Category Name & Quadrant : Addon Services for kid (Q3) Model: ICT HSN Code: HSN not specified by seller	1	pieces	201,313	NA	201,313
Total Order Value (in INR)						1,194,313

Consignee Detail

S.No	Consignee	Item	Lot No.	Quantity	Delivery Start After	Delivery To be Completed By

1	Designation:- Email ID- Contact: 0374-2623284- GSTIN: - Address: AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam, DIBRUGARH, ASSAM 786151, India	AGBP Power Tech India Private Limited Distribution Transformer, 3 Phase, 33 KV, > 200 KVA Up to and including 2500 KVA	1	1	Oct-Nov 2022	04-Dec-2022

Product Specification for NGG POWER--NGG POWER TECH INDIA PRIVATE LIMITED Distribution Transformer, 3 Phase, 33 KV, > 200 KVA Up to and including 2500 KVA

Specification	Sub-Spec	Value
STANDARDS	Conformity of the specification	Conformity of the specification
	ISI Marked	Yes
	BIS License Number - Must declare	9600029310
	Energy efficiency level	2
	BEE Star Rating	0
	Installation, Testing and Demonstration	No
	Minimum warranty on receipt at stores (in Months)	30
	Minimum warranty from the date of installation (in Months)	24
RATINGS	Nominal system voltage, HV (in kV)	11
	Nominal system voltage, LV (in V)	415
	Standard ratings (in kVA)	630
	Rated frequency	50 Hz +/-5%
	Minimum basic insulation level (in kVP)	35
	No load voltage ratio (in Volts)	11000/433-250
	Highest system voltage for equipment (in kV)	12
	Rated lightning impulse withstand voltage (in kV Peak) (Refer IS 2100 (Part 1)/2014 Annex-D)	35
CONSTRUCTION	Core material	CRGO (as per IS:3024 latest)
	Conductor (Winding) material	Copper
	Insulating paper	Kraft Paper (as per IS:9335 latest)
	Vector Group	Dyn-11
	Type of Mounting	Ground Mounted
	Method of system earthing	effectively earthed system
	Standard fittings shall be provided with each distribution transformer	as per Cl.20.1 of IS:1180 (Part 1):2014 Amdt.1
	Noise level at rated voltage and frequency, Maximum (in dB)	55
TRANSFORMER TANK	Transformer tank cover construction	Non-sealed, Bolted
	Tank configuration with	With radiator fins
	Type of cooling	ONAN
	Material of transformer tank	Stainless steel
	Minimum thickness of top and bottom material of transformer tank (in mm)	6
	Minimum thickness of side material of transformer tank (in mm)	4
	Material of Bolts/nuts/washers exposed to atmosphere	Stainless steel (for upto 12 mm size),Brass (for upto 12 mm size),Electro Galvanized (for above 12 mm size),Hot Dip Galvanized (for above 12 mm size)
	Gaskets wherever used shall conform to	Type III (as per IS:11149) Type C (as per IS:4253 (Pt.2)
	Provision of conservator	Yes , for Non sealed type with Plain tank construction
	Insulating Oil	Mineral oil (as per IS:335 latest)
	Quantity of insulation oil required (in litre) - Must declare	500
	Transformer to be supplied with transformer oil	Yes
	Shape of transformer tank	Rectangular

	Maximum altitude	<5000 m
TEST REPORTS & CERTIFICATIONS	Availability of type test reports to prove the conformity of the specification from	NABL Accredated
	Agreed to furnish type test reports to the buyer / consignee on demand	Yes
	Agreed to furnish routin test reports to the buyer / consignee on demand	Yes
	Agreed to furnish valid BIS Licencte certificte to buyer / consignee on demand	Yes
	Agreed to furnish valid Energy Star Rating certificte to buyer / consignee on demand	Yes
	Agreed to furnish complete drawings of distribution transformer to the buyer / consignee on demand	Yes
	The design calculation in support of flux density shall furnish to the buyer /consignee	Yes
	Agreed for stage inspection as required by buyer	Yes
	The product shall comply with all relevant Gazette notifications of Govt., of India with all latest amendments up to date, as applicable	Yes
SPECIAL TEST REPORTS	Availability of test report for Determination of sound level test	No
	Availability of test report for short circuit withstand test	Yes
	Availability of test report for No load current at 112.5 % Voltage	Yes
	Availability of test report for Paint adhesion test	No
	BDV and moisture content of oil in the transformer	Yes for 1 No.
	Other requirements	Losses and Impedance values as per Cl.7.5 and Table 6 of IS:1180 (Part 1):2014 latest,Limits of temperature rise as per Cl.7.10 of IS:1180 (Part 1):2014 latest

Buyer Defined Additional Specification for NGG POWER--NGG POWER TECH INDIA PRIVATE LIMITED Distribution Transformer, 3 Phase, 11 KV, > 200 KVA Up to and including 2500 KVA

Specification	Value
Configuration(vector group)	Dyn11
Drain Cum Sampling Valve	Yes with steel plug
PRV	Yes
Installation ,testing & demonstration	Yes(required)
Method of system earthing	Effective earthing system

Installation Commissioning and Testing (ICT) details for the above item:

% of Product Cost Payable on Product Delivery	80 %
Min Cost Allocation for ICT as a % of product cost	20 %
Number of days allowed for ICT after site readiness communication to seller	30 Days

Buyer Defined Additional Specification for ICT charges for Distribution Transformer, 3 Phase, 11 KV, > 200 KVA Up to and including 2500 KVA

Specification	Value
Configuration(vector group)	Dyn11
Drain Cum Sampling Valve	Yes with steel plug
PRV	Yes
Installation ,testing & demonstration	Yes(required)
Method of system earthing	Effective earthing system

Designation: -
Email ID:

	Pressure and Vacuum requirements	as per Cl.15.2 of IS:1180 (Part 1):2014 latest
Painting	Type of painting on inside of tank (Int: Refer Table 12 of IS:1180 (Pt.1):2014)	Oil resistant paint
	Type of painting on External surface of tank (Int: Refer Table 12 of IS:1180 (Pt.1):2014)	Epoxy (Primer),Polyurethane (finish coat)
TAP CHANGER	Tap changing arrangement	Off circuit , externally operated switch with mechanical locking device and a position indicator
	Winding tapped	HV
	No. of positions (in Nos.)	7
	Voltage variation	+5% to -10% in steps of 2.5% for variation of HV
TERMINAL ARRANGEMENT	Transformer fitted with bushings of appropriate voltage and current ratings on HV side	Yes, 3 Nos. (Conforming to IS:2099)
	Transformer fitted with bushings of appropriate voltage and current ratings on LV side	Yes, 4 Nos. (Conforming to IS:7421)
	Suitable provision for adoption of cables of suitable size on LV side	Yes. For PVC/XLPE Cables
	Cable End Box on HV side	No
	Cable End Box on LV side	Yes
AIR CLEARANCE	Minimum External air clearances between bushings mounted on transformers	as per Table 10 of IS:1180 (Part 1):2014 latest
	Minimum air clearances in cable box	as per Table 11 of IS:1180 (Part 1):2014 latest
	Suitable bimetallic connectors (clamp type) shall be provided on both HV and LV side in order to ensure sound and robust connection	Yes. For Bare bushing termination
MARKING	Material of rating plate	Anodized aluminium
	Marking method on rating plate	Engraved
	Rating and terminal marking plates combined into one plate	Yes
	Dimension of Rating Plate, Terminal Marking Plate and Combined Rating and Terminal Plate	as per OEM Specn
	Agreed to provide Departmental Logo/Identification marking I shall be engraved on the transformer as prescribed by buyer separately	Yes
OPTIONAL FITTINGS	Suitable rating lightning arresters	HT Side, 3 No. per phase
	Bird guard	No
	Terminal connectors	Yes
	Oil temperature indicator and winding temperature indicator	Yes
	Jacking pads	No
	Buchholz relay	NoMagnetic oil level gauge with low oil level alarm contact
	Magnetic oil level gauge with low oil level alarm contact	No
	Non return valve	Yes
	Protection relay for sealed type transformers for internal parameters that is pressure, temperature, oil level and gas detection	No
	Unidirectional flat rollers	Yes
	Drain cum sampling valve	Yes with steel plug (for transformers upto 500 KVA)
	Self protection / disconnection devices	No
	Expulsion fuse as disconnection device	No
SERVICE CONDITION	Maximum ambient air temperature (in deg. C)	50
	Minimum ambient air temperature (in deg. C)	-5
	Maximum average daily ambient air temperature (in deg. C)	40
	Maximum yearly weighted average ambient temperature (in deg. C)	32
	Min. Relative Humidity (in %)	26
	Max. Relative humidity (in %)	95
	Max. Wind Pressure kg/sq.m	150

12:10 PM

Terms and Conditions

1. General Terms and Conditions-

1.1 This contract is governed by theGeneral Terms And Conditions, conditions stipulated to this Product/Service as provided in the Marketplace.

1.2 This Contract between the Seller and the Buyer, is for the supply of the Goods and/ or Services, detailed in the schedule above, in accordance with the General Terms and Conditions (GTC) unless otherwise superseded by Goods / Services specific Special Terms and Conditions (STC) and/ or BIDReverse Auction Additional Terms and Conditions (ATC), as applicable

2. Buyer Added Bid Specific Terms and Conditions-

2.1 *Buyer Added Bid Specific ATC*
Buyer uploaded ATC document Click here to view the file.

Note: This is system generated file. No signature is required. Print out of this document is not valid for payment/ transaction purpose.

(Published in the Gazette of India, Extraordinary, Part III, section iv)

Central Electricity Authority

New Delhi, dated the 17th March, 2006

NOTIFICATION

No. 502/70/CEA/DP&D In exercise of the powers conferred by sub-section (1) of section 55 and clause (e) of section 73 read with sub-section (2) of section 177 of Electricity Act, 2003, the Central Electricity Authority hereby makes the following regulations for regulating the installation and operation of meters, namely :-

1. Short title and commencement. -

(1) These regulations may be called the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006.

(2) These Regulations shall come into force on the date of their publication in the Gazette of India.

2. Definitions. -

(1) In these regulations, unless the context other wise requires, -

(a) 'Act' means the Electricity Act, 2003;

(b) 'Accredited Test Laboratory' means a test laboratory accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL);

(c) 'Active Energy' means the electricity supplied or consumed during a time interval, being the integral of Active Power with respect to time, measured in the units of 'Watt – hours' or standard multiples thereof. One 'kilowatt – hour' (kWh) is one unit;

(d) 'Active Power' means the electrical power, being the product of root mean square (rms) voltage, root mean square (rms) current and cosine of the phase angle between the voltage and current vectors and measured in units of 'Watt' (W) or in standard multiples thereof;

(e) 'Appropriate Load Despatch Centre' means 'National Load Despatch Centre' (NLDC) or 'Regional Load Despatch Centre' (RLDC) or the 'State Load Despatch Centre' (SLDC) as the case may be;

(f) 'Appropriate Transmission Utility' means the 'Central Transmission Utility' (CTU) or the 'State Transmission Utility' (STU), as the case may be;

(g) 'Availability Based Tariff (ABT)' means a tariff structure based on availability of generating units and having components, viz, Capacity Charges (CC),

1

SCHEDULE

(see regulations 2,5,8,12 and 16)

Standards on Installation and Operation of Meters

Part I Standards Common To All Type of Meters

(1) These standards provide for specification of meters, immunity to external factors, sealing points and functional requirements that are required from regulatory perspective. Detailed technical specification shall be prepared by the purchaser of the meter.

(2) **Specifications of meters**

<table>
<tr><td>Standard Reference Voltage</td><td>As per IS</td></tr>
<tr><td>Voltage Range</td><td>As per IS</td></tr>
<tr><td>Standard Frequency</td><td>As per IS</td></tr>
<tr><td>Standard Basic Current</td><td>As per IS

(Current range of consumer meters shall be so chosen as to record the load current corresponding to the sanctioned load)</td></tr>
<tr><td>Accuracy Class</td><td>Meters shall meet the following requirements of Accuracy Class:

<table>
<tr><td>Interface meters</td><td>0.2S</td></tr>
<tr><td colspan="2">Consumer meters</td></tr>
<tr><td>Up to 650 volts</td><td>1.0 or better</td></tr>
<tr><td>Above 650 volts and up to 33 kilo volts</td><td>0.5S or better</td></tr>
<tr><td>Above 33 kilo volts</td><td>0.2S</td></tr>
<tr><td colspan="2">Energy accounting and audit meters

The accuracy class of meters in generation and transmission system shall not be inferior to that of 0.2S Accuracy Class. The accuracy class of meters in distribution system shall not be inferior to that of 0.5S Accuracy Class</td></tr>
</table>
</td></tr>
<tr><td>Starting Current and Maximum Current</td><td>As per IS</td></tr>
</table>

15

"(2) Specification of meters:

1.	Standard Reference Voltage, Voltage Range, Standard Frequency, Starting Current and Maximum Current, Power Factor Range, Power Frequency withstand voltage, Impulse voltage withstand test for 1.2/50 micro sec, Power Consumption	As per relevant Indian Standards (IS).
2.	Standard Basic Current	As per relevant IS. Current range of consumer meters shall be so chosen as to record the load current corresponding to the sanctioned load.
3.	Accuracy class	Meters shall meet the following requirements of Accuracy Class:

(a) Interface Meters	0.2S
(b) Consumer Meters	
(i) Upto 650 Volts Direct Connected	1.0
(ii) Upto 650 volts CT Connected	Class 0.5S as per relevant IS where separate CTs are used Or Class 1.0 as per relevant IS for terminal less direct connected long current range meters.
(iii) Above 650 volts and up to 33 kilo volts	0.5S
(iv) Above 33 kilo volts	0.2S

(c) Energy Accounting and Audit Meters

(i) In generating stations, the accuracy class of meter(s) at a point after the generator stator terminals, before the tap off to the unit auxiliary transformer(s) and at the inverter AC output terminals in case of Renewable Energy generating station, shall not be inferior to that of 0.2S accuracy class:

Provided that, the accuracy class of other meters shall not be inferior to that of 1.0S accuracy class.

(ii)The accuracy class of meters in transmission system shall not be inferior to that of 0.2S accuracy class.

(iii) The accuracy class of meters in distribution system shall not be inferior to that of 0.5S accuracy class where separate CTs are used with meter:

Provided that in case of terminal less direct connected long current range meters accuracy class shall not be inferior to class 1.0.

(iv) The accuracy class of Energy accounting and Audit Meters for renewable energy generating station located at consumer premises shall be same as that of consumer meter.

4.	Ambient Temperature and Humidity (in case an International Standard or an IEC Standard is followed)	Temperature range: Limit range of operation: -10 °C to +70 °C Limit range for storage and transport: -10 °C to +70 °C Relative Humidity: up to 100%

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 23rd December, 2019

No. CEA-GO-13-15/3/2019-DPR Division.—Whereas the draft regulations proposing to amend the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 was published in six newspaper dailies, as required by sub-section (3) of section 177 of the Electricity Act, 2003 (36 of 2003) read with sub-rule (2) of rule (3) of the Electricity (Procedure for previous Publication) Rules, 2005, inviting objections and suggestions from all persons likely to be affected thereby, before the expiry of the period of forty-five days, from the date on which the copies of the newspaper containing the said publications were made available to the public;

And whereas copies of the said newspapers containing the said regulations were made available to the public on 21st February, 2019;

And whereas the objections and suggestions received from the public on the said draft regulations were considered by the Central Electricity Authority;

Now, therefore, in exercise of the powers conferred by sub-section (1) of section 55 read with clause (c) of sub-section (2) of section 177 of the Electricity Act, 2003, the Central Electricity Authority hereby makes the following regulations further to amend the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, namely: -

1. (1) These regulations may be called the Central Electricity Authority (Installation and Operation of Meters) (Amendment) Regulations, 2019.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 (hereinafter referred to as the said regulations), in sub-regulation (1) of regulation (2),-

(i) clause (g), shall be omitted;

(ii) for clause (i), the following clause shall be substituted, namely:-

"(i) 'Check Meter' means a meter, which shall be connected to the same core of the Instrument Transformer to which main meter is connected and shall be used for accounting and billing of electricity in case of failure of main meter;";

(iii) for clause (j), the following clause shall be substituted, namely:-

"(j) 'Consumer Meter' means a meter used for accounting and billing of electricity supplied to or from the consumer but excluding those consumers covered under Interface Meters;";

(iv) for clause (k), the following clause shall be substituted, namely:-

"(k) 'Correct Meter' means a meter, complying the standards as specified in the Schedule to these regulations;";

(v) for clause (m), the following clause shall be substituted, namely:-

"(m) 'Instrument Transformer' means the 'Current Transformer' (CT) or 'Current Transformer' (CT) and 'Capacitor Voltage Transformer' (CVT) or 'Current Transformer' (CT) and 'Inductive Voltage Transformer' (IVT);";

(vi) for clause (n), the following clause shall be substituted, namely:-

"(n) 'Interface Meter' means a meter used for accounting and billing of electricity, connected at the point of interconnection between electrical systems of generating company, licensee and consumers, directly connected to the Inter-State Transmission System or Intra-State Transmission System or Distribution System and who have been permitted open access by the Appropriate Commission;";

(vii) for clause (p), the following clause shall be substituted, namely:-

"(p) 'Meter' means a device suitable for measuring, indicating and recording the conveyance of electricity or any other quantity related with electrical system and shall include, wherever applicable, other equipment such as Instrument Transformer necessary for the purpose of measurement and also mean 'Correct Meter', if it complies with the standards as specified in the Schedule to these regulations;";

(viii) clause (r), shall be omitted.

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लिमिटेड
(मिनी रत्ना, श्रेणी I, भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Limited,
(Mini Ratna Category - I, Govt. of India Enterprise)
असम गैस बेस्ड पावर प्लांट, का. संयंत्र प्रमुख
Assam Gas Based Power Plant
डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

ISO: 9001 – 2015
ISO: 14001 – 2015
OHSMS: 45001 – 2018

Ref No.: NEEPCO/AGBP/PEM/O&M-01/2022-23/495 Dated 31/03/2022

To,

M/S Everlite Engineering Industries Limited
Tinsukia, Assam-786125. Email: vseverlite@gamil.com

Copy to: M/S GE T&D India Limited, DLF IT Park, Premises No:8, Major Arterial Road, Block "AF", Tower-C, 8th Floor, New Town, Rajarhat, Kolkata- 700156. Email: debraj.mallick@ge.com

Sub: Detailed Order for "Design, engineering, manufacturing, supply, delivery, retrofitting/erection, testing and commissioning of 245KV Current Transformer by replacing old existing BHEL make 245KV CT" etc. to AGBPS, NEEPCO Ltd., Bokuloni, Dibrugarh, Assam.

Ref:

1. Our NIT No: NEEPCO/AGBP/PEM/O&M-01/2021-22/2 dated 04/08/2021 (Tender ID: 2021_NEEPC_84510_1).
2. NEEPCO/AGBP/PEM/O&M-01/2021-22/215 dated 4/09/2021 (Corrigendum-1 dated: 04/09/2021).
3. Your offer/letter vide EEIT&SR2115/NEEPCO-Bokuloni/21219 dated: 03/09/2021.
4. Letter of M/S GE T&D India Ltd. vide No: MAF/NEEPCO/245KV CT/ITR/09 dated 03/09/2021 & no: GE T&DIL/NEEPCO/245KV CT/ITR/12 dated 03/09/2021.
5. Our letter vides NEEPCO/AGBP/PEM/O&M-01/2021-22/343 & 342 dated. 23/12/2021.
6. Your clarifications and confirmations of bidders/manufacturers against our queries vide Ref: EVERLITE/NEEPCO/245KV CT/ITR/1221/10 dated 28/12/2021 & EEIT&SR2115/NEEPCO-Bokuloni/21219A dated 28/12/2021.
7. Notice vide NEEPCO/AGBP/PEM/O&M-01/2021-2022/396 dated. 16/2/2022.
8. Request for extension of validity of offer vide NEEPCO/AGBP/PEM/O&M-01/2021-22/424 dated. 05/3/2022.
9. Your letter vide EEIT&SR2115/NEEPCO-Bokuloni/2022/22045 dated 07/03/2022.
10. Our letter vide NEEPCO/AGBP/PEM/O&M-01/2021-22/441 dated. 14/03/2022.
11. Your letter vide EEIT&SR2115/NEEPCO-Bokuloni/22054 dated 15/03/2022.
12. LOI vide NEEPCO/AGBP/PEM/O&M-01/2021-2022/468 dated 23/03/2022.
13. Your acknowledgment and acceptances vide EEIT&SR2115/NEEPCO-Bokuloni/22072 dated 29/03/2022.

Sir,

With reference to above, the Corporation is pleased to issue this Detailed Order for "Design, engineering, manufacturing, supply, delivery, retrofitting/erection, testing and commissioning of 37 Nos. of new 245KV Current Transformer by replacing old existing BHEL make 245KV CT" etc. to AGBP, NEEPCO Ltd. as per terms and conditions mentioned below:

1. **SCOPE OF WORKS**: Design, Engineering, Manufacture, Inspection and Testing at Manufacturer's works before dispatch of 245 KV Current Transformers, Packing & Forwarding, Supply, delivery, Transportation to site, Insurance from the source of supply till commissioning, Material Handling, Loading and unloading, Storage at Site, dismantling of old existing BHEL make 245KV CT, Retrofitting/Erection, Testing and Commissioning of new Current Transformers (CT) in phase manner at AGBP, NEEPCO LTD., Bokuloni, Dibrugarh, Assam as per terms and conditions stipulated

Prices: The prices for entire scope of the works shall be as indicated in the Annexure-A (Schedule of Items and Prices). The Prices shall remain FIRM during the currency of this contract. Total Basic Price for Supply, Dismantling, Retrofitting/Installation, Testing, Commissioning including Mandatory spares shall be for an amount *Rs 1,32,29,476.75 (Rupees one crore thirty-two lakh twenty-nine thousand four hundred seventy-seven) and Total Price for same shall be Rs 1,73,31,064.43 (Rupees one crore seventy-three lakh thirty-one thousand sixty-four)* only inclusive of all applicable taxes (GST), duties, freight & transit insurance, etc as detailed in **Annexure-A (Schedule of Items and Prices)**.

2.2 **Insurance coverage**: The supplier shall arrange transit insurance for transportation of the materials till delivery at site, storage at project site, erection, testing and commissioning of the supplied equipment's. The said insurance shall be valid from the date of commencement up to the date of completion of works and shall further provide the defect liability period in respect of all liabilities of the contractor under the contract. In the event of any loss/damage it shall be the responsibility of the contractor to lodge the claim with insurer immediately after occurrence. If the contractor fails to settle the claim, the amount equivalent to the loss/damage shall be recovered from any amount due to the contractor.

2.2 **Taxes and Duties**: The prevailing rate of GST has been indicated in the Annexure-A (Schedule of Items and Prices) However, the GST shall be applicable as per GST rule at the time of execution subject to submission of GST registration, HSN code and payment details. Kindly submit GST Invoice with all information details as per GST rule.

2.3 **Mandatory Spare**: Mandatory spares as indicated in the Schedule of Items and Prices shall be supplied by the Supplier.

2.4 **Availability of Spares**: Spares for supplied/offered CT shall have available for 25-30 years based on agreed term & conditions and Manufacturer's undertaking.

2.5 **Field Service:** The supplier had to ensure the appropriate technical support service consisting of factory trained Customer Engineers dedicated to the start-up, maintenance and repair of equipment. In case of breakdown of equipment's or urgency, the supplier shall be ensured to provide Technical support service within 48 hrs from the time of intimation during contract periods.

3.0 TIME OF COMPLETION OF CONTRACT:

3.1 **Delivery Period**: Complete set of equipment/material shall be delivered at site within **4 months** from the date of approval of drawing/manufacturing clearance or mutually agreed terms and conditions. Effort should be given by the supplier to minimize the delivery periods. The date of dispatched shall be considered as date of delivery.

3.2 **Dismantling, Retrofitting, Testing and Commissioning Period**: The works shall be completed within 7 days per Unit/sets of CT effective from the date of availing shutdown. However, Dismantling, Retrofitting/Erection, Testing and Commissioning works which shall be done in phase manner/unit wise depending on clearance for availing shutdown of Units or mutually agreed terms and conditions. Prior intimation shall be given in due time and effort will be given from our end to avail the shutdown in a shortest possible time.

3.3 **Accommodation**: Free accommodation shall be provided (food on chargeable basis) at NEEPCO's Guest House to the commissioning engineer/Servicing Team during commissioning & service periods.

4.0 **Contract Performance Guarantee/Security Deposit for Supply, Installation/Retrofitting, Testing and Commissioning**: In line with the Office Memorandum vide No: DPE/7(4)/2017-Fin.(Part-I), dtd.19/11/2020 GOI, Ministry of Heavy Industries & Public Enterprises, the successful bidder shall have to submit Contract Performance Guarantee (CPG) / Bank Guarantee

In lieu of Security Deposit @ 3% of the value of the Contract valid for a period of 90 days from the date of expiry of Guarantee/warranty periods as per our prescribed format as enclosed (Annexure-CPG/SD). The CPG/Security Deposit shall have to submit within a period of 30 days from the date issue of Contract Order.

5.0 **PAYMENT TERMS (For Supply)**

(i) 100% (one hundred percent) of Ex Works Price along with all applicable taxes and duties shall be paid within 30 days after receipt of materials in full and good condition at site subject to submission of Contract Performance Guarantee (CPG)/Bank Guarantee (BG) 3% of the value of Contract having validity for the period of 90 days from date of expiry of guarantee/warrantee period and production of the following documents to the consignee:

(a) Contractor's detailed Invoice.
(b) Detailed packing list
(c) Test certificate and / or duly approved inspection certificate, or proof of waiver of inspection / tests.
(d) Despatch clearance.
(e) Documentary evidence against payment of Taxes and Duties.
(f) Guarantee/ warranty certificate,
(g) Bank account details for e-payment

(ii) Considering the execution of works in phase manner and depending on clearance for availing shutdown of Units, provision for Part payment for part delivery against each complete set of CT shall be allowed if felt necessary by the purchaser.

5.1 **Payment Terms (For Dismantling, Erection/Retrofitting, Testing and Commissioning):**

i) 100%(one hundred percent) of the Contract sum for erection, testing and commissioning along with Price adjustment amount (if any) and 100% taxes and duties shall be paid on pro rata basis against successful completion of works/equipment.

ii) Considering the execution of works in phase manner and depending on clearance for availing shutdown of Units, provision for Part payment for part delivery against each complete set of CT shall be allowed if felt necessary by the purchaser.

6.0 **Guarantee/Warranty**: The materials supplied shall be warranted/guaranteed as per manufacturer's norms or for a period of 18 months from the date of despatch or 12 months from the date of successful commission whichever is earlier against manufacturing defect/ defective workmanship. Defective materials shall be replaced/ rectified by the supplier at free of cost immediately on intimation from this end.

7.0 **Liquidity Damage**: Time is the essence of the Contract. If the performance of the Contract is delayed due to the reason attributed to the Contractor, the Purchaser shall without prejudice to his right to recover damages for breach of the Contract:-

i) Reduce the Contract price by 1/2 %(half percent) per week or part thereof of delay in completion of time subjected to maximum of 10% of the contract price.
ii) Execute or authorize the execution of work departmentally or through any other agency without any notice to the Contractor at the risk and cost of the Contractor. The decision of the Purchaser shall be final and binding upon the Contractor. However, the above action shall be taken without cancelling the contract in respect of work not yet due to execution. Or
iii) Cancel the entire Contract on or portion thereof and if so desired, execute or authorize the execution of the work departmentally or through any other agency at the risk and cost of the Contractor. If the Contractor had defaulted in the performance of the Contract, the Purchaser may ignore the rates quoted by him for respective work even though the lowest for execution through other agency.
iv) Where action is taken under sub-clause (ii) or (iii) above to failure to complete the work, the Contractor shall be liable for any loss, which the Purchaser may sustain on that account. But the Contactor shall not be entitled to any gain on such execution and the manner and method

of such execution shall be in the entire discretion of the Purchaser. It is not be necessary for the Purchaser to serve a notice of such execution of the Contractor.

8.0 **Drawing & Documentation**: After placement of L.O.I and Detailed Order, five Copies of various Drawings, data and write up shall be submitted to the DGM (E/M), PEM, AGBP, NEEPCO Ltd, Bokuloni, Dist.: Dibrugarh, Assam, PIN – 786191 for approval as well as reference as applicable. In all drawings, manuals etc. reference no. of LOA and Detailed Order shall be indicated. The supplier shall, if necessary, modify the drawings and resubmit the modified drawings for purchaser's approval within two weeks from the date of comments.

9.0 **Operational & Maintenance Manual**: The supplier shall have to provide 5 (five) sets of Operation and Maintenance Manuals in binding form, data sheets for each rating of-specified Circuit Breaker along with equipment. The Manuals shall clearly include & indicate the installation methods, installation drawings, instructions a functional description of the equipment with block diagrams, safety precautions, illustrations, step by step operating procedures, and routine maintenance guidelines.

10.0 **Factory Testing**: Before shipment, the manufacturer fully and completely tests the Current Transformers as per relevant standard to assure compliance with the specification.

11.0 **TESTS AT FACTORY AND TEST CERTIFICATES**

All acceptance tests shall be carried out at manufacturer's works as per relevant IS & IEC in presence of the Corporation's representative. In addition to above, all routine tests are also to be carried out on the Current Transformers (CT) as per relevant IS & IEC. The contractor shall give at least 15 (fifteen) days advance notice intimating the actual date of inspection and details of all tests that are to be carried out from the date when the tests will be carried out.
Routine tests report of each CT is to be submitted along with inspection offer. Acceptance test report shall be furnished in Three (3) copies to the *DGM (E/M), PEM, AGBP, NEEPCO, Bokuloni, Dibrugarh –786191.*

12.0 **Dispatch clearance**: No materials shall be dispatched without inspection or otherwise given dispatch clearance by the purchaser in writing to the Supplier.

13.0 **E-way Bill (Road Permit):** E-way bill (Road Permit) may please be generated by the supplier. Our GSTIN NO is '18AAACN9991J3ZP'. No any responsibility will be taken for issuance of E-way bill by the purchaser.

14.0 **Consignee:** The materials with accessories shall be delivered FOR AGBP site at the address i.e. Dy. General Manager (E/M), MMW; AGBP/NEEPCO Ltd, Bokuloni, Dist: Dibrugarh, Assam, PIN – 786191.

15.0 **Paying Authority**: The GM (Fin), AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam.

16.0 **Jurisdiction of Court**: The Contract shall be governed by the laws of India for the time being in force and shall be subjected to the jurisdiction of the High Court of judicature at Guwahati High Court, Assam.

17.0 **Signing of Contract / Agreement**: After issue of the Letter of Intent and on receipt of its unconditional acceptance, the Owner shall issue detailed work order. On acceptance of the detailed work order and acceptance of Contract Performance Guarantee/SD submitted by the successful bidder, the Owner shall prepare the Contract Agreement on Non-Judicial Stamped Paper and the successful bidder will be informed for signing of the Contract Agreement on a notified date. Signing of the Contract Agreement will be done in the office of the Office of the Dy. General Manager (E/M), PEM, AGBP, NEEPCO LTD., Bokuloni, Dibrugarh, Assam.

All the terms and conditions, technical specifications which are not indicated here shall be

item/protective devices/equipment and accessories whether specifically mentioned herein or not, but necessary for completeness and satisfactory performance of the 245KV CT shall be provided.

You are requested to kindly acknowledge the receipt of this Detailed Order and conveyance your acceptance.

Enclosed:
(i) Annexure- A (Price Schedule)
(ii) Annexure- B (Guaranteed Technical Particulars)
(iii)Annexure-C (Technical Specification).
(iv)Annexure-D (Model Forms of BG for SD/CPG).

Thanking you.

Yours faithfully,

31/03/2022

Dinabandhu Baishya
Dy. GM (E/M), PEM,
AGBPS, NEEPCO, Bokuloni
Dist.: Dibrugarh, Assam.

NIO: Memo No. NEEPCO/AGBP/PEM/O&M-01/2022-23/496-501 dated 31/03/2022

1. The CGM (E/M) & HOP, AGBP, NEEPCO Ltd, Bokuloni for kind information please. This is as per Concurrence of project Finance on Evaluation Report of Price Bid conveyed vide FLCM ID: 0033 dated 23.03.2022 (12:47:41 hrs) and subsequent approval accorded vide FLCM ID: 0034 dated 23.3.2022 (16:06:03hrs) against FLCM File Number: Note Sheet/EM/PEM/O&M-01/88/AGBP/09/08//2021.
2. The GM (E/M), C&I and O&AWC, AGBP, Bokuloni- for kind information please.
3. The GM (F & A), AGBP, Bokuloni- for kind information please. This is as per concurrence on Evaluation Report of Price Bid conveyed vide FLCM ID: 0033 dated 23.03.2022 (12:47:41 hrs) against FLCM File No. Note Sheet/EM/PEM/O&M-01/88/AGBP/09/08//2021. Copy of approval is enclosed for your references. The expenditures shall be booked under the additional capitalization.
4. The DGM (E/M), MMW, AGBP, Bokuloni- for kind information please. The expenditures shall be booked under the additional capitalization.
5. The DGM (E/M), Vigilance, AGBP, Bokuloni - for kind information.
6. Office record file O&M-01.

31/03/2022

Dinabandhu Baishya
Dy. Gen. Manager (E/M), PEM,
AGBPS, NEEPCO, Bokuloni
Dist.: Dibrugarh, Assam.

ISO: 9001 – 2015
ISO: 14001 – 2015
OHSMS: 45001 – 2018

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लिमिटेड
(मिनी रत्ना, श्रेणी १, भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Limited,
(Mini Ratna Category - I, Govt. of India Enterprise)
असम गैस बेस्ड पावर प्लांट, का. संयंत्र प्रमुख
Assam Gas Based Power Plant
डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

Ref No.: NEEPCO/AGBP/PEM/O&M-01/2022-23/502 *Dated 31/03/2022*

To,

M/S HIVOLTTRANS ELECTRICALS PVT. LTD.
2202-03, GIDC, Industrial Estate, Halol-389350
Panchmahals, Gujarat.

Copy to: M/S Glucon, Tinsukia, Assam for Installation, Testing and Commissioning works

Sub: Detailed Order for "Design, engineering, manufacturing, supply, delivery, retrofitting/erection, testing and commissioning of 245KV Current Transformer by replacing old existing BHEL make 245KV CT" etc. to AGBPS, NEEPCO Ltd., Bokuloni, Dibrugarh, Assam.

Ref:

1. *Our NIT No: NEEPCO/AGBP/PEM/O&M-01/2021-22/2 dated 04/08/2021 (Tender ID: 2021_NEEPC_84510_1).*
2. *NEEPCO/AGBP/PEM/O&M-01/2021-22/215 dated 4/09/2021 (Corrigendum-1 dated:04/09/2021).*
3. *Your offer/letter vide HEPL/2530/NEEPCO/T-001/2021-22 dated:02/09/2021.*
4. *Our letter vides NEEPCO/AGBP/PEM/O&M-01/2021-22/344 & 345 dated. 23/12/2021.*
5. *Your clarifications vide HEPL/NEEPCO/AGBP/PEM/O&M-01/2021-22/345/231& 232/ dated 28/12/2021.*
6. *Notice vide NEEPCO/AGBP/PEM/O&M-01/2021-2022/396 dated. 16/2/2022.*
7. *Request for extension of validity of offer vide NEEPCO/AGBP/PEM/O&M-01/2021-22/425 dated. 05/3/2022.*
8. *Your letter vide Ref: HEPL/2530/NEEPCO/T-001/235/2021-22 dated:07/03/2022.*
9. *Our letter vide NEEPCO/AGBP/PEM/O&M-01/2021-22/442 dated. 14/03/2022.*
10. *Your letter vide Ref: HEPL/NEEPCO/AGBP/PEM/O&M-01/2021-22/280 dated 15/03/2022.*
11. *Our email dated 21/03/2022.*
12. *Your letter vide Ref: HEPL/NEEPCO/AGBP/PEM/O&M-01/2021-22/293 dated 21/03/2022.*
13. *LOI vide No. NEEPCO/AGBP/PEM/O&M-01/2021-2022/460 dated 23/03/2022.*
14. *Your acknowledgement Vide No. HEPL/NEEPCO/AGBP/PEM/O&M-01/2021-22/294 dated 29/03/2022.*

Sir,

With reference to above, the Corporation is pleased to issue this Detailed Order for "Design, engineering, manufacturing, supply, delivery retrofitting/erection, testing and commissioning of 11 Nos. of new 245KV Current Transformer as per IEC-61869-1&2 (latest version of instrument Transformer) by replacing old existing BHEL make 245KV CT" etc. to AGBP, NEEPCO Ltd. as per terms and conditions mentioned below:

1. <u>SCOPE OF WORKS</u>: Design, Engineering, Manufacture, Inspection and Testing at Manufacturer's works before dispatch of 245 KV Current Transformers, Packing & Forwarding, Supply, delivery Transportation to site, Insurance from the source of supply till commissioning, Material Handling, Loading and unloading, Storage at Site, dismantling of old existing BHEL make 245KV CT, Retrofitting/Erection, Testing and Commissioning of new Current Transformers (CT) in phase manner at AGBP, NEEPCO LTD., Bokuloni, Dibrugarh, Assam as per terms and conditions stipulated in this order.

2.1 <u>Prices</u>: The prices for entire scope of the works shall be as indicated in the Annexure-A (Schedule of Items and Prices). The Prices shall remain FIRM during the currency of this contract. Total

Basic Price for Supply, Dismantling, Retrofitting/ [illegible], Testing, Commissioning Including Mandatory spares shall be for an amount *Rs. 39,41,600 (Rupees thirty-nine lakh forty-one thousand six hundred) and Total Price for same shall be Rs 49,81,088.00 (Rupees forty-nine lakh eighty-one thousand eighty-eight)* only inclusive of all applicable taxes (GST), duties, freight & transit insurance, etc. as detailed in **Annexure-A (Schedule of Items and Prices)**.

5.0 P

2.2 **Insurance coverage**: The supplier shall arrange transit insurance for transportation of the materials till delivery at site, storage at project site, erection, testing and commissioning of the supplied equipment's. The said insurance shall be valid from the date of commencement upto the date of completion of works and shall further provide the defect liability period in respect of all liabilities of the contractor under the contract. In the event of any loss/damage it shall be the responsibility of the contractor to lodge the claim with insurer immediately after occurrence. If the contractor fails to settle the claim, the amount equivalent to the loss/damage shall be recovered from any amount due to the contractor.

2.2 The prevailing rate of GST has been indicated in the Annexure-A (Schedule of Items and Prices). However, the GST shall be applicable as per GST rule at the time of execution subject to submission of GST registration, HSN code and payment details. Kindly submit GST Invoice with all information details as per GST rule.

2.3 **Mandatory Spare**: Mandatory spares as indicated in the Schedule of Items and Prices shall be supplied by the Supplier.

2.4 **Availability of Spares**: Spares for supplied/offered CT shall have available for 25-30 years based on agreed term & conditions and Manufacturer's undertaking.

2.5 **Field Service:** The supplier had to ensure the appropriate technical support service consisting of factory trained Customer Engineers dedicated to the start-up, maintenance and repair of equipment. In case of breakdown of equipment's or urgency, the supplier shall be ensured to provide Technical support service within 48 hrs from the time of intimation during contract periods.

3.0 TIME OF COMPLETION OF CONTRACT:

3.1 Delivery Period: Complete set of equipment/material shall be delivered at site within 12-16 weeks from the date of receipt of drawing approval/manufacturing clearance or mutually agreed terms and conditions. Effort should be given by the supplier to minimize the delivery periods. The date of dispatched shall be considered as date of delivery.

3.2 **Dismantling, Retrofitting, Testing and Commissioning Period**: The works shall be completed within 7 days per Unit/sets of CT effective from the date of availing shutdown. However, Dismantling, Retrofitting/Erection, Testing and Commissioning works which shall be done in phase manner/unit wise depending on clearance for availing shutdown of Units or mutually agreed terms and conditions. Prior intimation shall be given in due time and effort will be given from our end to avail the shutdown in a shortest possible time.

3.3 Accommodation: Free accommodation shall be provided (food on chargeable basis) at NEEPCO's Guest House to the commissioning engineer/Servicing Team during commissioning & service periods.

4.0 Contract Performance Guarantee/Security Deposit for Supply, Installation/Retrofitting, Testing and Commissioning: In line with the Office Memorandum vide No: DPE/7(4)/2017-Fin.(Part-I), dtd.19/11/2020 GOI, Ministry of Heavy Industries & Public Enterprises, the successful bidder shall have to submit Contract Performance Guarantee (CPG)/ Bank Guarantee in lieu of Security Deposit @ 3% of the value of the Contract valid for a period of 90 days from the date of expiry of Guarantee/warranty periods as per our prescribed format as enclosed (Annexure-CPG/SD). The CPG/Security Deposit shall have to submit within a period of 30 days from the date issue of Contract Order..

5.0 PAYMENT TERMS (For Supply)

(i) 100% (one hundred percent) of Ex Works Price along with all applicable taxes and duties shall be paid within 30 days after receipt of materials in full and good condition at site subject to submission of Contract Performance Guarantee (CPG)/Bank Guarantee (BG) 3% of the value of Contract having validity for the period of 90 days from date of expiry of guarantee/warrantee period and production of the following documents to the consignee:

(a) Contractor's detailed invoice.
(b) Detailed packing list
(c) Test certificate and / or duly approved inspection certificate, or proof of waiver of inspection / tests.
(d) Despatch clearance
(e) Documentary evidence against payment of Taxes and Duties.
(f) Guarantee/ warranty certificate,
(g) Bank account details for e-payment

(ii) Considering the execution of works in phase manner and depending on clearance for availing shutdown of Units, provision for Part payment for part delivery against each complete set of CT shall be allowed if felt necessary by the purchaser.

5.1 Payment Terms (For Dismantling, Erection/Retrofitting, Testing and Commissioning):

i) 100%(one hundred percent) of the Contract sum for erection, testing and commissioning along with Price adjustment amount (if any) and 100% taxes and duties shall be paid on pro rata basis against successful completion of works/equipment.

ii) Considering the execution of works in phase manner and depending on clearance for availing shutdown of Units, provision for Part payment for part delivery against each complete set of CT shall be allowed if felt necessary by the purchaser.

6.0 Guarantee/Warranty: The materials supplied shall be warranted/guaranteed as per manufacturer's norms or for a period of 18 months from the date of despatch or 12 months from the date of successful commission whichever is earlier against manufacturing defect/ defective workmanship. Defective materials shall be replaced/ rectified by the supplier at free of cost immediately on intimation from this end.

7.0 Liquidity Damage: Time is the essence of the Contract. If the performance of the Contract is delayed due to the reason attributed to the Contractor, the Purchaser shall without prejudice to his right to recover damages for breach of the Contract:-

i) Reduce the Contract price by 1/2 %(half percent) per week or part thereof of delay in completion of time subjected to maximum of 10% of the contract price.
ii) Execute or authorize the execution of work departmentally or through any other agency without any notice to the Contractor at the risk and cost of the Contractor. The decision of the Purchaser shall be final and binding upon the Contractor. However, the above action shall be taken without cancelling the contract in respect of work not yet due to execution. Or
iii) Cancel the entire Contract on or portion thereof and if so desired, execute or authorize the execution of the work departmentally or through any other agency at the risk and cost of the Contractor. If the Contractor had defaulted in the performance of the Contract, the Purchaser may ignore the rates quoted by him for respective work even though the lowest for execution through other agency.
iv) Where action is taken under sub-clause (ii) or (iii) above to failure to complete the work, the Contractor shall be liable for any loss, which the Purchaser may sustain on that account. But the Contactor shall not be entitled to any gain on such execution and the manner and method of such execution shall be in the entire discretion of the Purchaser. It is not be necessary for the Purchaser to serve a notice of such execution of the Contractor.

8.0 Drawing & Documentation: After placement of L.O.I and Detailed Order, five Copies of various Drawings, data and write up shall be submitted to the DGM (E/M), PEM, AGBP, NEEPCO Ltd, Bokuloni, Dist.: Dibrugarh, Assam, PIN – 786191 for approval as well as reference as applicable.

In all drawings, manuals etc. reference no. of LOA and Detailed Order shall be indicated. The supplier shall, if necessary, modify the drawings and resubmit the modified drawings for purchaser's approval within two weeks from the date of comments.

9.0 **Operational & Maintenance Manual**: The supplier shall have to provide 5 (five) sets of Operation and Maintenance Manuals in binding form, data sheets for each rating of-specified Circuit Breaker along with equipment. The Manuals shall clearly include & indicate the installation methods, installation drawings, instructions a functional description of the equipment with block diagrams, safety precautions, illustrations, step by step operating procedures, and routine maintenance guidelines.

10.0 **Factory Testing**: Before shipment, the manufacturer fully and completely tests the Current Transformers as per relevant standard to assure compliance with the specification.

11.0 TESTS AT FACTORY AND TEST CERTIFICATES

All acceptance tests shall be carried out at manufacturer's works as per relevant IS & IEC presence of the Corporation's representative. In addition to above, all routine tests are also to be carried out on the Current Transformers (CT) as per relevant IS & IEC. The contractor shall give at least 15 (fifteen) days advance notice intimating the actual date of inspection and details of all tests that are to be carried out from the date when the tests will be carried out.
Routine tests report of each CT is to be submitted along with inspection offer. Acceptance test report shall be furnished in Three (3) copies to the *DGM (E/M), PEM, AGBP, NEEPCO, Bokuloni, Dibrugarh –786191.*

12.0 **Dispatch clearance**: No materials shall be dispatched without inspection or otherwise given dispatch clearance by the purchaser in writing to the Supplier.

13.0 **E-way Bill (Road Permit):** E-way bill (Road Permit) may please be generated by the supplier. Our GSTIN NO is '18AAACN9991J3ZP'. No any responsibility will be taken for issuance of E-way bill by the purchaser.

14.0 **Consignee:** The materials with accessories shall be delivered FOR AGBP site at the address i.e. Dy. General Manager (E/M), MMW; AGBP/NEEPCO Ltd, Bokuloni, Dist: Dibrugarh, Assam, PIN – 786191.

15.0 **Paying Authority**: The GM (Fin), AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam.

16.0 **Jurisdiction of Court**: The Contract shall be governed by the laws of India for the time being in force and shall be subjected to the jurisdiction of the High Court of Judicature at Guwahati High Court, Assam.

17.0 **Signing of Contract / Agreement**: After issue of the Letter of Intent and on receipt of its unconditional acceptance, the Owner shall issue detailed work order. On acceptance of the detailed work order and acceptance of Contract Performance Guarantee/SD submitted by the successful bidder, the Owner shall prepare the Contract Agreement on Non-Judicial Stamped Paper and the successful bidder will be informed for signing of the Contract Agreement on a notified date. Signing of the Contract Agreement will be done in the office of the Office of the Dy. General Manager (E/M), PEM, AGBP, NEEPCO LTD., Bokuloni, Dibrugarh, Assam.

18.0 All the terms and conditions, technical specifications which are not indicated here shall be governed as per Bid documents and agreed terms and conditions. Further, any other necessary item/protective devices/equipment and accessories whether specifically mentioned herein or not, but necessary for completeness and satisfactory performance of the 245KV CT shall be provided.

You are requested to kindly acknowledge the receipt of this Detailed Order and conveyance your acceptance.

Enclosed:

(i) Annexure- A (Price Schedule)
(ii) Annexure- B (Guaranteed Technical Particulars)
(iii) Annexure-C (Technical Specification).
(iv) Annexure-D (Model Forms of BG for SD/CPG).

Thanking you.

Yours faithfully,

31/03/2022

Dinabandhu Baishya
Dy. GM (E/M), PEM,
AGBPS, NEEPCO, Bokuloni
Dist.: Dibrugarh, Assam.

NIO: Memo No. NEEPCO/AGBP/PEM/O&M-01/2022-23/503-508 dated 31/03/2022

1. The CGM (E/M) & HOP, AGBP, NEEPCO Ltd, Bokuloni for kind information please. This is as per Concurrence of project Finance on Evaluation Report of Price Bid conveyed vide FLCM ID: 0033 dated 23.03.2022 (12:47:41 hrs) and subsequent approval accorded vide FLCM ID: 0034 dated 23.3.2022 (16:06:03hrs) against FLCM File Number: Note Sheet/EM/PEM/O&M-01/88/AGBP/09/08//2021.
2. The GM (E/M), C&I and O&AWC, AGBP, Bokuloni- for kind information please.
3. The GM (F & A), AGBP, Bokuloni- for kind information please. This is as per concurrence on Evaluation Report of Price Bid conveyed vide FLCM ID: 0033 dated 23.03.2022 (12:47:41 hrs) against FLCM File No. Note Sheet/EM/PEM/O&M-01/88/AGBP/09/08//2021. Copy of approval is enclosed for your references. The expenditures shall be booked under the additional capitalization.
4. The DGM (E/M), MMW, AGBP, Bokuloni- for kind information please. The expenditures shall be booked under the additional capitalization.
5. The DGM (E/M), Vigilance, AGBP, Bokuloni - for kind information.
6. Office record file O&M-01.

31/03/2022

Dinabandhu Baishya
Dy. Gen. Manager (E/M), PEM,
AGBPS, NEEPCO, Bokuloni
Dist.: Dibrugarh, Assam.

Ref: NEEPCO/AGBP/PEM/O&M-12/20-21/ Dated:02/04/2020

To,

M/s Everlite Engineering Industries
Everlite House, Lalpull
P.O: Panitola
Assam-786183
FAX 0374-2310126; Phone: 03742318504/2316579
Email: EVERASSAM1@GMAIL.COM; vsingh_viru@rediffmail.com

Sub: Detailed Order (No. ***39NBJ123*** dated 30/03/2019) for supply, installation, testing and commissioning of standalone DR &EL for all GE make MICOM Relays of AGBP, NEEPCO Ltd.

Ref:
1. Enquiry vide letter no. NEEPCO/AGBP/ PEM/O&M-12/19-20/335 dated 19/08/2019
2. Offer vide SUT/NEEPCO/AGBPP/EL & DR dated. 04-09-2019.
3. Our letter requesting clarification NEEPCO/AGBP/PEM/O&M-12/19-20/493 Dated 05/02/2020.
4. Reply vide SUT/NEEPCO/AGBPP/EL & DR/Clarification dated. 24-02-2020.
5. Our email requesting clarification dated. 27/02/2020.
6. Reply vide email dated. 27/02/2020
7. Our email requesting clarification dated. 25/03/2020.
8. Confirmation vide email dated. 25/03/2020
9. Our LOI vide letter no. NEEPCO/AGBP/ PEM/O&M-12/19-20/604 dated 28/03/2020
10. Your acceptance vide EEIT&SR2008/NEEPCO-AGBPP/2020/20100 dated 31.03.2020 conveyed vide email dated 01.04.2020

Dear Sirs,

With reference to the above, the corporation is pleased to issue the detailed Purchase Order (No. ***39NBJ123 dated 30/03/2019)*** for supply, installation, testing and commissioning of standalone DR &EL for all GE make MiCOM Relays of AGBP, NEEPCO Ltd as per following terms and conditions:

TERMS AND CONDITIONS:

1. **Price:** - Total basic price for supply, installation, testing and commissioning of standalone DR &EL for all GE make MiCOM Relays shall be Rs. 40,70,000.00 (Rupees Forty Lakh Seventy Thousand) only as detailed in Annexure-A. The price is FOR Ex-Works Chennai basis and exclusive of GST, Freight, Insurance and all other applicable taxes. The prices shall remain "FIRM" till completion of commissioning (works).

2. **Freight & Transit Insurance:** - Materials have to transport through reputed transporter/courier service. Freight charges shall be paid extra at actual against submission of documentary evidence and restricted @2% of basic price. *The transit insurance shall be arranged by NEEPCO under NEEPCO's Marine Open Policy & the Firm has to intimate to the undersigned/ Consignee before dispatch for issuance of Transit Insurance.*

3. **Taxes and Duties:** All applicable taxes and duties shall be paid extra at actual at the time of execution as per Govt. prevailing norms. (Present rate of GST @ 18%for supply and service). GST shall be applicable subject to submission of GST details. ***Our (Assam Gas Based Power Plant) GSTIN and PAN is '18AAACN9991J3ZP'and 'AAACN9991'. HSN code 85176290 & SAC Code 998736.***

4. **Scope of Work: -**

   A. Supply Part: -The scope will include supply of materials as detailed in Annexure-A.

   Supply of required wiring materials (i.e. wires, ferrules, lugs, Terminal blocks) for successful commissioning of Disturbance Recorder and Event Logger during site activities will be supplied free of cost.

   B. Service Part: Scope of works under service shall include the followings: -
   i. Freezing of data list, creation and submission of project documents such as System Architecture, communication cable structure, I/O list and site implementation plan as per documents provided by us.
   ii. Completion of project as per schedule.
   iii. GE shall offer its expertise in design and engineering for Event Logger and Disturbance Recorder system.
   iv. Testing and commissioning of new EL scheme.
   v. GE shall be responsible for factory design and site implementation.

vi. GE shall supply the required software and hardware for the project.
vii. GE shall provide support during warranty period of the system. The warranty period shall cover both the hardware and software supplied under the project except physical damages of the database after SAT.
viii. Auxiliary Relay /Lock Out Relay/CMR are not included in the offer
ix. Time synchronization in the C-264 unit shall be achieved through IRIG-B modulated signal to be provided by us.
x. Power Supply to DC system and Auxiliary Supply to the system will be provided by us.
xi. Supply and termination of control and CT Cables outside to the protection panels/cubicle are not included in the scope of the work.
xii. All the drawing and System Architecture are to be submitted after receipt of the purchase order.
xiii. Any modifications which pertain to the switch gear controls are excluded in the offer. Painting of existing panel or replacement of entire panel is not considered under the scope of contract.
xiv. M/s GE confirmed to supply all necessary materials, required wires, ferrules, lugs, terminal blocks free of cost.
xv. Supply of any additional C264/or equipment will be on chargeable basis.
xvi. Onsite Training on DR &EL will be provided during commissioning at free of cost.

5. **Technical specification and Drawing:** On receipt of this order and prior to commencement of commissioning activities, a copy each of project documents such as System Architecture, communication cable structure, I/O list and site implementation shall be submitted to this office for reference. You are also requested to submit modified final drawings if any modification is required during commissioning. (indicating the modification(s)).

6. **Terms of Payment:**
   a. **For Supply**

      100% (one hundred percent) payment against supply of the materials along with taxes and duties at actual shall be released within 30 days on receipt of the materials at AGBP site in full and good condition and against submission of the following dispatch documents:
      a) Bill in triplicate,
      b) Challan/LR,
      c) Guarantee /Warrantee Certificate,
      d) Test/ Inspection Certificate
      e) Bank account details for e- payment (as per format enclosed),

   b. **For Works**

      100% payment with taxes applicable will be released on successful Commissioning completion of each relays (part payment) against submission of:
      a) Bill in triplicate,
      b) Work completion report,
      c) Final as Built drawing

7. **Security Deposit/Bank Guarantee:** The supplier has to be submitted Performance Bank Guarantee cum security deposit @ 10% of ex-work material value in prescribed format from a reputed and registered bank having a validity of 90 days after expiry of the guarantee period within 20 days. The SD/BG from issue of the purchase order on fulfilment of all the terms and conditions.
8. **Delivery:** The materials shall be delivered within 12 (Twelve) weeks of from the date of drawing/BOQ approval at Assam Gas Based Power Plant site, NEEPCO Ltd., P.O Bokuloni Chariali, District Dibrugarh, Assam-786191. However, effort should be given to shorten the delivery period.
9. **Guarantee/Warranty:** The materials supplied will be guaranteed for a period of 12(twelve) months from the date of commissioning or 18(eighteen) months from the date of supply, whichever is earlier. The supplier will submit the Guarantee/Warranty certificate of all the numerical relays along with the material/invoice.
10. **Testing and Inspection:** The Event logger will undergo all the required tests as per the relevant IS codes. The supplier will submit the Test certificate of Event Logger along with the material/invoice.
11. **Commissioning:** Commissioning of the DR &EL at site will be carried out as mentioned in the offer of your principal M/s GE T & D India Ltd., Kolkata and as per the rates mentioned in annexure-1. For this no separate order shall be issued. The supplier will coordinate with their principal M/s GE T & D India Ltd., Kolkata for commissioning of the DR &EL and completion of the job on time.

You will be intimated at least 15 (fifteen) days advance of the commencement of commissioning for your necessary arrangement.

12. **Accommodation:** NEEPCO will provide accommodation to the commissioning Engineer/Team at site (Guest House) free of cost. However, the food shall be on chargeable basis as per our standard rate.
13. **Liquidated damage:** In case you fail to deliver the materials within the contractual delivery period due to reason attributed to you, then the Corporation shall reserve the right to recover from your sum towards liquidated damages @ 1/4%(one forth percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the scheduled delivery date. The total recovery from you on account of this shall, however, not exceed 5% (five percent) of the value of the undelivered portion of supply. However, the LD clause will not be imposed if you fail to deliver the materials within the scheduled delivery period due to Force Majeure conditions which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquakes, storms, floods, explosion or fire not caused by your negligence, lightning, act of God, public enemy which is of such nature as to delay, curtail or prevent timely action by either party.
14. **Rejection of defective materials:** If the materials are found defective at the time of receipt, the same shall be rejected and the supplier shall have to replace the same at their cost.
15. **Consignee:** DGM (E/M), Material Management Wing, AGBP, NEEPCO Ltd., P.O. Bokuloni Chariali, District Dibrugarh, Assam-786191.
16. **Paying authority:** The DGM (F), F&A Wing, AGBP, NEEPCO Ltd., P.O Bokuloni Chariali, District Dibrugarh, Assam-786191.

Kindly acknowledge receipt of this order and confirm your acceptance thereof.

Thanking you,

Yours faithfully,

02/04/2020

DGM (E/M), PEM
AGBP, NEEPCO Ltd.

Memo no. NEEPCO/AGBP/PEM/O&M-12/20-21/ Dated: 02/04/2020

Copy to:

1. M/s G E T & D India Ltd. Kolkata,
   DLF IT Park, Premises No. 8
   Major Arterial Road, Block 'AF', Tower-C, 8th floor
   New Town Rajarhat, Kolkata-700 156
   Fax: 033-400 97043

02/04/2020

DGM (E/M), PEM
AGBP, NEEPCO Ltd

NIO

Memo no: NEEPCO/AGBP/PEM/O&M-12/20-21/ 03-08 **Date:** 02/04/2020

Copy to:

1 The Head of Project, AGBP : For kind information please. This is as per concurrence of Project Finance on 26/03/2020 and subsequent approval from competent authority vide U.O no. NEEPCO/HOP/2860 dated 28/03/2020.
2 The DGM (E/M), O&AWW : For kind information please.
3 The DGM(E/M), MMW : For kind information please.
4 The DGM (F), F&A Wing : For kind information please. Photocopy of the approval enclosed herewith.
5 The DGM (C), Vig. Wing. : For information please. Photocopy of the approval enclosed herewith.
6 O&M-12 file

02/04/2020

DGM (E/M), PEM
AGBP, NEEPCO Ltd

(मिनी रत्ना, श्रेणी I, भारत सरकार का उद्यम)
North Eastern Electric Power Corporation Limited,
(Mini Ratna Category – I, Govt. of India Enterprise)
असम गैस बेस्ड पावर प्लांट, का॰ संयंत्र प्रमुख
Assam Gas Based Power Plant
डिब्रुगढ़, असम, Dist. Dibrugarh (Assam)

ISO: 9001 – 2015
ISO: 14001 – 2015
OHSMS: 45001 – 2018

No. NEEPCO/AGBP/PEM/O&M-12/2022-23/81 dated:20/08/2022

To,

M/s Everlite Engineering Industries
Everlite House, Laipuli
P.O.: Panitola, Assam- 786183
FAX 0374-2310126; Phone : 0374-2318564/ 2316579
Email: EVERASSAM1@GMAIL.COM; vsingh viru@rediffmail.com

Sub: Procurement of additional materials required for commissioning of Event Logger.

Ref: -
1. Work order No. NEEPCO/AGBP/PEM/O&M-12/20-21/01 Dtd. 02-04-2020
2. Visit Document and MOM in between NEEPCO & GE T&D India Ltd. Dtd. 30.03.2020
3. Your offer No. NEEPCO/AGBPP/RELAY RETRO21029 Dtd. 23.03.2022
4. Our letter for clarification vide NEEPCO/AGBP/PEMO&M-12/22-23/064 dated 07.05.2022
5. Your Email dated 18-05-2022 & 23-05-2022
6. Our Email dated 03-06-2022; 14-06-2022 & 10-08-2022
7. Your Email dated 25-06-2022; 29-06-2022 & 12-08-2022

Dear Sir,

With reference to above, Corporation is pleased to place this order for supply of additional items for completion of installation, testing and commissioning of standalone DR & EL for all GE make MiCOM Relays against the work order placed, vide. NEEPCO/AGBP/PEM/O&M-12/20-21/001 dated 02/04/2020 as per terms and conditioned mentioned below:

1. Schedule of Items and prices

Sl No.	Specification	UN	Qty	Unit price (Rs)	Total Amount (Rs.)
1	Contact Multiplication relay with base.	No	50	1,500.00	75,000.00
2	CMR Channel	No	20	500.00	10,000.00
3	1.5 sq. Mm Copper lug	No	1000	3.00	3000.00
4	1.5 sq. mm × 14 Core copper control cable	Meter	550	430.00	2,36,500.00
5	1.5 sq. mm × 19 core copper control cable	Meter	1150	565.00	6,49,750.00
6	Fiber Optic Cable	Meter	400	125.00	50,000.00
A				Sub Total Amount	10,24,250.00
B				Discount@3%	30,727.50
C				Basic Amount after discount	9,93,522.50
	Rupees Nine Lakh Ninety-three Thousand Five Hundred Twenty-Two and Fifty Paise.				

2. Terms & Conditions:

a) **Price:** The Prices mentioned above is for Ex- Works Chennai basis and exclusive of GST, Freight, Insurance and all other applicable taxes. The Price shall remain "FIRM" till completion of supply.

b) **Freight & Transit Insurance:** Materials have to be transported ... Supplier's transporter/courier service. Freight charges shall be paid extra at actual against submission ... documentary evidence and restricted to @2% of basic price.

c) **Taxes and duties:** All applicable taxes and duties shall be paid extra at the time of execution as per Govt. prevailing norms. (Present rate of GST@18%). GST shall be applicable subject to submission of GST details. Our (Assam Gas Based Power Station) GSTIN and PAN is '18AAACN9991J3ZP' and 'AAACN9991J'.

d) **Terms of Payment:** 100% payment against supply of materials along with taxes and duties at actual shall be released within 30 days on receipt of materials at AGBPS site in full and good condition.

e) **Delivery:** The materials shall be delivered within 16 (sixteen) weeks from the date of receipt of the Order. However, effort should be given to shorten the delivery period.

Delivery Date : 10/12/2022

f) **Guarantee/Warrantee:** The materials supplied will be guaranteed for a period of 12(twelve) months from the date of commissioning or 18 (eighteen) months from the date of supply, whichever is earlier. The supplier will submit the guarantee/warrantee certificate of the materials along with the Invoice.

g) **Rejection of defective materials:** If the materials are found defective at the time of receipt, the same shall be rejected and the supplier shall have to replace the same at their cost.

h) **Paying Authority:** The General Manager (Fin), F & A Wing, AGBP, NEEPCO Ltd., P.O. Bokuloni Chariali, Dist. Dibrugarh, Assam. PIN: 786 191.

i) **Consignee:** The Dy. General Manager (E/M), MM Wing, AGBP, NEEPCO Ltd., P.O. Bokuloni Chariali, Dist. Dibrugarh, Assam. PIN: 786 191.

Yours Faithfully,

DGM(E/M), PEM
AGBP, NEEPCO Ltd., Bokuloni.

Memo No: NEEPCO/AGBP/PEM/O&M-08/2022-23/82 dated:20/08/2022

Copy to:

1. The M/s GE T&D India Limited
   DLF IT Park, Premises No. 8
   Major Arterial Road, Block 'AF'. Tower – C, 8th Floor
   New Town Rajarhat, Kolkata – 700 156.

NIO

Memo No: NEEPCO/AGBP/PEM/O&M-08/2022-23/83-87 dated:20/08/2022

Copy to: -

1. The CGM & Head of Project, AGBP, for kind information please. This is issued as per Finance Concurrence through FLCM ID No. 030 dated 17/08/2022 and approval vide FLCM ID No. 031 against File No. Note Sheet/EM/PEM/O&M-12/45/AGBP/18/04/2022.
2. The GM (Fin), F & A Wing, AGBP, NEEPCO Ltd., Bokuloni- for kind information please. A copy against FLCM File No. Note Sheet/EM/PEM/O&M-12/45/AGBP/18/04/2022.
3. The DGM (E/M) MM wings, AGBP, NEEPCO Ltd., Bokuloni – for kind information and necessary action please.
4. The Sr. Manager (Civil), Vigilance Wing, AGBP, NEEPCO Ltd. Bokuloni, for kind information please.
5. Purchase Order File.

FLCM (DAAK): NEEPCO/304/PEM/2022 dtd 22/08/2022

DGM(E/M), PEM

रजिस्ट्री सं० डी० एल०-33004/99

REGD. NO. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

असाधारण
EXTRAORDINARY
भाग III—खण्ड 4
PART III—Section 4
प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 211] नई दिल्ली, शुक्रवार, अगस्त 20, 2010/श्रावण 29, 1932
No. 211] NEW DELHI, FRIDAY, AUGUST 20, 2010/SHRAVANA 29, 1932

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 20th August, 2010

No. CEA/TETD/MP/R/01/2010.—In exercise of the powers conferred by sub-section (2) of Section 177 of the Electricity Act, 2003, the Central Electricity Authority hereby makes the following regulations namely :—

1. **Short Title and Commencement.**—(1) These regulations may be called the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2010.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. **Definitions.**—(1) In these regulations, unless the context otherwise requires,—

(a) "Act" means the Electricity Act, 2003;

(b) "Authority" means the Central Electricity Authority established under sub-section (2) of Section 70 of the Act;

(c) "Base Load Operation" means operation at maximum continuous rating (MCR) or its high fraction;

(d) "Basic Insulation Level (BIL)" means reference voltage level expressed in peak (crest) voltage with standard 1.2/50 μs lightning impulse wave. Apparatus should be capable of withstanding test wave of basic insulation level or higher;

(e) "Black Start" means the start up of a generating unit or gas turbine or internal combustion (IC) engine based generating set without use of external power following grid failure;

(f) "Boiler Maximum Continuous Rating (BMCR)" means the maximum steam output, the steam generator (boiler) can deliver continuously at rated parameters;

(f) *SF_6 Filling, Evacuation, Filtering, Drying & Recycling Plant*

SF_6 filling, evacuation, filtering, drying and recycling plant with adequate storage capacity shall be provided at a new sub- station or new switchyard or for a cluster of sub-stations and switchyards along with trolley for filling or evacuation of SF_6 circuit breaker or gas insulated switchgear (in case of GIS installation) and to monitor the purity, moisture content, decomposition product etc. of SF_6 gas.

(4) Protection and control

(a) *Protective Relaying System*

Adequately sectionalized and graded protective relaying system shall be provided for transmission lines, transformers and bus bars so as to automatically isolate the faulty equipment and, thus, minimize the damage to the equipment in the event of faults and abnormal conditions. All main protection relays shall be of numerical type and communication protocol shall be as per IEC-61850/ relevant IS.

(b) *Grouping of Protection*

(i) The protection functions shall be subdivided into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing. Wherever two sets of DC sources are available, the relays shall be electrically and physically segregated into two groups (Gr. A and Gr. B) to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service. Grouping shall be done to the extent possible in such a way that each group can independently carry out protective functions with near equal redundancy. Interconnection between these two groups shall not generally be attempted. However, if found absolutely necessary such interconnection shall be kept to the bare minimum.

(ii) Even in cases when only one battery source is available, segregation of protection and trip circuits in two groups may be considered by giving DC supplies through separate fuses.

(c) The protection in respect of transmission lines, transformers, reactors and bus bars are indicated in Schedule- V.

(d) *Disturbance Recorders, Event Loggers and Time Synchronisation Equipment*- Each 765kV, 400 kV and 220 kV line shall be provided with facility for disturbance recording, distance to fault locator and time synchronising equipment (TSE). Event logger either stand alone or as part of sub- station or switchyard automation system shall be provided for each 220kV and higher voltage class sub-

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)
असम गैस आधारित शक्ति संयंत्र
बकुलोनी, जिला- डिब्रूगढ़, असम, पिन - 786 171

North Eastern Electric Power Corporation Ltd.
(A Govt. of India Enterprise)
ASSAM GAS BASED POWER PLANT
BOKULONI, DIST. DIBRUGARH, Assam, PIN - 786 171

NO: NEEPCO/AGBPS/C&I/T-48/2022-23/ 96 Dt.05/07/2022.

To
M/s TJA ENGINEERING & TRADING CO.
FLAT NO.109 C-1, BLOCK ABCD,
PALM GROVE ENCLAVE, NEAR CAPUCHIN HOUSE,
JURIPAR PATH, PANJABARI ROAD,
PIN-781022, GUWAHATI, ASSAM

Sub:→ Purchase Order for Upgradation of SWA-System of Module-1 at Assam Gas Based Power Station (AGBPS), NEEPCO LTD., Bokuloni, Dibrugarh.

Our Ref: 1) Tender ref: AGBP/CnI/T-48/2021-22/NIQ 01 dtd 02/12/2021.
2) E-tendering ID: 2021_NEEPC_95907_4.
Your ref: 1) Online Bid No: 375784 dtd 25/01/2022.
2) E-mail ref regarding final price dtd 18.06/2022.

Dear Sir,

Inviting reference to the above the Corporation is pleased to place this purchase order for Upgradation of SWA-System of Module-1 by Design, Supply, Installation and Commissioning at Assam Gas Based Power Station (AGBPS), NEEPCO LTD., Bokuloni, Dibrugarh, Assam.
The complete sampling system shall be as below consisting of 02(two) sections 1(a) & 1(b).

1) Sampling table for module-1 shall be as below.

S/N	Sampling lines	DM make-up water	CEP/ Con'sate	De'tor I/L	Eco'er/ Boiler feed water-1 & 2	Boiler Drum 1 & Boiler Drum 2	Boiler Super-heater 1 & 2	Main steam-1 & 2	Total
1	Conductivity (Specific)	1	1	0	2	2	0	0	6
2	Conductivity (Cation)	0	1	0	0	0	2	2	5
3	pH,	0	1	0	2	2	2	2	9
4	Dissolved oxygen	0	1	1	0	0	0	0	2
5	Phosphate	0	1	0	2	2	2	2	9
6	Silica	0	1	0	2	2	2	2	9
7	Ammonia (NH3)	0	1	0	2	0	0	0	3
8	Hydrazine (N2H4)	0	1	0	2	0	0	0	3
9	Total	0	1	0	2	2	2	2	9

	hardness								
10	TDS	0	0	0	0	2	0	0	2
11	Grab	1	1	1	2	2	2	2	11
	Total	2	10	2	16	14	12	12	68

1(a) Combination of Wet panel & Dry Panel as per A & C of BOM must be capable to measure following samples inside Steam Turbine building.

S/N	Parameters to be measured	DM make-up water	CEP/ Condensate	Deaerator I/L	Total
1	Conductivity (Specific),	1	1	0	2
2	Conductivity (Cation),	0	1	0	1
3	pH,	0	1	0	1
4	Dissolved oxygen,	0	1	1	2
5	Phosphate	0	1	0	1
6	Silica	0	1	0	1
7	Ammonia (NH3)	0	1	0	1
8	Hydrazine (N2H4)	0	1	0	1
9	Total hardness	0	1	0	1
10	TDS, 1-ch	0	0	0	0
11	Grab	1	1	1	3
	Total	2	10	2	14

1(b) Combination of Wet panel & Dry Panel as per B & D of BOM must be capable to measure following sample near boilers.

S/N	Parameters to be measured	Economizer/ Boiler feed water-1 & 2	Boiler Drum 1 & 2	Super-heater-1 & 2	MS-1 & 2	Total
1	Conductivity (Specific)	2	2	0	0	4
2	Conductivity (Cation)	0	0	2	2	4
3	pH,	2	2	2	2	8
4	DO2	0	0	0	0	0
5	Phosphate	2	2	2	2	8
6	Silica	2	2	2	2	8
7	Ammonia	2	0	0	0	2
8	Hydrazine	2	0	0	0	2
9	Total hardness	2	2	2	2	8
10	TDS, 1-ch	0	2	0	0	2
11	Grab	2	2	2	2	8
	Total	16	14	12	12	54

- **Scope** of Supply, Services and other terms & conditions shall be as below and as per Annexure: 1.

Sl	Description/HSNC	Unit quoted rate (₹)	Qty	Discounted Final Price (₹)

1	**Supply part**			
1a	Supply of SWA-system for Midule-1	1,69,60,520.00	1.00 lot	1,64,51,704.40
1b	Mandatory spares required for smooth operation for minimum 1-years as per BOM.	5,78,000.00	1.00 lot	5,78,000.00
2	**Service Part**			
2a	Installation and commissioning of SWA-system for Midule-1.	66,500.00	1.00 lot	66,500.00
2b	AMC for 2-yrs with quarterly mandatory visit & Servicing.	33,250.00	8.00 lot	2,66,000.00
A	Freight on Supply of SWA-system.	2,25,000.00	1.00 lot	Waived off
B	Freight on Supply of Mandatory spares	15,000.00	1.00 lot	Waived off
C	Total Discount			(-) 7,48,815.60
	TOTAL (₹)			1,73,62,204.40
>>₹. 1,73,62,204/-(Rupees One Crore, Seventy-Three Lac, Sixty-Two thousand, Two hundred and Four) only.				

Terms & Conditions:-

1. **Scope of Supply:** As per Annexure: 1. Supplier has to submit fresh P & I, Wiring and other engineering drawing after acceptance of P.O. Based on remarks, approval of AGBPS, NEEPCO, supplier can start the manufacturing process.
2. **Scope of Services:** Installation and Commissioning of the system in module-1. Supplier shall be liable to maintain the system for 02(two) years with quarterly mandatory visit after completion of Warranty period. Each on-call duty shall be considered as a mandatory visit.
3. **Price Basis:-** Total Price as shown above is in INR and on AGBPS, NEEPCO basis including P&F and Freight.
4. **P&F: Nil.**
5. **Payment terms:-** (i) 90% payment of supply with 100% taxes shall be paid after receipt of materials in full and good condition,
   (ii) Balance 10% of supply shall be paid after successful installation and commissioning of the system.
   iii) **For Services:** 100% payment of services shall be made only after successful installation & commissioning of the system.
   iv) **Service charges for AMC:** 100% payment shall be made only after successful visit of Service engineer.

Supplier shall submit following documents for on time payment.

a) GST Bill/ Invoice in triplicate.
b) Bank details in RTGS mandate format.
c) Warranty/Guaranty certificate

d) Delivery Challan etc in case of supply.
e) Test certificate in case of supply.

6. **Taxes**: GST @18% extra shall be paid by NEEPCO. **Our GST No:** 18AAACN9991J3ZP & GST of supplier: 18AIEPG5476C1ZD.
7. **Shipment, Freight & Insurance**: Freight charge is inclusive in above prices.
8. **Indian Insurance** up to Project site AGBPS, NEEPCO Ltd shall be covered against our open marine insurance policy. Dispatch details of the materials must be sent in advance to the Consignee/Division for arranging necessary insurance coverage.
9. **LD**: Applicable for delay in delivery of material(s) @0.5% per week subject to maximum of 5% as per e-mail dtd 30th April'22.
10. **CPG or SD**: Applicable and the same is equivalent to 3% of basic value of 1st P.O. which shall be extended for the 2nd P.O. as well (No additional BG shall be submitted for 2nd P.O.) Alternatively, equivalent amount shall be deducted from the bill/invoices to cover-up warranty period as per meeting dtd 18/6/2022 of Price negotiation.
11. **Site accommodation**: Accommodation for Service Engineer(s) shall be provided by NEEPCO during commissioning of the system as well as during the period of AMC. Local conveyance from & to the nearest Airport or Railway station shall be arranged by NEEPCO as per meeting of Price negotiation dtd 18/6/2022.
12. **Delivery Period**: Within 12-weeks from the date of receipt of techno-commercially acceptable P.O. However, you are requested to explore the possibility to reduce the delivery period.
13. **Mode of Transportation**: The supplier shall deliver the materials to **The Consignee** at AGBPS, NEEPCO Ltd, Bokuloni, Dibrugarh, Assam, Pin-786191 through a reputed transporter on Freight paid basis.
14. **Warranty**: 12 months from the date of commissioning or 18 months from the date of dispatch whichever is earlier. Guarantee/Warranty are not applicable for Spares, Reagents, Accessories and Consumables.
15. **Order for Module-2**: The Corporation shall place the purchase order for Module-2 with the same Price and T & C only after successful completion of installation & commissioning of Module-1.
16. **Consignee**: - The DGM(E/M), Material Management Wing (MMW), AGBPS, NEEPCO Ltd; Bokuloni, Dibrugarh, Assam, Pin-786191, Ph-(0374) 2825411.
17. **Delivery destination**:- Assam Gas Based Power Station(**AGBPS**), NEEPCO Ltd, Bokuloni, District: Dibrugarh (Assam), PIN: 786-191,.

Kindly convey your acceptance of this P.O.

Thanking you.

Your faithfully,

GM (E/M), C&I Division
AGBPS, NEEPCO Ltd, Bokuloni,
Dibrugarh, Assam.

Memo No: NEEPCO/AGBPS/C&I/T-4व/2022-23/ ५८-१०१ · **Dt.05/07/2022.**

1) The HOP, AGBPS, NEEPCO Ltd for favour of information pl. This has your kind approval through FLM dtd. 01/7/2022.
2) The GM (Fin), AGBPS, NEEPCO Ltd for kind necessary action please.
3) The DGM (E/M), MMW, AGBPS, NEEPCO Ltd for necessary action please.
4) The Sr. Manager (Civil), Vigilance, AGBPS, NEEPCO Ltd for information please.
5) T-4व/Tender file/Guard file.

GM (E/M), C&I Division
AGBPS, NEEPCO Ltd.

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Annexture-1

Ref: NEEPCO/AGBPS/C&I/T-48/2022-23/ Dt 05/07/2022

Schedule of Items & Prices

S/N	Item description	Unit Price in Rs.	Qty	Total Amt in Rs
1	**Supply of SWA-system for Midule-1**	1,64,51,704/-	1.00 lot	1,64,51,704/

S/N	ITEM DESCRIPTION	UNITS	QTY PER SET
1	SAMPLE HANDLING SYSTEM		
A	FREE FRAME STANDING WET PANEL STG BUILDING (RACK A): i) DM make-up water ii) CEP/ Condensate iii) Deaerator I/L Supply of 3 Lines Sample Conditioning System as per above for continuous online analysis, mounted over a free-standing rack type with structural framework of CRCA, consisting of following components mounted over back plate of MS: ➢ Bulkhead Union (3/4" NB SWX 1/4" O.D) ➢ Sample Isolation valve HT, Globe Type [for T>200DegC] – IBR Certified ➢ Sample Isolation Valve LT, Needle Type (for T<200DegC] ➢ Blow Down Isolation Valves ➢ Blowdown Headers ➢ Cooling Water Headers ➢ Isolation Valves, At Cooling Water Headers ➢ Pressure Gauge & Temperature Gauge at Cooling Water Headers ➢ Flow switch, At Cooling Water Header ➢ Isolation Valves, Cooling Water I/L &O/L Line ➢ Coolant flow Indicator at Cooling Water O/L Lines ➢ Sample Cooler (INCONEL Coil & SS 316 Shell Construction) – IBR Approved ➢ Along with Sample Pressure Relief Valve ➢ Sample filter, 40 Micron, Redundant Type, Arrangement ➢ Variable pressure reducer(VRTS) (For P> 30 Bar) ➢ Pressure Regulator (For P<30 Bar) ➢ Thermal Shutoff Valve, Mechanical Type ➢ Along with Contacts ➢ Pressure Gauge ➢ Temperature Gauge ➢ Rotameter (Flow Indicator) with built in Needle	no	1

	➢ Back Pressure Regulator ➢ Drain Header ➢ Grab Sample Valve ➢ Tundish ➢ Flow Thru Chambers for the required sensors.		
C	Dry Panel for mounting analyzers of "A" above.	no	1
D	Dry Panel for mounting analyzers of "B" above.	no	1
2	**Analyzers**	lot	01
	Conductivity (Specific) (Single channel)	no	6
	Conductivity (Cation) (Single channel)	no	5
	pH (Single channel)	no	9
	Dissolved oxygen (Single channel)	no	2
	Silica (5-channel with external sequencer)	no	2
	Phosphate (5-channel)	no	2
	Ammonia (NH3) (3-channel)	no	1
	Hydrazine (N2H4) (3-channel)	no	1
	Total hardness (5-channel)	no	2
	TDS (Single channel)	no	2
4	SS-Sampling tube with connectors (straight, T, elbow) etc	Mtr	500
5	Control cables (Cu), 1.5 mm2	Mtr	500
6	Start-up, Commissioning Spares and Consumables as required for commissioning & Handing over of System.	lot	1
7	LOOSE SUPPLY ITEMS FOR SWAS	lot	1
8	**Engineering documentation shall includes** a) Detailed engineering of the system, b) P&I diagram, c) Panel wiring diagram, d) Instrument List, User manuals. Item Data Sheets, Item catalogue etc.	lot	1

2	**Mandatory spares required for smooth operation for minimum 1-years.**	5,78,000.00	1.00 lot	5,78,000.00

Item description	Qty
PH SENSOR	1 NOS
PH TRANSMITTER	1 NOS
CONDUCTIVITY SENSOR	1 NOS
CONDUCTIVITY TRANSMITTER	1 NOS
DO SENSOR	1 NOS
DO TRANSMITTER	1 NOS
TDS SENSOR	1 NOS
TDS TRANSMITTER	2 NOS
SAMPLE FILTER	2 NOS
PRESSURE REDUCER	2 NOS
CATION COLUMN	5 NOS
ROTAMETERS	2 SET
SPARE KIT FOR SILICA ANALYZER FOR 1 YEAR OPERATION	2 SET
REAGENT KIT FOR SILICA ANALYZER FOR 1 YEAR OPRATION	2 SET
REAGENT KIT FOR HYDRAZINE ANALYZER FOR 1 YEAR OPERATION	2 SET

	Valve ➢ Cation Columns, Redundant Arrangement ➢ Back Pressure Regulator ➢ Drain Header ➢ Grab Sample Valve ➢ Tundish ➢ Flow Thru Chambers for the required sensors :		
B	FREE FRAME STANDING WET PANEL NEAR BOILERS (RACK B): i) Economizer Inlet/Boiler feed water for Boiler-1 & 2 ii) Boiler Drum 1 & Boiler Drum 2 iii) Boiler Super-heater 1 & 2 iv) Main Steam-1 & 2 Supply of 8 Lines Sample Conditioning System as per above specifications for continuous online analysis, mounted over a free-standing rack type with structural framework of CRCA, consisting of following components mounted over back plate of MS: ➢ Bulkhead Union (3/4" NB SWX 1/4" O.D) ➢ Sample Isolation valve HT, Globe Type (for T>200 DegC) – IBR Certified ➢ Sample Isolation Valve LT, Needle Type (for T<200 DegC) ➢ Blow Down Isolation Valves ➢ Blowdown Headers ➢ Cooling Water Headers ➢ Isolation Valves, At Cooling Water Headers ➢ Pressure Gauge & Temperature Gauge at Cooling Water Headers ➢ Flow switch, At Cooling Water Header ➢ Isolation Valves, Cooling Water I/L & O/L Line ➢ Coolant flow Indicator at Cooling Water O/L Lines ➢ Sample Cooler (INCONEL Coil & SS 316 Shell Construction) – IBR Approved ➢ Along with Sample Pressure Relief Valve ➢ Sample filter, 40 Micron, Redundant Type Arrangement ➢ Variable pressure reducer (VRTS) (For P> 30 Bar) ➢ Pressure Regulator (For P<30 Bar) ➢ Thermal Shutoff Valve, Mechanical Type ➢ Along with Contacts ➢ Pressure Gauge ➢ Temperature Gauge ➢ Rotameter (Flow Indicator) with built In Needle Valve ➢ Cation Columns, Redundant Arrangement	no	1

PRESSURE REGULATORS	2 NOS
PRESSURE GAUGES	2 NOS
TEMPERATURE GAUGES	2 NOS
BACK PRESSURE REGULATOR	2 NOS
3 WAY GRAB SAMPLE VALVE	2 NOS
NEEDLE VALVES	2 NOS
FLOW SWITCH	2 NOS
HT ISOLATION VALVES	2 NOS
THERMAL SHUTOFF VALVES	1 NOS
PRIMARY COOLER	1 NOS
SECONDARY COOLER	

ISO 14001: 2015
ISO 9000: 2015
ISO 45001: 2018

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लि

NORTH EASTERN ELECTRIC POWER CORPORATION L

(A GOVT OF INDIA ENTERPRISE)

ASSAM GAS BASED POWER STATION

BOKULONI, DIBRUGARH, ASSAM, 786191

Email:

No. NEEPCO/AGBPS/HOP/2022-23/W-8(B)/ 313

Dated 30/11/2022

To,

M/S BHEL-GE Gas Turbine Services Pvt. Ltd.,
Module No. A1, A2 & A3, Quadrant No.1,
Cyber Towers, HITEC City,
Modhupur, Hyderabad,
Telengana, India,
PIN – 500 081

Sub: NEEPCO/AGBPS – Purchase Order for supply of spare parts and consumables for Combustion and Borescope Inspection of BHEL supplied Frame VI B Gas Turbine Unit # 6.

Ref: (i) Our letter No. NEEPCO/AGBPS/GT & AUX/2022-23/W-32/91 dated 10.06.2022.
(ii) Your Offer No. Q21-0343-01 dated 14.06.2022.
(iii) Our letter No. NEEPCO/AGBPS/GT & AUX/2022-23/W-32/98 dated 15.06.2022.
(iv) Your Letter No. Q21-0434_01_AGBP_CIBI dated 15.06.2022.
(v) Our letter No. NEEPCO/AGBPS/GT & AUX/2022-23/W-32/101 dated 18.06.2022.
(vi) Your Letter Q21-0434_01_AGBP_CIBI_1 dated 20.06.2022.
(vii) Our letter No. NEEPCO/AGBPS/GT & AUX/2022-23/W-32/155 dated 08.08.2022.
(viii) Your Letter Q21-0434_AGBP_CIBI_2 dated 11.08.2022.
(ix) Our letter No. NEEPCO/AGBPS/GT & AUX/2022-23/W-32/160 dated 30.08.2022.
(x) Your e-mail dated 31.08.2022.
(xi) Our letter No. NEEPCO/AGBPS/GT & AUX/2022-23/W-32/181 dated 27.09.2022.
(xii) Your e-mail dated 28.09.2022.
(xiii) Your e-mail dated 20.10.2022.
(xiv) Our letter No. NEEPCO/AGBPS/GT & AUX/2022-23/W-32/207 dated 09.11.2022.
(xv) Your e-mail dated 11.11.2022.
(xvi) Our letter No. NEEPCO/AGBPS/GT & AUX/2022-23/W-32/239 dated 23.11.2022.
(xvii) Your e-mail dated 24.11.2022.

Dear Sirs,

With the above reference, the Corporation is pleased to place this Purchase Order for supply of spare parts and consumables for Combustion and Borescope Inspection (CIBI) of BHEL supplied Frame VI B Gas Turbine Unit # 6 as per following terms & conditions.

14001: 2015
9000: 2015
O 45001: 2018

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लि

NORTH EASTERN ELECTRIC POWER CORPORATION L
(A GOVT OF INDIA ENTERPRISE)
ASSAM GAS BASED POWER STATION
BOKULONI, DIBRUGARH, ASSAM, 786191
Email:

Terms & Conditions:

1. **Scope of Contract:** The Scope of this Contract shall include Supply of spare parts and consumables for Combustion and Borescope Inspection of BHEL supplied Frame VI B Gas Turbine Unit # 6 as per the Schedule of Items and Prices **(Annexure-I)** enclosed along with this order.
2. **Prices:** The prices for supply of spare parts and consumables required for CIBI of BHEL supplied Gas Turbine Unit # 6 as detailed in **Annexure-I** is **₹ 3,05,70,492.00 (Rupees Three Crore Five Lac Seventy Thousand Four Hundred Ninety-Two)** only. The prices are Ex-works, Hyderabad and shall remain FIRM during the period of this contract.
3. **Payment:**
   a) 100% payment along with full taxes and duties shall be released after receipt of materials in full and good condition on presentation of the following documents:
      (i) Original invoice.
      (ii) Packing list.
      (iii) Consignment Note.
      (iv) Guarantee certificate.

      Partial payment for partial delivery shall be applicable.
4. **Taxes and duties:** All taxes shall be paid extra as applicable on the prices indicated in the schedule of Items and Prices (Annexure-I). The present rate of GST is @ 18% and rate of TCS is @ 0.1 %.
5. **Packing & Forwarding:** The prices indicated in the schedule of Items and Prices (Annexure-I) are inclusive of Packing & Forwarding charges.
6. **Transportation:** The materials shall be dispatched by road transport on freight paid door delivery basis for which charges shall be paid at actual against production of documentary evidence.
7. **Transit Insurance:** Before dispatch of the materials, you will intimate to the **Branch Manager, National Insurance Company Limited, Dulajan Branch, New Market, Station Road, Duliajan, Assam, PIN - 786602)**, for transit insurance coverage under our Open Marine Transit Insurance Policy No. **200402212210000013** against any loss, damage or theft in transit, with intimation to the Consignee for follow up action and obtaining Road Permit.
8. **Delivery Period:** The materials shall be delivered within 10 (Ten) months from the date of receipt of the purchase order. However, BHEL shall make all efforts to supply the material as soon as possible.
9. **Guarantee/Warrantee:** All the materials supplied shall be guaranteed against any manufacturing defect or faulty workmanship for a period of 12 (twelve) months from the date of commissioning or 18 (Eighteen) months from the date of dispatch whichever is earlier

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NORTH EASTERN ELECTRIC POWER CORPORATION L

(A GOVT OF INDIA ENTERPRISE)

ASSAM GAS BASED POWER STATION

BOKULONI, DIBRUGARH, ASSAM, 786191

Email:

4001: 2015
9000: 2015
45001: 2018

10. **LD Clause:** In case the Contractor fail to deliver the materials within contractual delivery period (or extension thereof) due to reason attributable to the contractor, then the Corporation shall reserve the right to recover from the contractor's sum towards Liquidated Damage @ ½ % (Half Percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the schedule delivery date (or extension thereof). The total recovery on account of this shall, however, not exceed 10 % (Ten Percent) of the value of the undelivered portion of supply.

    However the L.D. Clause will not be imposed if you fail to deliver the materials within the schedule delivery period due to Force Majeure conditions, which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, floods, explosion or fire not caused by your negligence, lightning, acts of God or the public enemy which is of such a nature as to delay, curtail or prevent timely action by either party.
11. **PBG Clause:** The Contractor shall submit Security Deposit cum Performance Bank Guarantee @ 10% of the order value drawn from any Indian PSU Bank within a period of 30(thirty) days from the date of issue of purchase order. The Security Deposit cum Performance Bank Guarantee shall remain valid till 90(ninety) days after expiry of Guarantee/Warranty period.
12. **Testing & Inspection:** Manufacturer's inspection before shipment shall be final. All expenses of NEEPCO's inspector such as traveling & living expenses shall be borne by NEEPCO in case NEEPCO's inspector inspects them.
13. **Rejection of Defective Materials:** If the materials are found defective at the time of receipt the same shall be rejected and the supplier shall replace the same at their own cost. Transportation cost for the replacement of the materials will be borne by the supplier.
14. **Paying Authority:**
    The Dy. Manager (Fin.),
    Assam Gas Based Power Station, NEEPCO Ltd.,
    No.3 Bokuloni Village,
    Dist. Dibrugarh, Assam, PIN – 786 191.
15. **Consignee:**
    The DGM (E/M)
    Material Management Wing,
    Assam Gas Based Power Station, NEEPCO Ltd.,
    No.3 Bokuloni Village,
    Dist. Dibrugarh, Assam, PIN – 786 191.
16. **Address for Communication:**
    Chief General Manager & Head of Project,
    Assam Gas Based Power Station, NEEPCO Ltd.,
    No.3 Bokuloni Village,
    Dist. Dibrugarh, Assam, PIN – 786 191.

नॉर्थ ईस्टर्न इलैक्ट्रिक पावर कार्पोरेशन लि

NORTH EASTERN ELECTRIC POWER CORPORATION L

(A GOVT OF INDIA ENTERPRISE)

ASSAM GAS BASED POWER STATION

BOKULONI, DIBRUGARH, ASSAM, 786191

Email:

Kindly acknowledge receipt of this purchase order and convey your acceptance please.
Thanking you,

Enclo: Annexure - I: Schedule of Items and Prices.

Yours faithfully

GM (E/M)
For & on behalf of
CGM & Head of Project

NIO
Memo No. NEEPCO/AGBPS/HOP/2022-23/W-8(B)/ 314-19 Dated 30/11/2022
Copy to:

1. The Director (Tech.), NEEPCO Ltd., Shillong, for kind perusa. This has reference to the approval of CMD Dated 26/11/2022 conveyed vide email Dated 26/11/2022 of ED (O&M)
2. The Executive Director (O&M), NEEPCO Ltd., Shillong for kind perusal.
3. The DGM (E/M), GT&AD, AGBPS, NEEPCO Ltd., Bokuloni for information please.
4. The DGM (E/M), MMW, AGBPS, NEEPCO Ltd. Bokuloni, for information necessary action please.
5. The DGM (C), Vigilance Wing, AGBPS, NEEPCO Ltd., Bokuloni, for information please.
6. The DM (F), AGBPS, NEEPCO Ltd., Bokuloni for information and necessary action please. Enclosed a copy of the approval.

30/11/22

GM (E/M)
For & on behalf of
CGM & Head of Project

ANNEXURE - I

SPARES AND CONSUMABLES REQUIRED FOR COMBUSTION AND BOROSCOPIC INSPECTION OF GT # 6

	PART DESCRIPTION	BHEL MATERIAL CODE	UOM	QTY. REQD	UNIT PRICE (₹)	TOTAL PRICE (₹)
1	GASKET SPIRAL WOUND	GT9751284031	NO	24	868.15	20,835.60
2	BOLT12 POIN HEAD M20X75	GT9751178010	NO	50	1,378.37	68,918.50
3	GASKET SPIRAL WOUND	GT9751284040	NO	50	1,459.85	72,992.50
4	CAP SCREW HEX SOCKET HEAD M 12x40	GT9751178525	NO	15	1,400.00	21,000.00
5	RING PACKING	GT9851311030	NO	50	1,378.37	68,918.50
6	CAP SCREW HEX SOCKET HEAD M 12x30	GT9751178533	NO	12	1,632.00	19,584.00
7	CROSS FIRE TUBE (M)	23510861003-02	NO	10	1,03,442.74	10,34,427.40
8	CROSS FIRE TUBE (F)	23510861004-02	NO	10	1,07,394.52	10,73,945.20
9	SRPING INCONNEL	GT9751312019	NO	20	21,258.52	4,25,170.40
10	GASKET	43510851005-04	NO	20	1,378.37	27,567.40
11	BOLT HEX HEAD M16X50	AA7111122240	NO	20	905.00	18,100.00
12	GASKET	43510851005-02	NO	2	1,644.15	3,288.30
13	BOLT HEX HEAD M20X50	HY7121124971	NO	8	1,705.26	13,642.08
14	LINER ASSY COMBUSTION (GR-24)	03511161002-28	NO	4	11,13,815.11	44,55,260.44
15	LINER ASSY COMBUSTION (GR-25)	HY351110176001	NO	2	11,13,815.11	22,27,630.22
16	LINER ASSY COMBUSTION (GR-26)	HY351110336001	NO	3	11,13,815.11	33,41,445.33
17	TRANSITION PC ASSY, COMBUSTION	HY351090006001	NO	10	16,80,162.86	168,01,628.58
18	SEAL AFT SIDE	GT9751391407	NO	10	19,933.89	1,99,338.88
19	PLATE LOCKING	33511561005-02	NO	10	918.59	9,185.90
20	BOLT BODY BOUND	GT9751391091	NO	10	4,200.00	42,000.00
21	PLATE LOCKING	33511561005-01	NO	10	918.59	9,185.90
22	BOLT SHOULDER	GT9751391156	NO	10	4,474.00	44,740.00
23	STOP SEAL	33511561009-01	NO	10	9,546.74	95,467.40
24	LOCK PLATE BULL HORN	33511561007-01	NO	10	1,041.78	10,417.80
25	LOCK PLATE BULL HORN	33511561007-02	NO	10	8,032.00	80,320.00
26	LOCK PLTAE (SIDE SEAL RETAINER)/TP LOCK PLATE	33511561008-01	NO	10	1,746.00	17,460.00
27	PIN POSITION TC PC	GT9751401313	NO	10	11,232.00	1,12,320.00
28	BOLT SHOULDER	GT9751391113	NO	10	4,200.00	42,000.00
29	GASKET SW 1-1/4" 300 (WITH INNER RING)	GT9754264449	NO	30	832.00	24,960.00
30	GASKET MSW 2IN #300 (With Inner Ring)	GT9754264465	NO	3	807.04	2,421.12
31	GASKET MSW 4IN #300 (With Inner Ring)	GT9754264309	NO	4	918.59	3,674.36
32	BOLT HEX HEAD M12X40-P8.8	HY7121198690	NO	20	1,755.46	35,109.15
33	GASKET SW 1-1/4" -600 (WITH INNER RING)	GT9754264449	NO	30	1,653.38	49,601.40
34	BOLT HEX HEAD	HYHY711119994	NO	14	2,256.25	31,587.50
35	BOLT HEX HEAD M12X30 (Pitch: 1.75 mm)	HYAA7121123363	NO	40	1,658.70	66,348.00
	Total					305,70,492.00

(Rupees Three Crore Five Lac Seventy Thousand Four Hundred Ninety Two) only

30/11/22

Contract | अनुबंध

Contract No | अनुबंध संख्या: GEMC-511687749634550
Generated Date | अनुबंध तिथि: 09-Jun-2023
Bid/RA/PBP No. | बोली/रिवर्स नीलामी/पीबीपी संख्या: GEM/2022/B/2906351

Organisation Details | संगठन विवरण

Type | प्रकार :	Central PSU
Ministry | मंत्रालय :	Ministry of Power
Department | विभाग :	NORTH EASTERN ELECTRIC POWER Corporation Limited
Organisation Name | संगठन का नाम :	NORTH EASTERN ELECTRIC POWER Corporation Limited
Office Zone | कार्यालय क्षेत्र :	Assam Gas Based Power Plant Bokuloni Dibrugarh

Buyer Details | खरीदार विवरण

Designation | पद :	DEPUTY GENERAL MANAGER (M
Contact No. | संपर्क नंबर :	0374-2625230
Email ID | ईमेल आईडी :	bimbad.neepco@nic.in
GSTIN | जीएसटीआईएन :	18AAACN0881J1ZP
Address | पता :	AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam, DIBRUGARH, ASSAM-786191, India

Financial Approval Detail | वित्तीय अनुमोदन विवरण

FD Concurrence | वित्त की सहमति :	No
Designation of Administrative Approval | प्रशासनिक अनुमोदन का पदनाम :	HOP, AGBPS
Designation of Financial Approval | वित्तीय अनुमोदन का पदनाम :	Head of Plant, AGBPS

Paying Authority Details | भुगतान प्राधिकरण विवरण

Role :	PAO
Payment Mode | भुगतान का तरीका :	Internet Banking
Designation | पद :	IN CHARGE FINANCE
Email ID | ईमेल आईडी :	rahulg.ee.pos@nic.in
GSTIN | जीएसटीआईएन :	18AAACN0881J1ZP
Address | पता :	AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam, Dibrugarh, ASSAM-786191, India

Seller Details | विक्रेता विवरण

Gem Seller ID | जेम विक्रेता आईडी :	WW0P220000033664
Company Name | कंपनी का नाम :	M/S ECO CLEAN
Contact No. | संपर्क नंबर :	09864018703
Email ID | ईमेल आईडी :	ecoclean.gauhati@gmail.com
Address | पता :	ZAIN BUSTAND, ABHA_MED ROAD,BAMUNIMAIDAN, Kamrup, ASSAM-781021, -
MSME Registration number | एमएसएमई पंजीकरण संख्या :	UDYAM-AS-03-0013514
MSE Social Category | एमएसई सामाजिक श्रेणी :	OBC
MSE Gender | एमएसई लिंग श्रेणी :	Male
GSTIN | जीएसटीआईएन :	18ADJPY3380H1ZO

*GST / Tax invoice to be raised in the name of | जिसके नाम के पक्ष में GST/TAX इनवॉइस पेश किया जाएगा - Consignee

Delivery Instructions | वितरण निर्देश : Price break up for the work is 1. Supply, Erection, Testing & Commissioning of 75 KLD MBBR Technology STP is Rs. 38,77,136.00 with GST. 2. O&M Expenses for 3 years is Rs. 3,00,000.00 with GST. 3. Price of Mandatory Spares is Rs. 200,000.00 with GST

Product Details | उत्पाद विवरण

#	Item Description | आइटम विवरण	Ordered Quantity | आइटम विवरण	Unit | इकाई	Unit Price (INR) | इकाई मूल्य (INR)	Tax Bifurcation (INR) | कर विभाजन (INR)	Price (Inclusive of all Duties and Taxes in INR) | मूल्य (INR में सभी शुल्क और कर सहित)
1	Product Name | उत्पाद का नाम : Unbranded RCC Multiple/Separate Tank Sewage/Effluent Treatment Plant 1 year Brand | ब्रांड : NA Brand Type | ब्रांड प्रकार : Unbranded Catalogue Status | कैटलॉग की स्थिति : Catalogue not verified by OEM Selling As | किसी सेलर पर बेचा गया है : Reseller not verified by OEM Category Name & Quadrant | श्रेणी का नाम और क्वाड्रेंट : Sewage/Effluent Treatment Plant (Q3) Model | मॉडल : ECO1 HSN Code | एचएसएन कोड : HSN not specified by seller	1	pieces	4,377,136.5	NA	4,377,136.5
Total Order Value | कुल ऑर्डर मूल्य (INR)						4,377,136.5

Consignee Detail | परिदिष्टी विवरण

S.No | क्र.सं.	Consignee | परिदिष्टी	Item | वस्तु	Lot No. | लॉट नंबर	Quantity | मात्रा	Delivery Start After | डिलिवरी शुरू करना है	Delivery To Be Completed By | डिलिवरी पूरा करना है
1	Designation | पद : - Email ID | ईमेल आईडी : subadianeepco@nic.in Contact | संपर्क : 0374-2625230 GSTIN | जीएसटीआईएन : - Address | पता : AGBP, NEEPCO, Bokuloni, Dibrugarh, Assam, DIBRUGARH, ASSAM-786191, India	Unbranded RCC Multiple/Separate Tank Sewage/Effluent Treatment Plant 1 year	-	1	09-Jun-2023	07-Sep-2023

Product Specification for Unbranded RCC Multiple/Separate Tank Sewage/Effluent Treatment Plant 1 year

Specification | विशिष्टि	Sub-Spec | उप-विशिष्टि	Value | मूल्य
Sewage/Effluent Inlet Parameters	Inlet Oil & grease	10
	Inlet COD, mg/l	10
	Inlet pH	5.5
	Inlet BOD, 5 days @ 20 deg.C mg/l	10
	Inlet Suspended solids, mg/l	10
	Mechanical Design of Plant	Working plus Standby
	Construction of collection Tank included scope of work	Yes

TYPE	Type of Tank Construction	RCC
	Construction of shed included scope of work	Yes
	Technology of Treatment	MBR/MBBR/FAB/AS/SBR/Electrocoagulation/pilot scale
	Capacity per day(in KLD)	75
	Internal coating of Tank	FRP
	Type of Plant	ETP
	Construction of base included included in scope of work	Yes
	Thickness of MS Sheet/ RCC Wall/100% FRP	50 millimeter
	Type of Tank	Multiple/Separate Tank
	Type of Installation	Underground
Product Water Parameters	Outlet COD, mg/l	10
	outlet pH	7
	outlet BOD, 3 days @ 27 deg C, mg/l	10
	outlet Suspended solids, mg/l	10
	outlet Oil & grease	10
Mechanical Units	Air Blower Capacity	10 Blowers
	Lifting pump Capacity (HP)	10
	Make of Air Blower	M/S ECO CLEAN
	Number of Lifting Pump	2
	Number of Air Blowers	2
	Filter Feed Pump Capacity	50 horsepower
	Sludge Transfer Pump Capacity	50 horsepower
	Number of Filter Feed Pump	2
	Power Consumption of Each Air Blower, kWh	60
	Make of Lifting pump Capacity	M/S ECO CLEAN
	Make of Sludge Transfer Pump Capacity	M/S ECO CLEAN
	Make of Filter Feed Pump Capacity	M/S ECO CLEAN
Filtration	Dosing Tank Capacity	1000 liter
	Filter Type	FRP
	Dosing Tank Type	HDPE
Electrical	Electric Control Panel included in the scope of work	Yes
	Electric Cables included in the scope of work	Yes
Instruments	Other items provided	certificates, licenses and test reports
	Digital Flow Display Type	Integral/Remote
	Material	SS316
	connection of DFM	NA
	Diameter	50 mm
WARRANTY AND SERVICES	Onsite Warranty	1 year
Installation and Commissioning	With Installation and Commissioning	Yes
	Without Installation and Commissioning	No
CERTIFICATION	Should submit the copies of all the certifications, licenses and test reports to the buyer along with supplies	Yes
	Type of lab which carried out Test of Complete Product to prove the conformity of product as per specification	OEM/Govt Lab
	Name of the Lab and Address (May indicate 'NA' if not applicable)	ABMS SCIENTIFIC SERVICES
	Test Report No and Date (May indicate 'NA' if not applicable)	TC661720000880082F Date 18/11/2020
	Certification - Empanelment of Technology for Use under Swachh Bharat Mission	No

Note:हिन्दी: Seller has given an undertaking that it has made arrangements for getting the stores from an authorized distributor / dealer / channel partner of the OEM of the offered product. At the time of delivery of goods, Seller will provide necessary chain documents (i.e. the invoice/GST Invoice) to prove that the supplied goods are genuine and are being sourced from an authorized distributor / dealer / channel partner of the OEM. In case of any complaint about genuineness of the supplied products, Seller shall be responsible for providing genuine replacement supplies.

Buyer Defined Additional Specification for [अतिरिक्त परिभाषित आवश्यक विशिष्टता के लिए] Unbranded RCC Multiple/Separate Tank Sewage/Effluent Treatment Plant 1 year

Specification/विशिष्टि	Value/मूल्य
Capacity & Type of STP:	Capacity: 75 K.D. Type: MBBR
1. Coarse Screen Chamber, 2. Equalisation cum Pre aeration Tank:	1. Capacity: 5 KL, 01 (one) no., MOC: Civil and Concrete Chamber with SS screen 2. Capacity: 10 KL, 01 (one) no., MOC: RCC
1. Pressure Sand Filter, 2. Activated Carbon Filter:	1. Capacity: 8 KL per hour, 01 (one) no., MOC: FRP 2. Capacity: 8 KL per hour, 01 (one) no., MOC: FRP
1. Hypo Tank: 01 (one) no. 2. Operation & Maintenance after Installation and Commissioning 3. mandatory Spares:	1. Capacity: 500 KL, 01 (one) no., MOC: HDPE 2. 3 (three) years 3. List of spares to be submitted
Design Specification in place of any value	Specified in additional terms and conditions under the heading of Technical Specification

Corrigendum | शुद्धिपत्र

1. Extended Upto | तक बढ़ाया गया: 2022-10-18 15:00:00
2. Extended Upto | तक बढ़ाया गया: 2022-10-25 15:00:00

Buyer added Bid Specific Additional Scope of Work | खरीदार द्वारा जोड़ी गई बोली पर विशिष्ट अतिरिक्त कार्य

S.No	Document Title	दस्तावेज़ का शीर्षक	Description	विवरण	Applicable t.c.w. Items	वस्तु	अधिकारी समय
1	O&M Contract and Warranty View	Full comprehensive operation & maintenance Contract of the plant including supply of consumables as required for 36 (thirty six) months commencing immediately after commissioning. The analysis report of treated sewage is to be submitted to Manager (Safety), F&S (M) on every month. The report should comply with our requirement. However, the contractor shall have to guarantee and warranted the supplied equipment including all accessories for satisfactory performance for a period of 12 months fro	Sewage Effluent Treatment Plant(s)				

ePBG Detail | ईपीबीजी विवरण

Advising Bank	सलाहकार बैंक:	State Bank of India
ePBG Percentage(%)	ईपीबीजी प्रतिशत (%):	3.00

The bidder shall furnish ePBG as applicable as per bid's terms and conditions | बोली शर्तों एवं बोलियों के विशिष्ट और बोली के अनुसार लागू ईपीबीजी प्रस्तुत करना होगा

Terms and Conditions | नियम और शर्तें

1. General Terms and Conditions:

1.1 This contract is governed by the general Terms and Conditions, conditions stipulated in this Product/Service as provided in the Marketplace.

1.2 This Contract between the Seller and the Buyer, is for the supply of the Goods and/or Services, detailed in the schedule above, in accordance with the General Terms and Conditions (GTC) unless otherwise superseded by Goods / Services specific Special Terms and Conditions (STC) and/ or RA/Reverse Auction Additional Terms and Conditions (ATC), as applicable.

2. Buyer Added Bid Specific Terms and Conditions:

2.1 *Generic*
Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address:

Assam Gas Based Power Station (AGBPS),
North Eastern Electric Power Corporation Limited (NEEPCO Ltd.)
P.O. Kakatoni Charkal (Near Dukajuli)
Dist. Dibrugarh
Assam-786 191

2.2 *Generic*
Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:
i) The Seller fails to comply with any material term of the Contract.
ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
iv) The Seller becomes bankrupt or goes into liquidation.
v) The Seller makes a general assignment for the benefit of creditors.
vi) A receiver is appointed for any substantial property owned by the Seller.
vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

2.3 *Generic*
While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

2.4 *Generic*
After award of contract – Successful Bidder shall have to get detailed Design Drawings approved from buyer before starting fabrication. Successful bidder shall submit Detailed Design Drawings for Buyer's approval, within 15 days of award of contract. Buyer shall, either approve the drawings or will provide complete list of modification required in the drawings within 7 days. Seller shall be required to ensure supply as per approved Drawings with modifications as communicated by Buyer. If there is delay from buyer side in approval of drawing- the delivery period shall be refixed without LD for the period of delay in approval of Drawing.

2.5 *Generic*
Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

2.6 *Generic*
Experience Criteria: The Bidder or its OEM (if themselves or through reseller(s)) should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied same quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

2.7 *Generic*
Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorized Reseller.

2.8 *Generic*

In case the bidder is not able to furnish its audited financial statements on standalone entity basis, the unaudited unconsolidated financial statements of the bidder can be considered acceptable provided the bidder furnishes the following further documents in substantiation of its qualification:

- Copies of the unaudited unconsolidated financial statements of the bidder along with copies of the audited consolidated financial statements of the Holding Company.

- A certificate from the CEO/CFO of the Holding Company as per the format enclosed in the bid documents stating that the unaudited unconsolidated financial statements form part of the consolidated annual report of the company.

- In case where audited results for the last financial year as on the date of Techno Commercial Bid Opening are not available, the financial results certified by a practicing Chartered Accountant shall be considered acceptable. In case, Bidder is not able to submit the Certificate from practicing Chartered Accountant certifying its financial parameters, the audited results of three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters. Further, a certificate will be required from the CEO/CFO as per the format enclosed in the bidding documents stating that the financial results of the Company are under audit as on the date of Techno Commercial Bid Opening and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available.

Note: (i) Other income shall not be considered for arriving at annual turnover.

2.9 *Generic*
1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of Buyer.
2. The Seller shall not subcontract the contract in whole or part to any entity without obtaining the prior written consent of buyer.

3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.

2.10 Generic:
Upload Manufacturer authorization. Wherever Authorized Distributors are submitting the bid, Manufacturers Authorization Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.

2.11 Certificates:
ISO 9001: The bidder or the OEM of the offered products must have ISO 9001 certification.

2.12 *Past Project Experience:*
For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:
a. Purchase Order copy along with Invoice(s) with self certification by the bidder that supplies against the invoices have been executed.
b. Execution certificate by client with order value.
c. Any other document in support of order execution like Third Party Inspection release note, etc.

2.13 *Past Project Experience:*
The Bidder / OEM (themselves or through reseller(s), should have executed project for supply and installation / commissioning of same or similar Category Products during preceding 3 financial years (i.e. current year and three previous financial years) as on opening of bid, as per following criteria:

(i) Single order of at least 35% of estimated bid value; or
(ii) Two orders of at least 20% each of estimated bid value; or
(iii) Three orders of at least 15% each of estimated bid value.
Satisfactory Performance certificate issued by respective Buyer Organization for the above Orders should be uploaded with bid. In case of bunch bids, the Category related to primary product having highest bid value should meet this criterion.

2.14 *Buyer Added Bid Specific ATC:*
Buyer Added text based ATC clauses

E-Tender under SINGLE STAGE TWO BID system with 180 (one hundred and eighty) days validity are invited from reputed and experienced contractors for Design, Engineering, Manufacturing, Supply, Transit Insurance, Transportation, Delivery, Erection, Testing & Commissioning of 75 KLD Sewage Treatment Plant (STP) with MBBR technology at 291 MW Assam Gas Based Power Station, NEEPCO Ltd., Bokuloni Chariali, District Dibrugarh, Assam 786191.

1.0 Qualifying Criteria:

a) The intending bidders must have experience in Design, Engineering, Manufacturing, Supply, Delivery, erection and Testing & Commissioning of Sewage Treatment Plant (STP) of minimum capacity of 75 KLD.

b) Similar works should have been carried out by the intending bidder in the last 7 years and tenderer should have at least completed 3 similar works valued at Rs. 19.00 lakh each , or 2 similar works valued at Rs. 24.00 lakh each or 1 similar work valued at Rs. 38.00 lakh.

c) Minimum average annual turnover of the bidder, in the last three financial year out of the last 5 (five) financial years ending 31 st March 2022 should not be less than Rs. 218.00 Lakh.

d) Documentary evidence in support of the above must be submitted along with the bid.

e) The bidder shall furnish copies of the following document with Techno-commercial Bid:

(i) Registration Certificate for GST

(ii) PAN (Permanent Account Number) for Income Tax

(iii) Solvency Certificate from any Nationalised Bank

(iv) Valid work permit/Firm/Company registration

2.0 procedure/steps for payment of (BID FEE, Security Deposit, Performance Bank Guarantee etc.):

The procedure/steps for payment by SBI-COLLECT of State Bank of India (for payment of (BID FEE, Security Deposit, Performance Bank Guarantee etc.) in to NEEPCO's (AGBPS) SBI Account is as follows:

1.	Visit "On lineslbi.com"
2.	Go for "SBI COLLECT" icon on top
3.	Read Accept the terms & condition and proceed
4.	Select "Assam" against State of Corporation
5.	Select "PSU" against type of Corporation & go to NORTH EASTERN ELECTRIC POWER CORPORATION LTD" then submit
6.	Select "AGBP parties" & submit
7.	Feed Necessary information in the appropriate boxes
8.	Payment through "Internet Banking" SBI Branch, SBI Buddy or Card Payment etc.
9.	Print Copies of receipt and submit

3.0 EARNEST MONEY DEPOSIT:

Earnest Money as mentioned in the tender shall be deposited in the form as mentioned above. Copies of payment receipt may be uploaded.

3.1 The Bidder registered as Micro / Small Enterprise are exempted from paying bid Fee, EMD etc., subject to submission of valid and relevant document / certificate.

4.0 NEEPCO reserves the right to extend the last date and time for submission of Bid.

5.0 NEEPCO reserve the right to reject any or all bids or to annul the bidding process and reject all the bids for any justified and genuine grounds without thereby incurring any liability to the affected bidders nor does it have any obligation to inform the bidders of the grounds for such action.

6.0 General information:

Assam Gas Based Power Station is located in the Dibrugarh District of Assam State, about 500 Kms from Guwahati by road. The nearest rail head is Duliajan/Tinsukia, about 17 Kms/35 Kms from Project site. The nearest Airport is at Dibrugarh and it is about 60 Kms away from Power Station. The power station is also connected by road.

Our site address and address for all purposes regarding the tender process is as follows:

Assam Gas Based Power Station (AGBPS),

North Eastern Electric Power Corporation Limited (NEEPCO Ltd.)

P.O. Bokuloni Chariali,

(Near Duliajan)

Dist: Dibrugarh, Assam-786 191

7.0 Qualifying requirement of bidders

A. Technical: -

i. The intending bidders must have experience in Design, Engineering, Manufacturing, Supply, Delivery Erection, Testing & Commissioning of Sewage Treatment Plant (STP) of minimum capacity of 75 KLD.

ii. Similar works should have been carried out by the intending bidder in the last 7 years and he/she/it should have at least completed 3 similar works valued at Rs. 19.00 lakh each, or 2 similar works valued at Rs. 24.00 lakh each or 1 similar work valued at Rs. 38.00 lakh.

B. Financial: -

Minimum average annual turnover of the bidder, in the best three financial year out of the last 5 (five) financial years ending 31st March 2022 should not be less than Rs. 21 8.00 Lakh. Audited Annual Report and balance sheets for the last three financial years are to be submitted in support of the same.

- Details, including year wise value of work executed, clients, and proof of satisfactory completion of work and satisfactory operation should be furnished in the Schedule of Similar works (Schedule-I).
- Bidder should possess all tools & tackles and technical manpower/support required for execution of the works included under this specification and shall furnish the document any evidence in support of the same Schedule-II and Schedule-III.
- Bidders shall have sound financial capacity and should submit copies of their audited Annual Reports and balance sheet for the last 3 (three) years and the latest banker's certificate indicating amount in support of solvency alongwith credit facilities currently available and latest GST clearance certificates.
- The bidders should also submit copy of valid PAN, GST Certificate from appropriate Authorities.
- Further, the bidder shall provide satisfactory evidence concerning the following:

7.1 The above stated requirement is minimum and the Purchaser reserves the right to request for any additional information and also reserves the right to reject the proposal of any bidder, if in the opinion of Purchaser, the qualification data is incomplete or the bidder is found not qualified to satisfactorily perform the works.

7.2 Notwithstanding anything stated above, the Purchaser reserves the right to assess the bidder's capability and capacity to perform the work, should the circumstances warrant such an assessment in the overall interest of the Purchaser.

8.0 Language of bid

The bid prepared by the Bidder and all correspondences and documents relating to the bid exchanged by the Bidder and the Corporation shall be in English. Supporting documents and printed literature furnished by the bidder with the bid may be in another language provided they are accompanied by an appropriate and correct translation into English. For the purpose of interpretation of the bid and for all future purposes, only English version will prevail.

9.0 Performance Guarantee:

Within 30 (thirty) days from the date of issue of Letter of Intent / Award, the Contractor shall furnish a Bank Guarantee from a Nationalised Bank for an amount equal to 3 (three) percent of the contract value by way of guarantee for the due and faithful performance of the Agreement and for the due and faithful performance of the letter of Intent/award along with the other terms and conditions agreed to. The Bank guarantee shall be initially valid for such period to cover ninety days after the warranty period as per Agreement. The bank guarantee format is given in Annexure-II of this bid document.

10.0 Agreement

i. After issue of the Letter of Intent/Award and on acceptance by the Contractor, the Corporation shall prepare the Agreement on stamped paper and the Contractor will be informed for signing of the Agreement on a notified date. Alternatively, at the option of the Corporation, a detailed order in plain paper will be issued in favour of the Contractor.

ii. The Contractor shall be required to sign the Contract Agreement in 3 (three) copies, along with appropriate Power of Attorney and other requisite materials. Unless and until a formal Agreement is prepared and executed / Detailed order issued, the Letter of Intent/ Award read in conjunction with the bidding documents will constitute a binding contract.

11.0 Assignment and subletting of Contract:

The Contractor shall not assign or sublet or transfer the contract or any part thereof without the prior consent in writing of the Engineer-in-charge. Any assignment, subletting/subcontracting without prior written approval of the Engineer-in-charge shall be void.

12.0 Liquidated damage:

Time is the essence of the contract. If the performance of the contract is delayed beyond the dates stipulated in the contract due to reasons attributable to the Contractor, the Corporation shall, without prejudice to his right, recover the following damages for breach of the contract:-

i. Reduce the contract price by 1/2 % (half percent) per week or part thereof of delay in completion time, subject to a maximum of 10% (ten percent) of the contract price.

ii. Execute or authorize the execution of the work departmentally or through any other agency without any notice to the Contractor at the risk and cost of the Contractor. The decision of the Corporation in this regard shall be final and binding upon the Contractor. However, the above action shall be taken without canceling the contract in respect of work not yet due for execution, or

iii. Cancel the entire contract or a portion thereof and, if so desired, execute or authorize the execution of the work departmentally or through any other agency at the risk and cost of the Contractor. If the Contractor had defaulted in the performance of the contract, the Corporation may ignore the rates quoted by him for respective work items and accept the lowest for executing through other agency.

Where action is taken under sub-clause (ii) or sub-clause (iii) above for failure to complete the work, the Contractor shall be liable for any loss, which the Corporation may sustain on that account. However, the Contractor shall not be entitled to any gain on such execution and the manner and method of such execution shall be at the entire discretion of the Corporation. It shall not be necessary for the Corporation to serve a notice of such execution on the Contractor.

13.0 Force Majeure:

i. If either Contractor or Corporation (hereafter called as party) is temporarily unable by reason of force majeure or the laws or regulations of India to meet any of its obligations under this Agreement and if such party gives to the other party written notice of the event within 7(seven) days after its occurrence, such obligations of the party as it is unable to perform by reason of the event shall be suspended for as long as the force majeure condition continues.

ii. The Corporation or his authorized representative on receipt of notification shall ascertain the facts and extent of the delays and suitably extend the time for completing the work or stage of work where, in his judgment the findings of facts justify an extension. The period of extension of time shall be determined by the Corporation or his authorized representative after taking into consideration the nature of the work delayed and practicability of its execution during the period of extension.

iii. Although the time for completion of works shall be so suitably extended as indicated in 13.2 above, such extension shall not result in any financial claim of the Contractor against the Corporation on any account whatsoever.

iv. Neither party shall be liable to the other party for loss or damage sustained by the other party arising from any event referred to in clause or delays arising from such event.

v. The terms "Force Majeure", as employed herein shall mean acts of God, acts of public enemy, war, insurrection, riots, epidemics, landslides, and any other similar events beyond the control of either party and which by exercise of due diligence neither party is able to overcome.

14.0 Inspection and test:

i. Upon completion of the various phases of work or at a convenient time during the progress of work, work executed by the Contractor, shall be checked, tested and inspected. Any defects pointed out by the Engineer-in-charge shall be corrected by the Contractor at no additional cost.

All checking and testing procedure shall be performed by the Contractor as directed by the Engineer-in-charge.

ii. The Contractor shall provide all labour, tools, instruments and supervision and shall be responsible for conducting pre-commissioning tests on all equipment, as per relevant standards.

iii. After re-assembly/ re-erection of the Unit, pre-commissioning tests shall be performed by the Contractor under the supervision of the Engineer-in-charge.

iv. During testing and trial run of the Unit, the responsibilities for operation of the equipment under test will be that of the Corporation but the Contractor shall deputo adequate number of skilled workmen, supervisors and Engineers as per requirement of NEEPCO, for running repair and maintenance to ensure that any defect noticed during the trial run is rectified immediately.

15.0 Settlement of disputes:

i. Except as otherwise specifically provided in the Contract, all disputes concerning questions of fact arising under the contract shall be decided by the Engineer-in-charge subject to a writ on appeal by the Contractor to the Engineer-in-charge, whose decision shall be final to the parties hereto.

ii. Any dispute of differences including those considered as such by any of the parties arising out of or in connection with the contract shall be, to the extent possible, settled amicably between the parties. If the dispute could not be amicably settled between the Engineer-in-charge and the Contractor, then the same should be referred to the Corporation prior to proceedings for arbitration.

iii. If amicable settlement cannot be reached, then all disputed issues shall be settled by arbitration as provided in the clause ARBITRATION.

16.0 Arbitration:

i. Except where otherwise provided, if at any time, any question of a dispute or difference of opinion whatever shall arise between the Contractor and the Corporation upon or in relation to or in connection with this contract, either of the parties may give to the other notice in writing, of the existence of such questions, disputes or differences and if the matter is not settled amicably by and between the parties and on rejection, such matter of dispute or difference of opinion shall be referred to the Arbitration strictly in accordance with the provisions contained in the Arbitration and Conciliation Act 1996 (Act. No. 26 of 1996), and any amendment thereto and any rules made there under and to such other order or orders, instruction issu

ed by the Government of India time to time in this connection.

ii. No dispute or difference of opinion, whatever, shall be referable to Arbitration after the expiry period of 1 (one) year from the date when such dispute or difference of opinion arose.

The Contractor shall ensure that the work under the contract shall continue during the Arbitration Proceedings and dispute and no payment due from or payment by the Corporation shall be withheld on account of such proceedings except to the extent that may be in dispute.

iii. If any dispute or difference of any kind whatsoever shall arise between the Corporation and the Contractor, arising out of the contract for the performance of the works, whether during the progress of the work or after its completion, or whether before or after the termination, abandonment or breach of the contract, it shall be in the first place, be referred to and settled by the Corporation or its authorised representative who, within a period of 30 (thirty) days after being requested by the Contractor to do so, give written notice of his decision to the Contractor.

iv. Save as hereinafter provided, such decision in respect of every matter so referred shall be final and binding upon the parties until the completion of the works and shall forthwith be given effect to by the Contractor who shall proceed with the works with all due diligence, whether he or the Corporation requires arbitration as hereinafter provided or not.

v If after the Corporation has given written notice of his decision to the parties, no claim to arbitration has been communicated to him by the Contractor within 30 (thirty) days from the receipt of such notice, the said decision shall become final and binding on the parties.

In the event of the Corporation failing to notify his decision as aforesaid within 30 (thirty) days after being requested or in the event of either the Corporation or the Contractor being dissatisfied with any such decision or within 30 (thirty) days after the expiry of the first mentioned period of 30 (thirty) days, as the case may be, either party may by written notice to the other party require that the matter in dispute be referred to arbitration as hereinafter provided.

vi. All disputes or differences in respect of which the decision, if any, of the Corporation has not become final or binding as aforesaid, shall be settled by arbitration in the manner hereinafter provided. The arbitral tribunal shall consist of a sole arbitrator to be appointed by the Chairman and Managing Director of the Corporation or by his duly authorised representative out of a panel of names of three arbitrators, proposed by him and selected by the other party.

The arbitrator appointed shall have no power to award interest on any claims referred to arbitration. The venue of arbitration shall be Guwahati.

The expense of Arbitration shall be paid as may be determined by the Arbitrators.

The Arbitrator shall have the full powers to review and/or revise any decision, opinions, directions, certification or valuation of the Corporation in connection of the contract, and neither party shall be limited in the proceedings before such Arbitrators to the evidence or arguments put before the Corporation for the purpose of obtaining the said decision.

vii. No decision by the Corporation or his authorised representative in accordance with the foregoing provisions shall disqualify him as being called as witness or giving evidence before the Arbitrators in any matter whatsoever relevant to the dispute or difference referred to the Arbitrators aforesaid. During the settlement of disputes and arbitration proceedings, both parties shall be obliged to carry out their respective obligations under the Contract.

viii. No claims for interest or damages on whatsoever count will be entertained by the Corporation with respect to any money or balance which may be lying with the Corporation owing to any dispute, difference or misunderstanding between the Corporation and the Contractor.

17.0 Decision of Engineer in Charge.

i. In respect of all matters which are left to the decision of the Engineer-in-charge, including the granting or withholding of certificates, the Engineer-in-charge shall, if required to do so, give in writing a decision thereon and the reasons for such decisions.

ii. If in the opinion of the Contractor, the decision of the Engineer-in-charge is not in accordance with the meaning and intent of the contract, the Contractor may file with the Engineer-in-charge, a written objection to the decision within 7 (seven) days after receipt of the same. However, in the process, that Contractor shall continue to execute the work as per instructions of the Engineer-in-charge. Failure to file an objection within the allotted time will be considered as acceptance of the decision of the Engineer-in-charge and the decision shall become final and binding.

iii. The Corporation's decision and filing of the written objection thereto shall be a condition precedent to the right to request for Arbitration. It is the intent of the Agreement that there shall be no delay in the execution of the works and the decision of the Engineer-in-charge as rendered, shall be promptly observed.

18.0 Suspension of work

i. The Corporation reserves the right to suspend and reinstate execution of the whole or any part of the works. Order for suspension or reinstatement of the works will be issued by the Engineer-in-charge to the Contractor in writing. Payments due till date of suspension shall be released by the Corporation.

ii. Any necessary and demonstrable costs incurred by the Contractor as a result of such suspension of the works will be paid by the Corporation, provided that such costs are substantiated to the satisfaction of the Engineer-in-charge. The Corporation shall not be responsible for any liabilities if suspension or delay is due to some default on the part of the Contractor or his Sub Contractor.

19.0 Guarantee / Warranty.

i. For a period of 12 (twelve) calendar months from the date of successful commissioning (called the warranty period), the Contractor shall remain liable to replace any defect and/or rectify any damage/deficiency that may develop or remained undetected in the equipment/works of his own or those of his sub Contractors. Such defects and/or damage shall be repaired or replaced as per the decision of the Engineer-in-charge and solely at the cost of the Contractor. The replaced defective parts will be returned to the Contractor at his own expense, unless otherwise arranged. No repairs or replacement shall normally be carried out by the Engineer-in-charge when the equipment is under the erection / supervision of the Contractor's engineers. If, during the period of warranty any portion of the equipment/works is found defective and is rectified/replaced, the provision of this clause shall apply to the portion of the equipment so replaced/rectified until expiration of 3 (three) months from the date of such replacement/rectification. The rectification/replacement/repairs shall be done at the shortest possible time to minimize the loss of the Corporation and as mutually agreed to. If any defects are not remedied within a reasonable time, the Corporation may proceed to do the work through any other agency at the Contractor's risk and expenses, but without prejudice to any other rights which the Corporation may have against the Contractor.

ii. In the event of emergency where, in the judgment of the Engineer-in-charge, delay would cause serious loss or damage, repairs, replacement, rectification, adjustment etc. may be done

by the Engineer-in-charge or by any other agency chosen by the Engineer-in-charge at the cost of the Contractor and without any advance notice to the Contractor. However, the Contractor will be notified promptly and he shall assist the Corporation/other agency employed for necessary corrections. This shall not relieve the Contractor from any of his liability under the terms of the contract.

ii. The repair or new parts will be furnished and erected free of cost by the Contractor. If any repair is carried out on his behalf at the site, the Contractor shall bear the cost of such repair/replacement.

iv. In case of defective parts which are not repairable at site but are essential for the operation of the equipment, the Contractor and the Engineer-in-charge shall mutually agree to an improvised arrangement to be made by the Contractor to ensure continued plant operation and to a programme of replacement or renewal which will minimize interruption/dislocation to the maximum extent in the operation of the equipment. The cost of transportation and insurance of defective parts from site and of replacement will be borne by the Contractor.

20.0 Spares and consumables:

i. All tools and consumables to be arranged by the contractor under the contract will strictly conform to their standard specification and will have to be inspected by the Engineer-in-charge prior to putting to use.

ii. The Contractor will provide the Engineer-in-charge with all the addresses and particulars of his sub suppliers while placing the order on vendors for consumables/ Items/components/equipment covered under the Contract.

21.0 Payment.

ii. The payment to the Contractor for performance of works under the Contract will be made by the Corporation as per the guidelines and conditions specified herein.

iii. L1 bidder have to submit the Breakup of prices as per PRICE SCHEDULE (attached herewith) after finalization of bid.

21.1 Terms of Payment:

i. Supply, Delivery, Erection, Testing and Commissioning: 100% payment for Supply, Delivery, Erection, Testing and Commissioning shall be released after commissioning and successful test run of the system for 7 (seven) days.

ii. Annual Maintenance Contract: 100% Payment payable for a period of 1 (one) year shall be released on yearly basis after completion of the year.

iii. Payment of Supply, Delivery, Erection, Testing and Commissioning along with mandatory spares (if any) will be made on GeM.

iv. Payment for the AMC will be made outside GeM. Only the payment of 21.1 (i) & (ii) will be made on GeM.

21.2 Bill in triplicate, along with work completion certificate, shall be submitted to the Sr. Manager (Fire & Safety) for releasing payment.

21.3All bank charges shall be to the contractors account.

22.0 Facilities to be provided by the Corporation

22.1 Accommodation:

Temporary accommodation for the Contractor's personnel shall be provided by the Corporation. For the purpose, the Contractor should submit a list of personnel proposed to be deployed for execution of the works at site.

22.2 Tools and equipment:

Except in case where the Owner's express permission is applied for and received in writing, no use of the Corporation's plant facilities, shall be made by the Contractor or his employees.

The Corporation shall not be responsible or held liable for any damage to person or property consequent upon the use, misuse or failure of any construction tools and equipment used by the Contractor or any of his sub-Contractors, even though such construction tools and equipment may be furnished, rented or loaned to the Contractor or any of his sub-Contractors. The acceptance and/or use of any such construction tools and equipment by the Contractor or his sub-Contractors shall be construed to mean that the Contractor accepts all responsibility for and agrees to indemnify and save the Corporation from any and all claims for said damages resulting from said use, misuse or failure of such construction tools and equipment.

23.0 Cleanliness

The Contractor shall be responsible for keeping the entire area allotted to him clean and free from rubbish, debris etc., during the period of contract. The Contractor shall employ enough number of special personnel to thoroughly clean his work area at least once in a day. All rubbish and scrap materials shall be stacked or disposed in a place to be identified by the Engineer-in-Charge. Materials and stores shall be so arranged to permit easy cleaning of the area. In areas where equipment might drip oil and cause damage to the floor surface a suitable protective cover of a flame resistant, oil proof sheet shall be provided to protect the floor from such damage.

Wastes should be identified and separated into bio-degradable and non-bio-degradable type. The same should be stacked or disposed as per instructions of the Engineer-in-charge.

24.0 Completion of Contract

Time is the essence of the Contract. The Completion Period for the entire scope of work is 4 (four) months. The Contractor shall provide full programme of the supply and work in detail and completion schedule of activities. Strict adherence to the completion schedule shall be the essence of the contract.

25.0 Data to be furnished by the Contractor.

The logbooks for the work and those of machinery shall be properly maintained and any information on the operation and maintenance of machinery shall be furnished to the Engineer-in-charge or his authorized representative, when required. Any other information of a similar nature, which may be required, shall also be furnished.

26.0 Cleaning up of the work site

Upon completion of the work, the Contractor shall remove from the vicinity of the work all plants, buildings, rubbish, unused materials, concrete forms and other like materials belonging to him or used during construction and, in the event of his failure to do so, the same will be removed by the Corporation at the expense of the Contractor and the same shall be recovered from his dues.

27.0 Engineer's Supervision

To eliminate delays and avoid disputes and litigation it is agreed between the parties to the contract that matter and question shall be referred to the Engineer-in-charge and his decision given in writing shall be implemented by both the parties.

The work shall be performed under the direction and supervision of the Engineer in Charge.

28.0 Safety

Prevention of all types of accidents is the responsibility of the Contractor. The Contractor shall arrange and adopt all comprehensive safety measures and codes in every stage of work at his own cost and his employees and workmen shall follow all safety measures, procedure, rules and regulations vigorously at all times. The Contractor, at his own cost, shall train his people about safety measures, codes, procedure rules and regulations. The Contractor shall be solely responsible for all losses and / or damages arising out of any lacking in this respect and any resultant accident.

29.0 Removal of improper works and materials

According to instruction of the Engineer-in-charge, the Contractor shall, at his own expense, remove from the site :-

(a) All materials which are not required for the work and which are supplied by the Contractor.

(b) All defective material is supplied by the Contractor and which have been rejected by the Engineer-in-charge.

(c) Resultants of any defective works which have been rejected by the Engineer-in-charge.

30.0 Subletting of work

No part of the work shall be sublet by the Contractor directly or indirectly to any body without prior permission in writing of the Engineer-in-charge.

31.0 Quality assurance plan / quality control

The bidder shall strictly adhere to the quality management and procedures according to the latest standards, codes, norms and prevailing practices and according to the instructions outlined in the specification and of the engineer-in-charge during the execution of the contract.

32.0 Extra Work:

The Contractor shall have to execute such items of work, which, in the opinion of the Engineer-in-charge is unavoidable for proper execution of work and for proper performance of the plant. Suitable time extension shall be given for execution of such extra work.

Schedules as provided in this bid document shall be duly filled in by the bidder.

FORM : 1 REGISTER OF WORKMEN

1. Name and address of the Contractor/sub Contractor

2. Agreement No. .....

Sl.No.	Identity Card No. of worker	Name and surname of the worker (fill in category wise)	Age & Sex	Father's/husband's name	Nature of employment/ designation	Details of wages & other allowances paid	Permanent home address of employees (village and dist)	Present address	Date of commencement of employment	Date of termination or leaving of employment	Details wages & allowances drawn	Signature or thumb impression of the employees	Affix attested copy of passport size photo of worker	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Note:

1. The Contractor shall furnish a copy of the register of workmen to the Engineer -In- Charge of the work for permanent record in his Office.
2. Column No. 12 to be filled in by Corporation on receipt of details of termination from the Contractor.
3. Copies of register with photographs of workman shall be sent to the Engineer in charge.

SPECIFICATIONS FOR WORKS TO BE EXECUTED

TECHNICAL SPECIFICATIONS FOR 75 KLD SEWAGE TREATMENT PLANT

1. SCOPE

1.1 This specification covers the Design, Manufacture, Shop Assembly, Shop Testing at Manufacturer's Works before dispatch, Supply, Delivery at site, Freight, Insurance, Loading, Unloading, Handling at site, Erection, Testing and Commissioning of 75 KLD Sewage Treatment Plant (MBBR type) as specified hereinafter with all accessories and auxiliaries and spares for three years satisfactory operation and maintenance at Assam Gas Based Power Station, No. 3 Bokulani Village, Dist: Dibrugarh, Assam as detailed in the Schedule of Requirements of this specification.

The scope of works shall include but not limited to the following:

1.1.1 Design of Sewage Treatment Plant: - Design shall essentially include but not limited to the following:

i) Process Design.

ii) Preparation of general arrangement drawing with necessary information.

iii)Selection of all mechanical and electrical equipment like pumps, motors, pipes, sleeves, valves, switchgear, cable etc.

iv) Preparation of detail engineering drawings.

1.1.2 Supply and Installation of Mechanical and Electrical Equipment like automatic bar screens, raw sewage transfer pumps, all mechanical and electrical equipment for the reactor, sludge recycling / lifting pumps, plant room, drainage pumps, filters, disinfecting units etc. as described in the specification.

1.1.3 Major civil works like construction of underground tank, equipment foundation etc. The Contractor will have to provide detail drawings regarding the requirement of civil works.

1.1.4 Interconnecting Pipes: All interconnecting pipe works should be MS (medium duty) with outer epoxy painted (with applicable colour code) starting from screen chamber to discharge header of the treated Effluent transfer plant including making arrangement for STP bypass and surplus effluent disposal, supplying and fixing all pipe sleeves in the civil works is also included in the scope of works.

1.1.5 Electrical Works: Pump control panel and all inter connecting power and control cabling for pumps, valves etc. interlocking of dosing system etc. including installation of electrical earthing arrangement.

1.1.6 MS structural works for the walkways, ladders, pipe supports, manhole covers etc.

1.1.7 Testing and commissioning of the Plant including supply of consumables for completion of Commissioning Activities of the plant.

1.1.8 Training of the personnel of the Employer for operation and maintenance of the Plant.

1.1.9 Full comprehensive operation & maintenance of the plant including supply of consumables as required for 36 (thirty-six) months commencing immediately after commissioning. However, the contractor shall have to guaranteed/warranted the supplied equipment including all accessories for satisfactory performance for a period of 12 months from the date of commissioning of the plant.

1.1.10 The contractor shall submit detail Operation & maintenance Manual (Soft & hard copy) to the Corporation.

2. BASIC PARAMETERS

The following basic parameters are to be considered for the designing:

i	Nature of Waste Water	Domestic sewage including water from toilets and kitchens from the colony area.
ii	Expected daily flow	100 M^3 / day
iii	Average flow rate for primary and secondary treatment	5 M^3 / hr
iv	Tertiary Treatment	5 M^3 / hr
v	Basic	Multi grade sand filtration, activated carbon filter, Chlorine disinfection system

3. Expected Raw Waste

Characteristic	Value
pH	9.5
BOD	350 mg/litre
Suspended solid	400 mg/litre
COD	750 mg/litre
Oil & Grease	Upto 100 mg/litre

4. Desired Treated Effluent Characteristics

Characteristic	Value
pH	6.5 to 8.5
BOD	less than 10 mg/litre

Suspended solid	Less than 10 mg/litre
COD	Less than 50 mg/litre
Oil & Grease	Upto 1 mg/litre
Colour and Odour	Treated effluent for flushing shall be aesthetically acceptable and odour free.

5. Reuse of Treated Effluent: Shall be used for WC flushing of administrative building of this power station.

6. Statutory Requirement: Effluent quality shall meet the requirements of Assam Pollution Control Board and Central Pollution Control Board.

7. Site Condition: Considering the site constraint, the tenderer shall carefully design the system so that minimum space is utilized. However the tenderer may inspect the site before submission of bid.

8. DRAWINGS AND INSTRUCTION MANUALS

8.1 The tenderer shall submit with the tender relevant drawings with illustrated and descriptive literature.

8.2 In addition to above, the tenderer may supply any other drawings, which in his opinion / purchaser's opinion is required to describe the equipment in full details.

8.3 Required number of the instruction manuals covering instructions for installation and maintenance check tests shall be supplied by the contractor as a part of this contract.

9. GUARANTEED AND TECHNICAL PARTICULARS

9.1 Guaranteed and technical particulars as per Schedule of requirement given in Schedules shall be furnished along with the tender. Particulars which are subject to guarantee shall be clearly marked. Any tender lacking complete information in this respect is likely to be rejected.

10. ERECTION, TESTING AND COMMISSIONING

10.1 The receipt, storage and handling of materials at site is in the scope of the bidder. Temporary space for storage at site shall be provided by the Corporation. All civil works for the purpose of erection of the STP shall be in the scope of the bidder. All consumables required for commissioning shall be under the scope of the bidder.

11. GUARANTEE:

Entire STP shall be guaranteed for satisfactory performance for a period of 12 months from the date of Commissioning. All breakdown and defects during this period shall be attended and components shall be replaced by the bidder at free of cost. The replaced part shall also be guaranteed for 12 months with effect from the date of replacement.

12. MAINTENANCE CONTRACT:

Full comprehensive operation & maintenance Contract of the plant including supply of consumables as required for 36 (thirty-six) months commencing immediately after commissioning. The analysis report of treated sewage is to be submitted to Manager (Safety), F&S Division on every month. The report should comply with our requirement.

However, the contractor shall have to guarantee/warranted the supplied equipment including all accessories for satisfactory performance for a period of 12 months from the date of commissioning of the plant.

13. COMPLETENESS OF EQUIPMENT

All fittings and accessories for the specified equipment though may not have been specifically mentioned in the specification but are usually necessary for completeness of the above system, shall be deemed to be covered by the specification and shall be indicated and furnished by the contractor without any charges.

14. DEVIATIONS

Any deviations from specifications shall be separately listed with proper justification as per proforma given in schedule-IV in the absence of which it will be presumed that the provisions of the specifications are fully complied with by the tenderer.

15. SIMILAR INSTALLATIONS

The tenderer shall furnish as per schedule-I A/c a list of similar equipment supplied by him giving the details of customer, capacity of installation, value of order and year of commissioning.

16. COMPLETION PERIOD

The entire scope under this specification should be completed within 4 (four) months from the date of issue of letter of Intent. The bidder shall furnish the schedule of deliveries and e xecution with the technical bid.

17. PRICES

The tenderer is to quote prices as per the PRICE SCHEDULE for Supply, Delivery, Erection, Testing and Commissioning of the system and Annual Maintenance Contract of the system fo r 3 years. For mandatory spares, if ANY, the tenderer is to quote the prices in a list. It is mandatory to submit the list of mandatory spares along with technical bid.

TECHNICAL SPECIFICATION OF STP 75 KLD (MBBR TYPE)

Bidder shall furnish the required information about the STP offered for execution of the work.

1. Coarse Screen Chamber

No. of Units	1 No
Capacity	5KL
MOC Screen Chamber	Cement Concrete Chamber with SS Coarse Screen

2. Equalization cum pre-aeration tank

No. of Units	1 No
Capacity	50 KL
MOC	RCC

3. Air Blower (suitable for aeration)

No. of Units	2 No (1w+1s)
Capacity	100 CFM (Minimum)
Design Head	The bidders are to furnish
Type	
RPM	
Drive	
Make	

4. Effluent Feed Pumps (Suitable for continuous duty)

No. of Units	2 No (1w+1s)
Capacity	6 KL/hr. x 8 M head (Minimum)
Design Head	The bidders are to furnish
Type	
MOC	
Drive	
Make	

5. Filtrate Feed Pumps

No. of Units	2 No (1w + 1s)
Capacity	6 KL/hr. x 8 M head (Minimum)
MOC	The bidders are to furnish
Drive	
Make	

Design Head	Suitable to operate 25 KLD offered MBBR

6 -MBBR Reactors

No. of Units	2 No
MOC	The bidders are to furnish

7 -Tube Settler

No. of Units	1 No
Capacity	1.5m3/hr
MOC	The bidders are to furnish

9- Pressure Sand filter

No. of Units	1 No
Capacity	8 KL/hr. (minimum)
Size	800x 1800 HDS (mm)
MOC	FRP

10 -Activated Carbon filter

No. of Units	1 No
Capacity	8 KL/hr. (minimum)
Size	800 x 1800 HDS (mm)
MOC	FRP

11- Dosing system

No. of Units	1 No
The Bidders are to offer the detail specification of the offered system.	

12- HYPO Tank

Capacity	500 Liters
No. of Units	1 No
MOC	HDPE

22 - Abrasion Media

Capacity	600 kg
Size	4ft, 8/16, 16/32

14- Activated Carbon

Capacity	200 kg
ID value	600

15-Tube DECK media

Capacity	4.5-meter cube
Size	150 x 750 mm
MOC	The bidders are to furnish
Make	

16- MBBR media

Capacity	5-meter cube/hr.
MOC	The bidders are to furnish
Make	

17 - Dilution Unit

Capacity	6 LPH
Quantity	1 No
MOC	The bidders are to furnish
Make	

18- Pressure Indicator

No. of Unit	The bidders are to furnish
Type	
Make	

19- Flow Meter

No. of Unit	The bidders are to furnish
Type	
Make	

20. Motor Control Centre (M.C.C.):

No. of Unit	The bidders are to furnish
Type	

21. Cabling& Earthing:

Cables)	As per site requirement
Type	As per site requirement

****

Annexure-I

FORM- B: UNDERTAKING FOR BIDDERS WHO ARE REGISTERED AS MICRO AND SMALL ENTERPRISES

A. I/We confirm that the provision of Micro and Small Enterprise are applicable to us and our Organization falls under the definition of following category:

i) [ ] - Micro Enterprises

ii) [ ] - Small Enterprises

Please tick the appropriate option box)] and attach relevant documents/certificates issued by ..... (District Industries Centre or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board, or National Small Industries Corporation or Directorate of Handicrafts and Handlooms or any other body specified by Ministry of Micro, Small & Medium Enterprises) as evidence of their applicability of Micro and Small Enterprises.

B. I/We also undertake to inform the change in this status as aforesaid during the currency of the Contract, if any.

Dated:

Signature of Bidder

ANNEXURE -II

Proforma of Bank Guarantee for Contract Performance

(To be stamped in accordance with Stamp Act)

Ref..... Bank Guarantee No.....

Date .....

To,

.....

.....

Dear Sir,

In consideration of the North Eastern Electric Power Corporation Ltd.: (hereinafter referred to as the "Purchaser" which expression shall unless repugnant to the context or meaning thereof include its successors, administrators or and assigns) having awarded to M/s ..... with its Registered Head Office at .....

.....

(hereinafter referred to as the "Contractor" which expression shall unless repugnant to the context or meaning thereof include its successors, administrators or and assigns) a contract by issue of Purchaser's Letter of Intent No ..... dtd .....and the same having been unequivocally accepted by the Contractor resulting in a "Contract" valued at Rs .....

..... (Rupees.....)

only for .....

(scope of the Contract)

and the Contractor having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire Contract equivalent to 10 (ten) percent of the said value of the Contract to the Purchaser.

We.....

(Name and address of the Bank)

having registered Office at ..... (hereinafter referred to as the "Bank" which expression shall unless repugnant to the context or meaning thereof include its successors, administrators, executors or and assigns) do hereby guarantee and undertake to pay the purchaser, on demand any and all money payable by the Contractor to the extent of as aforesaid at any time upto ..... (day/month/year) without any demur, reservation, contest, recourse or protest and/or without any reference to the Contractor. Any such demand made by the Purchaser on the Bank shall be conclusive and binding notwithstanding any difference between the Purchaser and Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other Authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the Purchaser and further agrees that the guarantee herein contained shall continue to be enforceable till the Purchaser discharges this guarantee.

The Purchaser shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance of the contract by the Contractor. The Purchaser shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the Contract between the Purchaser and the Contractor or any other course or remedy or security available to the Purchaser. The Bank shall not be released of its obligations under these presents by any exercise by the Purchaser of its liberty with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the Purchaser or any other indulgence shown by the Purchaser or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank.

The Bank also agrees that the Purchaser at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Purchaser may have in relation to the Contractor's liabilities.

The liability or obligation of the Bank under this guarantee bond shall not be affected or suspended by any dispute between the purchaser and the supplier and the payment under this guarantee bond need not wait till the disputes are decided by a Competent Court or Tribunal or any other authority and that any payment made by the bank to the purchaser under the guarantee bond shall be deemed to have been rightfully and lawfully made.

Lastly the Bank also assures that the guarantee bond will not be discharged due to the change in the constitution of the bank or the contractor.

Not withstanding anything contained herein above our liability under this guarantee is restricted to Rs..... (Rupees.....) only and it will remain in force upto and including .....and shall be extended from time to time for such periods as may be advised by the Purchaser who is the beneficiary under this guarantee and in the event if the Contractor fails to comply such extension within the validity period, this shall be treated as a claim by the purchaser on the Bank.

Dated this .....day of .....200 ..... at .....

Witness:

1.

.....

(Signature)

.....

(Name)

(Signature).....

(Name)

Designation with

Bank Stamp.....

Authority as per Power

Of attorney No.....

.....

(Official Address)

Dated .....

Note: (1) This sum shall be ten percent (10%) of the "Contract Price".

(2) The date of validity of this Bank Guarantee will be ninety (90) days after the end of the warranty period or as specified in the Contract.

(3) The BG shall be submitted preferably from a Nationalized Bank

SCHEDULE-I

SCHEDULE OF SIMILAR WORKS

The bidder shall furnish below a list of similar works executed by him

SN	Name of Work	Value of order	Customer	Year of Execution

Signature of Tenderer

Name & Stamp

SCHEDULE II

SCHEDULE OF TOOLS AND TACKLES

Bidder shall insert the required information on the tools and tackles which will be made available at site for execution of the work.

Description of Tools and tackles	Make/Model	Quantity

(Signature of the Bidder)

Name & Stamp

SCHEDULE-III

SCHEDULE OF PERSONNEL/ MANPOWER TO BE DEPLOYED

Bidder shall insert the required information regarding personnel/ manpower proposed to be deputed for the work.

Designation / Trade	No. of persons

(Signature of the Bidder)

Name & Stamp

SCHEDULE -IV

SCHEDULE OF DEVIATION FROM SPECIFICATION

Unless specifically mentioned in this schedule, the bid shall be deemed to conform to the Corporation's specification.

SN	Clause no.	Details of Deviation	Justification for Deviation

Certified that the above listed deviations and exceptions are exhaustive and the contract shall be executed as per tender specifications excepting for above deviations and exceptions in the eve nt of placing an order on us.

(Signature of the Bidder)
Name & Stamp

SCHEDULE-V

SCHEDULE OF WORKS CURRENTLY IN HAND

The bidder shall furnish below a list of works which are currently being executed by him

SN	Name of Work	Value of order	Customer	Place of Execution

Signature of Tenderer

Name & Stamp

SCHEDULE- VI

Current Litigation History

Bidders, or each of the Partners of a joint venture, should provide information on current litigation and/or arbitration. A separate sheet should be used for each Partner of a joint venture.

Name of client, cause of litigation and subject of dispute	Disputed Amount (current value)	Litigation going on since (mon/yr)
1	2	3

(Signature of the Bidder)

Name & Stamp

PRICE SCHEDULE:

SCHEDULE OF PRICES FOR SUPPLY, DELIVERY, ERECTION, TESTING AND COMMISSIONING AND OPERATION & MAINTENANCE FOR A PERIOD OF 3 (THREE) YEARS

(To be quoted in figures and words)

Sl no	Item Description	Qnty.	Ex-work Price		GST	Transportation Charges		Insurance Charges		Total FOR Destination Price
			Unit Rate in Rs.	Total in Rs.	Rs.	Unit Rate in Rs.	Total in Rs.	Unit Rate in Rs.	Total in Rs.	Total in Rs.
1	2	3	4	5	6	7	8	9	10	11
1	Supply, Delivery, Erection, Testing & Commission ing	Lot								
2	Operation & Maintenance for 3 yrs	1				—	—	—	—	
3	Mandatory Spares, if any (List of mandatory spares to be submitted)	Lot				—	—	—	—	

GST shall be indicated clearly.

Any other information:

Signature of bidder

Name

Stamp

Note: 1. If the bidder is eligible for any concessional taxes and duties, they should invariably mention this in the bid on or before the date of opening of price bid, the bidder should confirm any change in this regard. The price bids would be evaluated on the basis of information supplied by the bidder and hence the actual payment of taxes and duties shall be limited to the extent mentioned in the bid or in subsequent confirmation.

2. If the bidder did not mention the price(s) of any item, then his offer may either be considered as incomplete or will be loaded by the highest price quoted by the other bidder for that item.

3. For all items, prices should be quoted in the above schedule based on the Schedule of requirement.

4. In addition to filling up of this schedule, the tenderer shall attach separately a detail list of materials he is supplying along with their item wise prices.

Note: This is system generated file. No signature is required. Print out of this document is not valid for payment/ transaction purposes.

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉरपोरेशन लिमिटेड
(भारत सरकार का संस्थान)
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
(A Govt. of India Enterprise)
Assam Gas Based Power Plant
BOKULONI, DIST. DIBRUGARH, ASSAM, PIN - 786 101
E-mail : agbp.bokuloni@gmail.com

Ref. No. NEEPCO/AGBP/PEM/O&M-05/2021-22/ 483 Date:. 25/3/2022.

To,

BHARAT HEAVY ELECTRICAL LIMITED
HEAVY POWER EQUIPMENT PLANT,
RAMCHANDRAPURAM
HYDERABAD-502032

Sub: Detailed Work Order for Technical Advisory Services for Major Overhauling and Testing of Generator and exciter of Gas Turbine # 5 **(Type TARI 800 26P)** at AGBPS, NEEPCO Ltd., PO. Bokuloni Chariali, Dibrugarh, Assam. (Kathalguri)

Ref: 1. Our Enquiry vide NEEPCO/AGBP/PEM/O&M-05/2021-22/182 dtd. 13.08.2021
2. Your offer vide HY/ES/21FSSQ905084/2021-22 dtd. 20.08.2021
3. Our letter for clarification vide NEEPCO/AGBP/PEM/O&M-05/2021-22/339 dtd. 18.12.2021
4. Your reply vide email dtd. 18.01.2022, 1142Hr
5. Our email dtd. 18.01.2021, 1343Hr
6. Your reply dtd.18.01.2021 1529Hr

Dear Sirs,

With reference to above, the Corporation is pleased to place this Work Order for Technical Advisory Services for Major Overhauling and Testing of Generator and exciter of Gas Turbine # 5 **(Type TARI 800 26P)** as per the following rate and terms & conditions.

1. **SCOPE:** Bharat Heavy Electrical Limited (BHEL) shall conduct complete overhauling of the subject generator and exciter by deputing required Technical Advisors and Manpower. Complete overhauling will include dismantling, overhauling, servicing, re-assembly, re-erection, testing and re-commissioning of the unit. Detailed scope of work is as detailed in Annexure-I.

2. **Rate:** The Complete charge for the subject work is **Rs. 65,00,000.00 (Rupees Sixty five Lakh) only.** The Taxes and Duties shall be paid extra at actual and shall be as per prevailing govt rules. Present rate of GST is 18%. **THE PRICE SHALL REMAIN FIRM TILL THE COMPLETION OF THE WORK.**
   a) *Idling Charges:* If for any reason beyond BHEL's control, viz. non-availability of spares, consumables, equipment to be overhauled and connected auxiliaries etc. the work prolongs beyond the stipulated period, extra charges will be levied for the extended period of works as below:

1 | 3

Idle charges: Rs. 1,50,000.00 per day

In case, quarantine is applicable at our state, Idle charge will be applicable as per offer for the team.

b) *Demobilization and remobilization charges*: One-time demobilization and mobilization charges are included in the price. Post 1 demobilisation and mobilization, if during the course of work, interruption of work exceeding one week is anticipated for reasons not attributable to M/s BHEL, M/s BHEL can withdraw their personal along with T&P. However, the same shall be remobilized on hearing of NEEPCO's request for remobilisation.

Demobilization and remobilisation (7 days intimation for vendor and 48 hours intimation for BHEL service engineer) of site shall be charged extra to contract value for a lump sum value of Rs.5,00,000.00.In case of remobilisation of any BHEL service engineer charges will be Rs.70,000.00 per 8 hours per person.

c) *Accommodation & Local conveyance*: Accommodation shall be provided to the Service Engineer/ Overhauling team at our Guest houses free of cost. M/s BHEL is requested to submit the complete list of the team members mentioning the designations, alongwith double vaccination certificates, well ahead of mobilization for necessary arrangement.

However, food shall be on chargeable basis.

To and Fro journey from nearest Airport/ Train station to Site and Local conveyance shall be arranged by NEEPCO for the service engineer/ overhauling team.

3. **Completion Period**: The complete overhauling shall be completed by BHEL within 26 (Twenty six) days. However, BHEL is requested to put the best effort to complete the overhauling job in as minimum days as possible. Bar chart for work schedule shall have to be shared before site mobilization.

NEEPCO shall give minimum advance notice of 2 months for the mobilization from the date of order or 20 days of written intimation whichever is later.

4. **Payment Terms**: Payment term will be as following:

20% of contract value on site mobilization
70% of the contract value on the completion of work.
10% of the contract value on completion of warranty period.

Payment shall be released on submission of the following documents:

a) Original bill in triplicate,
b) Test Report,
c) Completion certificate,
d) Warranty Certificate and
e) Bank account details.

5. **Warranty**: The overhauled generator and exciter shall be guaranteed for a period of 3 (Three) months for any defective workmanship limited within BHEL's scope. If any such defects are noticed and proved that the problem is solely due to bad workmanship of BHEL, those shall be rectified free of cost within the guaranteed period.

6. **Tools and Equipment:** NEEPCO shall arrange all tools & plants required for conducting the overhauling which were supplied by the OEM. M/s BHEL shall arrange all special test equipment required for conducting the tests. However, NEEPCO can arrange the regular kind of testing equipment.

7. **Safety and Insurance:** M/s BHEL shall arrange all needful regarding the safety on engaged man power and also arrange valid appropriate insurance for them.

8. **Force Majeure:** M/s BHEL shall not be liable for loss and damage resulting from any delay or failure to complete the work, within time specified for all or any part of work due to acts of God, war declared or undeclared, act of public enemy, riots, civil commotion, invasion, insurrection, sabotage, act of restraints of Government, federal, state or municipal action or regulation, embargoes, strikes or other labour troubles, fire, flood, hurricanes, accidents, epidemics, earthquakes, quarantine restrictions, damage to or destruction in whole or in part of the tools and equipment or any failure on the part of NEEPCO or representative to supply materials, drawings or other technical documents in time or any other causes, contingencies or circumstances not subject to M/s BHEL's control, whether of a similar or dissimilar nature which prevents the work, any such causes or delays even though existing on the date of the contract or during the period of execution of work shall extend the time of M/s BHEL's performance by the length of delays occasioned thereby including delays reasonable incident to the resumption of normal work even though such case may occur after performance of our obligation has been delayed for the other causes.

9. **Paying Authority:**

The Gen. Manager (F)
F&A, AGBPS, NEEPCO Ltd.
PO. Bokuloni Chariali-786191
Dist. Dibrugarh, Assam

Please acknowledge the receipt of this work order and confirm your acceptance thereof.

Thanking you,

Yours faithfully,

DGM (E/M), PEMC
AGBPS, NEEPCO Ltd.

Mitsubishi Corporation

6-1, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-8086, JAPAN

Date: September 16, 2009
Ref.: MPB/XA-F014

North Eastern Electric Power Corporation Ltd.
(A Government of India Enterprise)
Assam Gas Based Power Project
Attn.: Mr. D. Choudhury, Senior Manager(E)
For & on behalf of General Manager & Head of Project

Subject: NEEPCO/AGBP-Requirement of Spares for Chubb Fire Engineering, U. K. make CO_2 Fire Fighting Systems of MHI Make Gas Turbine Unit Nos. 1-4.

Ref.: Your Letter No. NEEPCO/AGBP/HOP/W-17/2009-10/332 dated August 29, 2009

Dear Sir,

With reference to the captioned subject, although we are requested to submit our offer urgently, we regret to inform you that it is expected to take long time for the quotation work.

Please be informed that the inquired items are overseas procurement items. Due to bankruptcy and absorption, the overseas vender has not found their old document at the time of supply and the inquired items have not been identified yet.

It is highly possible that the items are discontinued since they are items which were supplied ten-odd years ago, however, it is expected to take long time to check whether we can supply the substitutes also.

We apologize for the inconvenience, but we are making effort to inform you the result at the earliest.

Please do not hesitate to contact us if you have any questions or comments.
Thank you for your kind attention to the above, we are,

Very truly yours,
MITSUBISHI CORPORATION

T.YODA
General Manager
Power Systems Export Unit,
Power & Electrical Systems Division

Receipt No. 10/...
Date 22/10/09 File No. T-39
Fire & Safety Wing.

Copy: MC-DEL (MAC) / MHI-TGO

No. NEEPCO/AGBP/HOP/W-17/2009-10/ Dated

To: M/S Mitsubishi Corporation,
Power Systems Export Unit,
Power & Electrical Systems Division,
3 – 1, Marunouchi 2 – chome, Chiyoda – ku,
Tokyo 100 – 8086, Japan.
(Fax No. 011 – 43682333)

ATTN: Mr. T. Yoda, General Manager.

Sub: NEEPCO/AGBP – Requirement of spares for Chubb Fire Engineering, U.K. make CO_2 Fire Fighting systems of MHI make gas turbine unit nos. 1 – 4.

Dear Sirs,

We are in urgent requirement of the following spare parts for the Chubb Fire Engineering, U.K. make skid mounted CO_2 Fire Fighting systems of MHI make MW 251 B gas turbine unit numbers 1 to 4, which were supplied by you alongwith the main plant under the turnkey contract:

1. CO_2 Container Discharge Valves type TF-12 as per drawing No. FDDBO 1596: 60 numbers;

2. Nitrogen Cartridge Assembly (43.002) as per drawing NO. FDDBO 1449 / 4: 24 numbers.

Further technical details of the above mentioned spare parts are enclosed as Annexures I & II respectively.

Kindly appreciate that the Fire Fighting systems are lying defunct at present for want of these vital spares and, therefore, the same are required extremely urgently. **Hence, we would request you to kindly attach topmost priority to the matter and submit your offer for supply of the above items at the earliest.**

Enclo: As stated above.

Thanking you,

Yours faithfully,

(D. Choudhury)
Senior Manager (E)
For & on behalf of
General Manager & Head of Project

NIO
Memo. No. NEEPCO/AGBP/HOP/W-17/2009-10/ 333 Dated 29/8/09

Copy to:
Sr. Manager (F&S), AGBP, NEEPCO – for information

Details of CRR & CRI

As per recommendation of OEM, M/s Mitsubishi Corporation, Japan, either CRR-CRI (compressor rotor refurbishment and comprehensive Rotor inspection) or replacement of turbine rotor of Gas Turbine is necessary to obtain the desired output of the turbine after 1 lakh fired hours. This will enhance the life of the GT.

Accordingly, NEEPCO had placed an Order No. NEEPCO/AGBP/HOP/13-14/W-8(A)/205 dated 28.05.13 for CRR & CRI of three MHI supplied Gas Turbine Rotors along with procurement of one new Gas Turbine Rotor in 2013.

The ***new Gas Turbine Rotor was installed in Gas Turbine # 4 in July' 2015*** and the original Rotor removed from Gas Turbine Unit # 4 was sent to Japan for CRR and CRI in Aug' 2015 and it was received in Japan in October' 2015.

After ***CRR and CRI this Rotor was installed in Gas Turbine # 3 in June – July 2017***. The Rotor removed from Gas Turbine Unit # 3 was sent to Japan for CRR & CRI in Dec' 2017 and the Rotor was received in Japan in Feb' 2018.

After ***CRR & CRI in Japan the refurbished Rotor was received in May' 2020 and it was installed in Gas Turbine Unit # 2 in March – April' 2022***. The original Rotor from the Unit # 2 was sent to Japan for CRR & CRI in July' 2022.

After CRR & CRI, the refurbished Rotor was received at AGBPS in May' 2024 and it was installed in Gas Turbine Unit # 1 in July – August' 2024. The Rotor coming out from the Unit # 1 has been preserved in container. As such, the contract is closed in July – August' 2024.

The Details of procurement of New rotor and CRR / CRI of old rotors are as follows:

Rotor	Event	Date
New Rotor	Received at AGBPS	03.12.2014
	Installed in GT # 4	July' 2015
Original Rotor of GT U # 4	Despatched from AGBPS	10.08.2015
	Received at Takasago, Japan	22.10.2015
	Despatched from Takasago, Japan after CRR & CRI	01.02.2017
	Received at AGBPS	02.04.2017
	Installed in GT # 3	July' 2017
Original Rotor of GT U # 3	Despatched from AGBPS	08.12.2017
	Received at Takasago, Japan	21.02.2018
	Despatched from Takasago, Japan after CRR & CRI	05.03.2020
	Received at AGBPS	22.04.2020
	Installed in GT # 2	April' 2022
Original Rotor of GT U # 2	Despatched from AGBPS	19.07.2022
	Received at Takasago, Japan	19.09.2022
	Despatched from Takasago, Japan after CRR & CRI	04.03.2024
	Received at AGBPS	15.05.2024
	Installed in GT # 1	August' 2024

JUSTIFICATION

The reasons for replacement of old Waukesha Gas Engine with new higher capacity AT 12V 275GL+ Waukesha Gas Engine with its auxiliaries and enhancement of Gas Compressor capacity were as follows:

1. The Old Gas Engine was old and obsolete.
2. There was a design problem for which the engine power was not sufficient to drive the compressor.
3. To increase reliability of the Gas Booster Station (GBS) as well as the plant.
4. The Old Gas Compressors were unable to deliver and 4 units were put into service to run all the 6 numbers of Gas Turbines. There are four numbers of Gas Booster Station to cater service for supply pressurized gas to the Gas Turbines. As per design philosophy, 3 GBS units are in running condition to run 6 numbers of Gas Turbines.

REASON FOR CARRYING OUT R&M OF 4TH GBS UNIT AND INCREASES OF COST:

A. **Replacement of Waukesha gas engine (4th GBS Unit):**

As per the approval of the CERC, the replacement of 3 (three) out of 4 (Four) numbers of Gas Engines & modification of Gas Compressors were completed within 2015-16. The projected approved figures of **Rs. 6153.36 lakhs** for additional capitalisation of 4 GBS units, which was allowed by CERC order dated 15.2.2016 in Petition No.41/GT/2015, was calculated based on past experience / budgetary estimates, and therefore, the final execution costs may vary. The actual cost incurred for replacement and modification of Gas Engines of 3 GBS units was **Rs.5097.00 Lakhs** and was completed during the year 2016-17. But, the projected additional capitalisation claimed and allowed by CERC vide order dated 15.02.2016 in petition no. 41/GT/2015 for 4th unit of GBS for Replacement of Gas Engine was **Rs. 1647.60 Lakhs** for the FY 2017-18. However, for the following reasons, the modification of 4th unit GBS could not be completed within 2017-18 and successfully completed during the FY 2019-20. The reasons were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. Considering the sufficient inventory levels of old Waukesha Gas Engines and Dresser Rand Gas Compressors, replacing the 4th unit in 2017-18 would have led to underutilized assets and inefficient use of capital. 3. Had all four units been replaced during the 2014-19 block, the capital cost of the 4th GBS unit would have been absorbed within the 2014-19 tariff period. However, by phasing

the replacement, the cost impact of the additional capital infusion for the 4th unit shifts to the 2019-24 tariff block. 4. The phased replacement approach allows us to stagger the expenditure, avoiding a significant upfront financial burden and increases of tariff on beneficiaries. This segmented approach distributes the costs over time, reducing the financial strain.

The PO & WO placed for modification of the 4th Gas Engine was placed in the year 2019 and job was successfully completed during the period 2019-20. The actual cost incurred for replacement of Waukesha Gas Engine and other auxiliaries for the 4th GBS unit was **Rs.1961.21 Lakhs.**

B. <u>Modification of Dresser Rand Gas Compressor (4th GBS Unit):</u>

As per the approval of the CERC, the replacement of 3 (three) out of 4 (Four) numbers of Gas Engines & modification of Gas Compressors were completed within 2015-16. The projected approved figures of **Rs. 3272.58 lakhs** for additional capitalisation of 4 GBS units, which was allowed by CERC order dated 15.2.2016 in Petition No.41/GT/2015, was calculated based on past experience / budgetary estimates, and therefore, the final execution costs may vary. The actual cost incurred for replacement and modification of Gas Compressors of 3 GBS units was **Rs.2735.21 Lakhs** and was completed during the year 2016-17. However, the projected additional capitalisation claimed and allowed by CERC vide order dated 15.02.2016 in petition no. 41/GT/2015 for modification of Gas Compressor was **Rs. 939.18 Lakhs** for the FY 2017-18. However, for the following reasons, the modification of 4th unit GBS could not be completed within 2017-18 and successfully completed during the FY 2019-20. The reasons were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. Considering the sufficient inventory levels of old Waukesha Gas Engines and Dresser Rand Gas Compressors, replacing the 4th unit in 2017-18 would have led to underutilized assets and inefficient use of capital. 3. Had all four units been replaced during the 2014-19 block, the capital cost of the 4th GBS unit would have been absorbed within the 2014-19 tariff period. However, by phasing the replacement, the cost impact of the additional capital infusion for the 4th unit shifts to the 2019-24 tariff block. 4. The phased replacement approach allows us to stagger the expenditure, avoiding a significant upfront financial burden and increases of tariff on beneficiaries. This segmented approach distributes the costs over time, reducing the financial strain.

The PO & WO placed for modification of the 4th Gas Compressor were placed in the year 2019 and job was successfully completed during the period 2019-20. The actual cost incurred for modification of Dresser Rand Gas Compressor was **Rs. 884.08 Lakhs.**

The additional cost with respect to the cost approved for the 4th unit during the period 2017-18 was due to escalation of price during that period.

In view of the above, honourable Commission is requested to allow the cost of replacement of Gas Engine and modification of compressor of 4th GBS unit as par actual expenditure basis.

PAHARPUR COOLING TOWERS LIMITED

Paharpur House, 8/1/B, Diamond Harbour Road, Kolkata - 700 027, INDIA
Ph: +91-33-40133000 • Fax: +91-33-40133499 • sales@paharpur.com • www.paharpur.com

Ref : 19-08-0121
Date : 20.11.2019

North Eastern Electric Power Corpn. Ltd.
Assam Gas Based Power Plant,
P.O: Bokuloni, Dist.: Dibrugarh.

Attn. : Mr. Anupam S Baruah – DGM (E/M)

Ref. : Your Inspection Order no. NEEPCO/AGBP/ST&AUX/W-33(A)-09/2019-20/146 dtd. 23.07.2019

Sub. : Inspection report of Cooling Tower model: 85442-3.0-08 Sl.# 93-2-0931.

Dear Sir,

Thank you very much for your kind courtesy extended to the undersigned during visit to your plant on 25.09.2019 to 26.09.2019 to inspect the subject cooling tower. We are pleased to furnish herewith our inspection report in Annexure-I for your kind perusal.

Thanking You

Yours Sincerely,
FOR PAHARPUR COOLING TOWERS LTD

B. K. Das
FEAP Marketing

Ref : 19-OB-0121
Date : 20.11.2019

North Eastern Electric Power Corpn. Ltd.
Assam Gas Based Power Plant,
P.O: Bokuloni, Dist.: Dibrugarh.

Inspection Report
Annexure-I

➢ Technical details of cooling towers:

Description	Cooling Tower model # 85442-3.0-08 Sl.# 93-2-0931
1. Structure of cooling tower	RCC
2. Gear Reducer	Spiral Bevel type Series 36 (Ratio 14.84:1) Part No.# 76-4399-1
3. Motor	MTR 100 HP 280S 4P 415V50HZ
4. Drive shaft	D/S 351 CLII 4335 GB2.5/8 MB75
5. Fan Assembly	10M HP-6-8 (P83-4006-1)
6. Distribution system	RCC main trough and PVC branch pipes fitted with spray nozzles
7. Distribution Nozzle	NS5A
8. Fill	PVC pack in single layer, Colour : Black
9. Drift Eliminators	ACB (Single wave type)
Design parameter:	
Design Water flow	19,500 CMH
Design Cold water temp	37 deg C
Design Hot water temp	27 deg C
Design Wet bulb temp	21.9 deg C

Contd.....P/2

Ref : 19-OB-0121
Date : 20.11.2019

North Eastern Electric Power Corpn. Ltd.
Assam Gas Based Power Plant,
P.O: Bokuloni, Dist.: Dibrugarh.

Inspection Report
Annexure-I

➢ Our observations:

Cooling tower is observed and inspected from outside as well as inside the cooling tower cell along with your concerned maintenance personnel. Our observation is as follows.

1 **PVC Fills:**

Fill packs are found in clogged and damaged condition in various locations inside the cells. In some locations, fill blocks got totally damaged and worn out showing holes all along the height of packs. Water is falling like thick channel instead of spraying. In some area, top surface of fill packs have been worn out. Please refer the photograph below.

Contd.....P/3

Ref : 19-08-0121
Date : 20.11.2019

North Eastern Electric Power Corpn. Ltd.
Assam Gas Based Power Plant,
P.O: Bokuloni, Dist.: Dibrugarh.

Inspection Report
Annexure-I

2. **Distribution system:**

It is observed that hot water spray nozzles are mostly in normal operating condition. In some locations, spray nozzles are found choked partially or fully and not fitted in proper way. PVC branch pipes are found generally in good conditions. However, some end caps of branch pipes are opened out from pipe causing improper distribution of hot water. Fittings of the branch pipes are mostly in good condition. One branch pipe was found fallen on the fills.

3. **Drift Eliminator:**

Existing ACB drift eliminator blades have found found broken in many places. Clogging due to algae was also observed. Spacers are also found in damaged condition in some areas.

Contd.....P/4

Ref : 19-08-0121
Date : 20.11.2019

North Eastern Electric Power Corpn. Ltd.
Assam Gas Based Power Plant,
P.O: Bokuloni, Dist.: Dibrugarh.

Inspection Report
Annexure-I

4. **Mechanical equipment:**

Mechanical equipment support, fan assembly, drive shaft assembly, gear reducer are found in normal operating condition. No vibration or abnormal sound is observed.

Components	Observation
Gear Reducer	Physically found in normal condition except oil leakages.
Fan assembly	Blades are in good condition. Center hub and blade holding hardware are in good condition.
Drive Shaft	Physically found in good condition except damages of NBM inserts.
Gear and motor foundation support (weldment)	Gear and motor weldments are in good condition.
Lube Oil line	Physically found in good condition.
Motor	Physically seen okay. Please have it checked by your electrical expert periodically.

Contd.....P/5

Ref : 19-0B-0121
Date : 20.11.2019

North Eastern Electric Power Corpn. Ltd.
Assam Gas Based Power Plant,
P.O: Bokuloni, Dist.: Dibrugarh.

Inspection Report
Annexure-I

➢ Our Recommendations:

1. 100% MC-67 type PVC fill pack need to replace for better cooling effect. (**Note: Extension of fill height is not possible as minimum gap required between fill top and tip of nozzle is already designed**)
2. 100% existing Asbestos drift eliminator blade to be upgraded with PVC single wave drift eliminator blades and PVC spacers for better airflow and longer life.
3. We are offering for **low weight, longer life "Carbon fibre drive shaft"** for easy maintenance and handling.
4. Based on the damages and safety purpose, we are considering some distribution system component for replacement during revamping for better spraying of water throughout the fill area.
5. Some oil seal are considered for maintenance purpose.

Based on our above observation, our offer # **19E1S0239/BKD** dated 20.11.2019 for necessary repairing/servicing of your cooling tower is enclosed herewith.

Thanking You,

Yours faithfully
for **Paharpur Cooling Towers Ltd.**

B.K.Das.
FEAP Marketing

Enclo: 1. Proposal # 19E1S0239/BKD dated 20.11.2019
2. Sales Pamphlet for Sr.604 Carbon Fibre Drive shaft.

No. NEEPCO/AGBP/HOP/2013-14/W–8(A)/ *205* Dated *28/05/2013*

To

M/S Mitsubishi Corporation,
Power Systems Export Unit,
Power and Electrical Systems Division,
3-1, Marunouchi, 2-Chome, Chiyoda-Ku,
Tokyo – 100-8086, Japan.
(Fax No. 011 – 4368 2333)

Sub: NEEPCO/AGBP – Purchase order for procurement of new GT Rotor and Work Order for Compressor Rotor Refurbishment (CRR) & Comprehensive Rotor Inspection (CRI) of MHI make Gas Turbine # 1 to 4 (Model No. MW251B)

Ref:
1. MHI document No. ME-100434 (R1) Dated November 2010
2. MC Offer No. MPB/XA-F-YOKAS-D-829W364 Dated 02/02/2011.
3. MC letter No. MPB/XA-F-YOKAS-D-8296462 & 829W364 Dated 25/03/2011
4. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/27 Dated 30/05/2011
5. MC letter No. MPB/XA-F-YOKAS-D-829W364-3 Dated 16/06 /2011
6. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/151 Dated 26/07/2011
7. MC letter No. MPB/XA-F-YOKAS-D-829W364-5 Dated 04/08/2011
8. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/152 Dated 12/08/2011
9. MC letter No. MPB/XA-F-YOKAS-D-829W364-6 Dated 05/09/2011
10. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/174 Dated 21/09/2011
11. Our letter No. NEEPCO/AGBO/GT&AUX/W-23/2011-12/194 Dated 19/10/2011
12. MC letter No. MPB/XA-F-YOKAS-D-829W364-7 Dated 25/10/2011
13. Our letter No. NEEPCO/AGBP/GT&AUX/W-23/2011-12/210 Dated 15/11/2011
14. MC letter No. MPB/XA-F-YOKAS-D-829W364-9 Dated 02/12/2011
15. MC letter No. MPB/XA-F-YOKAS-D-829W364-10 Dated 28/12/2011
16. Our letter No. NEEPCO/AGBP/GT&AUX/W-23/2011-12/309 Dated 30/03/2012
17. MC letter No. ENY/XA-F-YOKAS-D-829W364-11 Dated 20/04/2012
18. Our letter No. NEEPCO/AGBP/GT&AUX/W-23/2012-13/59 Dated 22/06/2012
19. MC letter No. ENY/XA-F-YOKAS-D-829W364-12 Dated 09/08/2012
20. MOM held between MC and NEEPCO Ltd., Dated 06/09/2012
21. Your letter No. ENY/XA-F-YOKAS-D-829W364-14 Dated 26/09/2012
22. Your letter No. ENY/XA-F-YOKAS-D-829W364-13 Dated 27/09/2012
23. Your letter No. ENY/XA-F-YOKAS-D-829W364-15 Dated 18/10/2012
24. Your letter No. ENY/XA-F-YOKAS-D-829W364-16 Dated 21/12/2012
25. Our letter No. NEEPCO/ED(O&M)/AGBP-01/1474 Dated 10/01/2013
26. Your letter No. ENY/XA-F-YOKAS-D-829W364-17 Dated 15/01/2013
27. Our letter No. NEEPCO/ED(O&M)/AGBP-01/1517 Dated 21/01/2013
28. Your letter No. ENY/XA-F-YOKAS-D-829W364-18 Dated 22/01/2013
29. MOM held between MC and NEEPCO Ltd., Dated 24/01/2013
30. Our letter No. NEEPCO/AGBP/HOP/2013-14/W-8(A)/49 Dated 11/04/2013
31. Your letter No. ENY/XA-F-YOKAS-D-829W364-20 Dated 11/04/2013
32. Our letter No. NEEPCO/AGBP/HOP/2011-12/W-8(A)/55 Dated 19/04/2013

33. Your letter No. ENY/XA-F-YOKAS-D-829W364-Integrity Pact Dated 25/04/2013
33. Our LOI issued vide No. NEEPCO/AGBP/HOP/2011-12/W-8(A)/65 Dated 26/04/2013
34. Your acceptance letter No. ENY/XAF-YOKAS-D-829W364-LOI Dated 09/05/2013

Dear Sirs,

With the above reference, the Corporation is pleased to place this Purchase Order for supply of new GT Rotor and Work Order for Compressor Rotor refurbishment & comprehensive Rotor Inspection of 3 units of MHI make Gas Turbine as per following terms & conditions:

Terms & Conditions:

1. **Scope:** The scope shall include
   a) Supply of new GT Rotor with compressor blades, turbine blade (assembled condition) and disc (MGA10D) for MHI make Gas Turbine Model No. MW251B as per the Schedule of Item and Prices (Annexure-I) enclosed along with this order on **FCA or FOB, Japan** basis. The new GT Rotor will be supplied after High Speed Balance Test
   b) Compressor Rotor Refurbishment and Comprehensive Rotor Inspection for 3 (three) units of MHI make Gas Turbine Model No. MW251B as per the Schedule of Item and Prices (Annexure-I) enclosed along with this order on **FCA or FOB, Japan** basis

2. **Engineering Kick off Meeting:** An Engineering Kick off Meeting shall be held at site upon acceptance of this purchase order/work order for discussion on detail scope of supply and works and firming up detail schedule of delivery, schedule of Letter of Credits and schedule of submission of BGs and other techno-commercial issues.

3. **Prices:** The total price payable to MHI/MC is **JPY 1,033,391,400** (Japanese Yen one billion thirty three million three ninety one thousand four hundred) only for supply of new Gas Turbine Rotor alongwith container, CRR & CRI of 3 Gas Turbine units at Takasago, Japan and supply of necessary spare parts for CRR & CRI (Schedule of Items & Prices at Annexure-I). The prices will remain firm till completion of supply and completion of works. The prices are including packing and forwarding but excluding freight, insurance and any tax, duty or levy that may be imposed in India, which, if applicable, shall be paid by NEEPCO at actual. Freight charges will be paid by NEEPCO at actual in Indian Rupees at the time of delivery of the rotor at Indian Port directly to the carrier against raising of bills. All taxes, charges, duties etc. leviable outside India shall be to your account only. No agency commission is payable by us.

4. **Terms of Payment:**
   100% contract price shall be made in Japanese Yen by an irrevocable, confirmed and non restricted Letter of Credit to be established for the full amount in favour of Mitsubishi Corporation, Tokyo, (ATTN: MPB/XA-F) confirmed by a first class bank in Japan or Europe or USA, acceptable to Mitsubishi Corporation and payable at sight draft to be opened in favour of Mitsubishi Corporation, Tokyo against presentation of shipping

documents and with sufficient validity to cover contractual time of shipment plus 21 days for negotiation but within validity of L/C. Any amendment charges which will be required due to the reason not attributable to seller shall be borne by buyer. Total 4(four) Nos. of LCs will be opened as detailed below:

a) 1st LC for supply of Spare GT Rotor shall be opened after submission of 1st Bank Guarantee for supply of Spare GT Rotor.
b) 2nd LC for 1st CRI shall be opened prior to 6 (six) months of dispatch of rotor from site and after submission of 2nd Bank Guarantee to facilitate manufacturing of compressor shaft in advance.
c) 3rd LC for 2nd CRI shall be opened prior to six months of dispatch of rotor from site and after submission of 3rd Bank Guarantee to facilitate manufacturing of compressor shaft in advance.
d) 4th LC for 3rd CRI shall be opened prior to six months of dispatch of rotor from site and after submission of 4th Bank Guarantee to facilitate manufacturing of compressor shaft in advance.

5. **Insurance:**
Insurance for supply of spare rotor during transit to cover transit risks from Japanese port of origin to NEEPCO's warehouse at AGBP site shall be covered under NEEPCO's **open marine policy No. 200404/21/12/4200000014 with National Insurance Company Limited, Ginoria Mansion, Chirwapatty Road, Tinsukia, Assam, PIN - 786125, (Fax No. 0374 – 2337191; Phone No. 0374 – 2331230).** NEEPCO shall settle any claim directly with the underwriters. A copy of the insurance policy shall be provided to Mitsubishi Corporation for arranging shipment upto Kolkata. Supplier should give prior intimation in writing to the above mentioned underwriters as well as the consignee the exact date of shipment of the materials to ensure insurance coverage against transit risks.

6. **Delivery Period:**
a) Shipment of spare rotor shall be made within 13 (thirteen) months from the date of receipt of order or opening of relative irrevocable Letter of Credit acceptable to Mitsubishi Corporation whichever is later.
b) Shipment of CRI Rotor shall be made within 17.5 (seventeen and half) months from the date of receipt of materials at Takasago Machinery Works, Japan.

7. **Inspection:**
The new Gas Turbine Rotor shall be high speed balance tested at manufacturer's works in accordance with relevant standard prior to shipment. Notice shall be given for deputation of NEEPCO's authorized representative(s) to witness the test at manufacturer's works. NEEPCO reserves the right to depute authorized representative to witness the test or may waive witnessing of the test. In the event of waival, manufacturer's test report prior to shipment shall be final. However, all responsibility for fulfilling the technical requirement shall lie with the contractor till expiry of warranty period, even if testing is witnessed by NEEPCO's representative. The same condition shall be applicable for CRR & CRI also.

8. **Packing:**
Manufacturer's standard export packing shall be applied.

9. **Port of Destination:**
Kolkata port.

10. **Transportation:**

a) **Supply of Spare GT Rotor:** Inland transportation from Kolkata Port to the Plant Site including port clearance shall be responsibilities of NEEPCO. The Corporation will pay freight charges in Indian Rupees.

b) **CRI & CRR:** The responsibility of transportation of old GT Rotor from Assam Gas Based Power Plant (India) to Kobe (Japan) is on NEEPCO. The responsibility of transportation of the same from Kobe (Japan) to Takasago (Japan) shall be on MC. Entry/Exit point is Kobe port. Same term shall be applicable for return journey from Takasago, Japan.

11. **Custom Clearance in India:**
The responsibility of custom clearance shall lie with NEEPCO. The "Coordinator, NEEPCO, Kolkata" shall take all necessary action towards arranging custom clearance expeditiously so that no demurrage charge is involved. Custom Clearance of old GT Rotor for CRI & CRR at Kobe, Japan will be done by MC.

12. **Security-cum-Performance Guarantee:**
Within 30(thirty) days from the date of issue of purchase order, the supplier shall furnish bank guarantee from a scheduled nationalized bank for an amount equivalent to 10% (ten percent) of the contract value towards faithful performance of the contract. The Bank Guarantee shall be valid for a period to cover 90(ninety) days after expiry of warranty period. The schedule of submission of BG shall be as mentioned in **"Terms of Payment"** at Sl. No. 4 above. Bank charges for processing of BG will be borne by supplier.

13. **Warranty Period:**
The contractor warrants that goods supplied in accordance with this contract shall be free from defects in design, material and workmanship (excluding defects caused by normal wear and tear) for the period until the earlier of; a) 12 (twelve) months after the installation of the goods; and b) 9,000 EOH from the installation of the spare rotor into the gas turbine subject to the owners recording EOH as per O&M manual, and c) 18 (eighteen) months from the date of delivery at the relevant spare rotor to FPB Repair Facility's port of export (within the meaning of INCOTERMS 2000).

Any defects observed in the goods supplied shall be informed to contractor within 7(seven) days and contractor shall repair or replace the part. Repaired goods shall be further warranted for the same period as original warrantee.

14. **Buy Back of Rotor:** Cost of Buy back of old compressor rotors shall be adjusted and discounted from each CRI&CRR price @ 800,000 JPY as per Annexure I.

15. **Limitation of Liability and Indemnity:**

a) Indirect, Incidental and Collateral Loss or Damage

In no event, whether as a result of breach of the contract, warranty, indemnity, tort (including negligence), Strict liability, or otherwise, shall the Contractor be liable to the owner for loss of profit or revenues; loss of business; loss of use of the Facility including, but not limited to, any associated equipment; cost of capital; cost of substitute equipment, facilities, services or replacement power; downtime costs; costs of collateral or downstream damage, howsoever caused; incidental expenses, including the costs of opening and closing the Gas Turbine, Transportation costs, incurred for whatever reason; claims of the owner's customers for such damages; or for any special, consequential, incidental, indirect, punitive or exemplary damages.

b) Maximum Liability

The aggregate liability of the Contractor under or in connection with this contract, on all claims of any kind, whether in contract, warranty, indemnity, tort (including negligence), Strict liability, errors or omission or otherwise, arising out of the supply of any goods or services supplied, shall be 100% of the amount equal to Contract price.

16. **Liquidated Damage:**

In case the supplier fails to deliver the materials within contractual delivery period due to reasons attributable to the supplier, then the Corporation reserve the right to recover from the supplier's sum towards Liquidated Damage @ ½ % (half percent) value of the undelivered portion of the supply for each calendar week or part thereof delay from the schedule delivery date (or extension thereof). The total recovery from the supplier on account of this shall, however, not exceed 10% (ten percent) of the value of the undelivered portion of supply. However, the Liquidated Damage will not be imposed if the supplier fails to deliver the materials within the scheduled delivery period due to Force Majeure conditions, which shall include without limitation, wars, insurrection, civil war, disobedience, strikes, riots, epidemics, earthquake, storms, floods, explosion or fire not caused by the supplier's negligence, lightning, acts of God or the public enemy which is of such a nature as to delay, curtail or prevent timely action by either party.

17. **Place of Arbitration:** Shillong, Meghalaya, India

18. **Rejection of Defective Materials:**

If the materials are found defective at the time of receipt, the same shall be rejected and the supplier shall replace the same at their own cost. Transportation cost for the replacement of the materials will be borne by the supplier.

19. **Consignee:**

The materials shall be received by the Coordinator, Kolkata, NEEPCO, DS-1, Maniktola Civic Centre, 1/16,VIP Road, CIT Scheme No. VII M, P.O.: Kankurgachi, Kolkata-700 054 who will thereafter forward the same to the ultimate consignee as detailed below:

The Senior Manager (E/M) Material Management Wing
Assam Gas Based Power Plant, NEEPCO,
P.O. Bokuloni, District: Dibrugarh, Assam.
PIN: - 786191

20. Shipping Document:

Shipping documents shall include:

a) Mitsubishi Corporation's Invoice
b) Packing list
c) Proof of shipment
d) Certificate of Origin

Copies of shipping documents shall be forwarded in advance to the ordering authority with copies to:

a) The "Coordinator, Kolkata", NEEPCO, DS-I, Maniktola, 1/16, VIP Road, CIT Scheme No. VII M, P.O. Kankurgachi, Kolkata – 700 054
b) The Head Of Project, Assam Gas Based Power Plant, NEEPCO Ltd., Bokuloni, Dist – Dibrugarh, Assam, PIN: 786 191
c) The Deputy General Manager (F) CT, NEEPCO Ltd., Shillong – 793 003
d) The ultimate consignee as mentioned above under clause No. 19.

21. Address for correspondence:

All correspondences in respect of this order shall be made with –
The General Manager &
Head of Project,
Assam Gas Based Power Plant, NEEPCO Ltd.,
P. O. Bokuloni Chariali,
Dist. Dibrugarh, Assam, PIN – 786191.
(Fax No. 0374-2825217/2825349)

Kindly acknowledge receipt of this Purchase order and convey your acceptance.
Thanking you, .

Encl: As stated above

Yours faithfully,

(H. K. Deka),
GM & Head of Project,
AGBP, NEEPCO Ltd.

NIO
Memo No. NEEPCO/AGBP/ HOP/2013-14/W-8(A)/ 206-213, Dated 28/05/2013
Copy to:

1. The Director (Tech.), NEEPCO Ltd., Shillong, for kind perusal. This has reference to CMD's approval Dated 14/02/2013.
2. The Executive Director (O&M), NEEPCO Ltd., Shillong, for kind perusal.
3. The DGM (F) CT, NEEPCO Ltd., Shillong – for information please.
4. The DGM (E/M), AGBP, NEEPCO Ltd., Bokuloni, please
5. The Sr. Manager (E/M), GT&AD, AGBP, NEEPCO Ltd., Bokuloni, please
6. The Sr. Manager (E/M), MMW, AGBP, NEEPCO Ltd., Bokuloni, for information please.
7. The Manager (F), F&A Wing, AGBP, NEEPCO Ltd., Bokuloni, for information please. Enclosed a copy of the approval.
8. The Dy. Manager (Vigilance), AGBP, NEEPCO Ltd., Bokuloni, for information please.

28.5.2013

GM & Head of Project,
AGBP, NEEPCO Ltd.

Annexu

P. O. No. NEEPCO/AGBP/HOP/W-8(A)/2013-14/205, Dt. 28/05/2013

SCHEDULE OF ITEMS & PRICES

Sl. No.	Description of Items	Qty	Unit Rate (JPY)	Total Amount (JPY)
1	New GT Rotor (Scope of supply & Technical Specification at Annexure-II & III)	1	430,000,000	430,000,000
2	Container	1	5,459,000	5,459,000
3	CRR & CRI of MHI make Gas Turbine with newly manufactured Compressor Rotor with upgraded MGA10D material (Scope is as per Technical Proposal ME101968)*	3	181,503,000	544,509,000
4	Necessary Spares parts (Detail list of spares at Annexure-III)	3	17,807,800	53,423,400
	Total			**1,033,391,400**

(Japanese Yen one billion thirty three million three ninety one thousand four hundred only)

*Note:

Original proposed price	JPY 182,303,000
Less discount as Buy Back of Old Compressor Rotor	JPY 800,000
Current Price after discount	JPY 181,503,000

Annexure-II

P. O. No. NEEPCO/AGBP/HOP/W-8(A)/2013-14/205, Dt.28/05/2013

SCOPE OF SUPPLY

(Technical Proposal ME-110029)

1. **Scope of Supply:**
   M251B8 Gas Turbine rotor
   With:
   - Compressor blades
   - All of associated parts for compressor (Spring, Pin)
   - Turbine blades (assembled)
   - All of associated parts of turbine blades (seal pin, seal plate, etc)
   - Container
   - Weight (without blades) : 15 ton

P. O. No. NEEPCO/AGBP/HOP/W-8(A)/2013-14/205, Dt.28/05/2013

TECHNICAL SPECIFICATION OF NEW GT ROTOR

(Technical Proposal ME-110029)

Compressor Portion: 18 rows and shrink fitted rotor

Turbine Portion: 3 rows and bolted rotor

Table – 1 Rotor main components

Item No.	Parts	Qty	Material	Remarks
1	Compressor main shaft	1	10325GP	
2	Disc compressor # 1 - # 12	Each 1	10325PA	
3	Disc compressor # 13 - # 15	Each 1	MGA10D	Upgraded from 10325PA
4	Disc compressor # 16 - # 18	Each 1	MGA10D	Upgraded from 10725HJ
5	Spacer ring	5	10325DL	
6	Air separator	1	10325TG	
7	Torque tube	1	10325TG	
8	Coupling bolt	46	IN-718	Upgraded from IN-X750
9	Nut coupling bolt	46	10325DU	
10	Disc turbine row # 1	1	10325TG	
11	Bolt special	40	IN-718	Upgraded from IN-X750
12	Nut self lock	40	10305DU	
13	Side plate	1	10325TG	
14	Disc turbine row # 2	1	10325TG	
15	Disc turbine row # 3	1	10325TG	
16	Spindle bolt	10	IN-718	Upgraded from IN-X750
17	Washer spindle	10	SUS310S	
18	Hex nut	20	10305DU	
19	Baffle half turbine disc row #2 (between row 1 & 2)	2	Hastelloy X	
20	Baffle half turbine disc row # 3 (between row 2 & 3)	2	Hastelloy X	

P. O. No. NEEPCO/AGBP/HOP/W-8(A)/2013-14/205, Dt.28/05/2013

TECHNICAL SPECIFICATION OF NEW GT ROTOR

(Technical Proposal ME-110029)

Table – 2 Compressor blades and associated parts which are supplied with the Rotor

Item No.	Parts	Qty
1	Compressor blade row #1	30
2	Compressor blade row #2	30
3	Compressor blade row #3	39
4	Compressor blade row #4	45
5	Compressor blade row # 5	45
6	Compressor blade row # 6	45
7	Compressor blade row # 7	45
8	Compressor blade row # 8	45
9	Compressor blade row # 9	45
10	Compressor blade row # 10	81
11	Compressor blade row # 11	81
12	Compressor blade row # 12	81
13	Compressor blade row # 13	81
14	Compressor blade row # 14	81
15	Compressor blade row # 15	81
16	Compressor blade row # 16	81
17	Compressor blade row # 17	81
18	Compressor blade row # 18	81
19	Pin blade	1098
20	Spring blade	1098
21	Balance plug	Q'ty req.

2. Documentation to be supplied

- Inspection and test plan for rotor.
- Inspection and test results.
- Momentum weight and assembly chart for blades.

Annexure E

Name of the Company: NORTH EASTERN ELECTRIC POWER CORPORATION LTD
Name of the Power Station: Assam Gas Based Power Station (291 MW)
(hereinafter referred to as AGBPS)

Funding of Additional Capital Expenditure incurred during the period of 2019-24

No new loan/external funding taken and proposed to be taken for the Assam Gas Based Power Station (291 MW) (hereinafter referred to as AGBPS) during the period under reference. The additional capital expenditure incurred during the period of 2019-24 has been met from the internal resources of the Company.

24/10/24

(Ripunjoy Bhuyan)
CGM(Tech), NEEPCO-Commercial

महाप्रबंधक (वि.)
General Manager (FL)
कार्यालय निदेशक (वाणिज्यिक) का कार्यालय
O/o The Executive Director (Comml)
नेहपको लि., शिलांग
NEEPCO Ltd. Shillong

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner: NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station: Assam Gas Based Power Station
COD: 01.04.1989
For Financial Year: FY 2024-25

(Amount in lacs)

Sl.No	Head of Work/Equipment	ACE Claimed (Actual/Projected)				Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis(in lacs)	Un-discharged Liability included in col.3		Cash basis	IDC Included in col.3		
1	2	3	4		(5=3-4)	6	7	8	9
1	CDR & CR of rotor of MHI GTG Unit # 2 (To be installed at GT Unit # 1)	2,527.42	0		0	0	25(2-d)	As per recommendation of O&M, M/s MHI, Japan, comprehensive inspection of turbine rotor and refurbishment of compresser rotor of Gas Turbine is necessary to obtain the desired output of the turbine after 1 lakh final hours. This will enhance the life of the GT.	
2	Turbine Blade Ring & Torque Tube cover of MHI GTG Unit # 1	1,198.00	0		0	0	25(2-d)	Cracks and abrasion were observed in Turbine Blade Ring and Torque Tube cover. Wall reduction was also observed in many places of the Turbine Blade Ring and Torque Tube cover due to high temperature oxidation. Moreover, due to long and sustained operation of the Gas Turbines at varied load, permanent deformation has occurred in the Turbine Blade Ring of the unit. Due to this, loss occurs owing to uneven clearance between moving blades and baffle segments. To rectify these, we propose to replace the Turbine Blade Ring and Torque Tube cover	
3	Turbine Blade Ring & Torque Tube cover of MHI GTG Unit # 4	867.00	0		0	0	25(2-d)	Cracks and abrasion were observed in Turbine Blade Ring and Torque Tube cover. Wall reduction was also observed in many places of the Turbine Blade Ring and Torque Tube cover due to high temperature oxidation. Moreover, due to long and sustained operation of the Gas Turbines at varied load, permanent deformation has occurred in the Turbine Blade Ring of the unit. Due to this, loss occurs owing to uneven clearance between moving blades and baffle segments. To rectify these, we propose to replace the Turbine Blade Ring and Torque Tube cover	
4	Replacement of 2 numbers of ACW pumps for replacement for life enhancement	57.50	0		0	0	25(2-d)	There are 04 numbers of ACW pumps installed and commashed in the year 1998. Existing pumps may fail due to ageing. Intended to purchase 02 nos of ACW pump for redundant operation of steam turbine unit.	
5	Replacement of Boiler feed pump FRH 27	602.94	0.00		0	0	25(2-d)	Each steam turbine units are comprising of 02 numbers of Boiler feed pumps to feed water to boilers. Boiler feed pumps were installed and commissioned in the year 1998 by M/S BHEL. For redudant and efficient operation, it is intended to purchase 02 numbers of modified Boiler feed pump directly from the OEM for one to one replacement.	
6	Replacement of Main lube oil cooler (2 numbers)	304.99	0.00		0	0	25(2-d)	Main lube oil coolers of steam turbine units were fouled badly. It is intended to purchase 02 numbers of cooler for the installation. The taken out coolers shall be repaired/reinvented for further use.	

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7	Retrofitting of static relays by numerical relays (MELCO, STG Unit # 1)	436.02	0		0	0	25(2-d)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Dispatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for Life extension has already submitted.	
8	Replacement of 24V and 220V DC ARCOSET make battery charger (obsolete) with new upgraded charger – 12 (twelve) sets	229.22	0		0	0	25 (2-C)	1) The old 24V/220V DC Battery Charger for STG Control System has completed normal life periods. 2) As per CEA guidelines issued vide no: 2/8/Misc./TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life LE works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive LE works for Life Extension. Accordingly, it is necessary for replacement for reliable operation of protection system	
9	Major overhauling / servicing of M/S MITSUBISHI make generator and exciter (STG Unit # 1).	280.19	0		0	0	25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S MELCO make generator and exciter needs to carry out within 8-10 year to enhance the life of equipment	
10	Procurement of Overhauling / Servicing spares for M/S BHEL make Generator and Exciter (Unit # 6)	103.49					25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S BHEL make generator and exciter needs to carry out within 8-10 year to enhance the life of equipment	
11	Major overhauling / servicing of M/S BHEL make generator and exciter (Unit # 5)	97.68					25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S BHEL make generator and exciter needs to carry out within 8-10 year to enhance the life of equipment	
12	Retrofitting, testing and commissioning of CVTs, Bus PT	74.47					25(2-d)	1) To comply CEA guidelines as well as instruction of NERPC, 2) As per CEA guidelines issued vide no: 2/8/Misc./TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life LE works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive LE works for Life Extension. Accordingly, it is necessary for replacement for reliable operation of protection system.	
13	Retrofitting, Testing and Commissioning of Lightening Arrestor (LA)	70.52					25(2-d)	1) Recommendation of RLD for replacement of surge monitor. 2) As per CEA guidelines issued vide no: 2/8/Misc./TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life LE works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive LE works for Life Extension. Accordingly, it is necessary for replacement for reliable operation of protection system.	
14	Retrofitting, testing and commissioning of 245 kV HCB Isolator	338.71					25(2-d)	1) As per CEA guidelines issued vide no: 2/2/Misc./TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life LE works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive LE works for Life Extension. Accordingly, it is necessary for replacement for reliable operation of system.	

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15	Governor with DDC/Pro Control System of Module-2 & 3	2,009.97					25(2-c)	System has completed more than 25-years and OEM support for supply of spares are not available. Electro-hydraulic operation of the governor is not in working condition for last few years as new spares are not available.	
16	Upgradation of SWR-system of Module-2	304.87					25(2-d)	Old system is not in working condition due to severe blockage in sample lines and transmitters. Transmitters are old type and spare support is not available.	
17	Upgradation of Governor GTG # 1 & 2	38.46					25(2-c)	System has completed more than 25-years. Existing valves, positioner of the system are not functioning properly. Life extension of the system for 15-years can be achieved.	
18	Upgradation of Governor GTG # 5 & 6	78.83					25(2-c)	System has completed more than 25-years. Hydraulic leakage from the system is observed. Life extension of the system for 15-years can be achieved.	
19	Reconfiguration / modification of control system of Gas Turbines for AGC (Automatic Generation Control) for GTG # 1-4	102.37					25(2-b)	Controller modification work of GTG#1 to 4 is being carried out in compliance to CERC norms for implementation of AGC.	
20	Reconfiguration / modification of control system of Gas Turbines for AGC (Automatic Generation Control) for GTG # 5-6	102.07					25(2-b)	Controller modification work of GTG# 5 & 6 is being carried out in compliance to CERC norms for implementation of AGC.	
21	Implementation of Automatic Generation Control (AGC) system	77.16					25(2-b)	CERC norms for implementation of AGC above 200 MW power station.	
22	Replacement of Emergency Diesel Engine of Fire Fighting Pump House	21.48					25(2-c)	OEM of Emergency Diesel Engine i.e. CUMMIN India Ltd has declared that said model of the engine is already obsolete and manufacturer has already stopped production of spares hence in future they can not provide spares any more.	
23	Replacement of Emergency Diesel Engine of Fire Fighting Pump House	15.84					25(2-d)	Pumps of the emergency Diesel Engine of fire fighting system are originally supplied by M/S Motter & Platt Ltd and the existence of the company is not found, hence no support from OEM is so far received. Presently Kirloskar make spares are being used if required. Giving the risk of Kirloskar team, it is suggested that since the life of these pumps are already exceed 25 years, hence are to one replacement of pump without changing present structure will be economically beneficial than going for complete overhauling of these pumps.	
24	LT & automation of fire fighting system	98.85					25(2-d)	High & medium velocity Water spray system provided at Transformer yard, Cable galleries, Oil tanks of STG are presently running in partly auto mode. However, Fire pumps are running in manual mode. So to keep the whole system in auto functioning mode which is also a statutory requirement, the proposal is put up.	

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25	LE work for steam turbine building	179.99					25(2-d)	During 2019, Consultancy Wing, NTPC Ltd., recommended for RLA Test of Civil Structures and Foundations , since, the said Civil Structures & Foundations already completed more than 20 (Twenty) years. Accordingly, RLA Test for ST Building was carried out through Jadavpur University, Kolkata and they have suggested for doing some Major critical repair of ST Building , since, the overall structure of ST building is not in healthy condition. As such, as suggested / recommended by the Jadavpur University, Kolkata, the Renovation works of ST Building is going on for future sustainability of the structures of ST building.	
26	LE work of Cooling Towers at AGBPS	54.15					25(2-d)	During 2019, Consultancy Wing, NTPC Ltd., recommended for RLA Test of Civil Structures and Foundations at Plant area of AGBPS, since, the said Civil Structures & Foundations already completed more than 20 (Twenty) years. Accordingly, RLA Test for Cooling Tower was carried out through Jadavpur University, Kolkata. They have suggested for doing Major Repair and re-strengthening of the structures of Cooling Tower with proper repair methodology. As such, as suggested / recommended by the Jadavpur University, Kolkata, Renovation works of Cooling Tower is going on for future sustainability of the structures of Cooling Tower.	
27	Installation of additional 2010 / 1250 KVA Black Start EDG for the plant	188.18					25(2-d)	The existing 350 KVA Black Start EDG has already completed 25 years of operation. The Black start EDG is one of the vital & integral equipment to cater emergency power during any black out condition.	
	Total (A)	10,267.23	0		0	0			
								Major Spares	
1	Major Spares Capitalization	1,609.72	0		0	0	0		
	Total (B)	1,609.72	0		0	0	0		
								Items under Exploration	
1	NIL ITEM	0	0		0	0	0		
	Total (C)	0	0		0	0	0		
	Grand Total (A+B+C)	11,876.95	0		0	0	0		

Note: 1. The DPR for LE of AGBPS has already submitted after due approval of competent authority.
2. The above Add Cap works are as per the DPR for LE of AGBPS

Name of the Petitioner	North Eastern Electric Power Corporation Ltd
Name of the Generating Station	Assam Gas Based Power Plant
COD	01.05.05 to 01.04.1999
For Financial Year	2025-26

Sl	Head of Work/Equipment	ACE Claimed (Actual/Projected)				Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis (Rs in lakh)	Un-discharged Liability included in (4) (Rs in lakh) col.3	Cash basis	IDC included in col.3			
1	2	3	4	(5=3-4)	6	7	8.0	9
1	New Starting Diesel Engine for BHEL Gas Turbine Unit # 1	95.82	0.00	0	0	25(2-d)	No spare Starting Diesel Engine for BHEL Gas Turbine Unit is available in our stock and Starting Diesel Engine for BHEL Gas Turbine Unit # 6 is in service since commissioning.	
2	LE of Cooling Tower- Replacement of Drive mechanism of Cooling tower(4 Set of Drive mechanism)	28.01	0.00	0	0	25(2-d)	Required for replacement for life extension.	
3	Retrofitting of static relays by numerical relays (MELCO, GTG Unit# 2)	406.00	0.00	0	0	25(2-d)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MYT/T/01/2010 dtd. 20/8/2010 under clause No. 43(3), all protection relay shall be numerical type and communication protocol shall be as per IEC 61850/relevant standards. 4) More over "All operational data, including data logger recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentary evidence for life extension has already submitted.	
4	Major overhauling / servicing of M/S MELCO/BHEL make generator and exciter (GTG Unit # 3)	180.18	0.00	0	0	25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S MELCO make generator and exciter needs to carry out within 8-10 years to enhance the life of equipment	
	Retrofitting, testing and commissioning of 245 KV HCB isolator	169.70	0.00	0	0	25(2-d)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015, units above 15 years old qualify for Mid Life LE works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive LE work for life extension. Accordingly, it is necessary for replacement for reliable operation of system. Cost for the FY 2026-27, 2027-28 etc.	
5	Upgradation of SWA system of Module-3	200.00	0.00	0	0	25(2-d)	Old system is not in working condition due to severe blockage in sample lines and transmitters. Transmitters are old type and spare support is not available.	
6	Upgradation of Governor GTG # 3 & 4	88.87	0.00	0	0	25(2-d)	System has completed more than 25-years. Existing valves, positioner of the system are not functioning properly. Life extension of the system for 15-years can be achieved.	
7	LE of Clarified water storage Tank	202.46	0.00	0	0	25(2-d)	During 2018, Consultancy Wing, NTPC recommended for doing NLA Test of Civil Structures and Foundations, since, the said Civil Structures & Foundations already completed more than 20 (Twenty) years. Accordingly, NLA Test for Clarified Water Storage Tank was carried out through Jadavpur University, Kolkata. They have suggested for Major Repair and restrengthening the structure of Clarified Water Storage Tank with proper repair methodology, since, the overall structure is not in good condition. As such, as suggested / recommended by the Jadavpur University, Kolkata, it is proposed to carry out the Renovation works of Clarified Water Storage Tank during 2025-26 by lending a corridor for future sustainability of the structures of Clarified Water Storage Tank.	
	Total (A)	1,486.09	0	0	0			
						Major Spares		
1	Major Spares Capitalization	1,690.21	0	0	0			
	Total (B)	1,690.21	0	0	0			
						Items under Exclusion		
1	Severance of Residential Building		0	0	0			
2	Severance of Plant Area Periphery Road		0	0	0			
	Total (C)	0	0	0	0			
	Grand Total (A+B+C)	3,176.29	0.00	0.00	0.00			

Note: 1. The DPR for LE of AGBPS has already submitted after due approval of competent authority.
2. The above Add Cap works are as per the DPR for LE of AGBPS

Name of the Petitioner: North Eastern Electric Power Corporation Ltd
Name of the Generating Station: Assam Gas Based Power Plant
COD: 01.04.1999
For Financial Year: 2026-27

All figs are in Rs lakh

Sl.No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis (Rs in lakh)	Un-discharged Liability included in(Rs in lakh) col.3	Cash basis				
1	2	3	4	(5=3-4)	6	7	8.0	9
1	Turbine Blade Ring & Torque Tube cover of MHI GTG Unit # 3	864.15	0	0	0	25(2-d)	Cracks and abrasion were observed in Turbine Blade Ring and Torque Tube cover. Wall reduction was also observed in many places of the Turbine Blade Ring and Torque Tube cover due to high temperature oxidation. Moreover, due to long and sustained operation of the Gas Turbines at varied load, permanent deformation has occurred in the Turbine Blade Ring of the unit. Due to this, loss occurs owing to uneven clearance between moving blades and baffle segments. To rectify these, we propose to replace the Turbine Blade Ring and Torque Tube cover.	
2	Exhaust cylinder & exhaust manifold of MHI GTG Unit # 3	2,524.60	0	0	0	25(2-d)	Cracks and abrasion were observed in Exhaust cylinder & exhaust manifold. Wall reduction was also observed in many places of the Exhaust cylinder & exhaust manifold. Due to crack hot gas leakage was observed from many places.	
3	Rotor refurbishment of Steam Turbine-2	470.81	0	0	0	25(2-d)	Taken out rotor of Steam turbine unit-1 shall be refurbished at BHEL Hyderabad which shall be used in Steam Turbine Unit-2 as part of majoroverhauling and LE.	
4	Replacement of generator coolers (1 unit)	190.03	0	0	0	25(2-d)	Generator coolers are fouled badly for which heat exchage capacity is being reduced. Intended to purchase one set for replacement.	
5	Retrofitting of static relays by numerical relays (MELCO, GTG Unit # 3):	436.02	0	0	0	25(2-d)	Proposal as offered by MC/MELCO for numerical relay with panels has already been initiated but asked to review due to high cost. M/S GE T&D, the manufacturer of numerical realys was requested to acesses the technical suitability for incorporation of Rotor earth fault	
6	Major overhauling / servicing of M/S MITSUBISHI make generator and exciter /GTG Unit # 4).	180.19	0	0	0	25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S MELCO make generator and exciter needs to carry out within 8-10 yead to enhance the life of equipment. Order for spares has placed for GTG # 1 & 4	
7	Procurement of Overhauling / Servicing spares for M/S BHEL make Generator and Exciter (Unit # 7)	103.49	0	0	0	25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S BHEL make generator and exciter needs to carry out within 8-10 yead to enhance the life of equipment	

8	Major overhauling / servicing of M/S BHEL make generator and exciter (Unit # 7)	97.58	0	0	0	25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S BHEL make generator and exciter needs to carry out within 8-10 years to enhance the life of equipment	
	Total (A)	4,856.96	0	0	0			
				Major Spares				
1	Major Spares Capitalization	1,774.72	0	0	0			
	Total (B)							
				Items under Exclusion				
	Total (C)	0	0	0	0			
	Grand Total (A+B+C)	6,641.68	0.00	0.00	0.00			

Note: 1. The DPR for LE of AGBPS has already submitted after due approval of competent authority.
2. The above Add Cap works are as per the DPR for LE of AGBPS

Name of the Petitioner: North Eastern Electric Power Corporation Ltd
Name of the Generating Station: Assam Gas Based Power Plant
COD: 01.04.1999
For Financial Year: 2027-28

All figs are in Rs lakh

SI	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis (Rs in lakh)	Un-discharged Liability included in(Rs in lakh) col.3	Cash Basis				
1	2	3	4	(5=3-4)	6	7	8.0	9
1	Turbine Blade Ring & Torque Tube cover of MHI GTG Unit # 2	864.13	0	0	0	25(2-d)	Cracks and abrasion were observed in Turbine Blade Ring and Torque Tube cover. Wall reduction was also observed in many places of the Turbine Blade Ring and Torque Tube cover due to high temperature oxidation. Moreover, due to long and sustained operation of the Gas Turbines at varied load, permanent deformation has occurred in the Turbine Blade Ring of the unit. Due to this, loss occurs owing to uneven clearance between moving blades and baffle segments. To rectify these, we propose to replace the Turbine Blade Ring and Torque Tube cover	
2	Exhaust cylinder & exhaust manifold of MHI GTG Unit # 2	2,524.50	0	0	0	25(2-d)	Cracks and abrasion were observed in Exhaust cylinder & exhaust manifold. Wall reduction was also observed in many places of the Exhaust cylinder & exhaust manifold. Due to crack hot gas leakage was observed from many places.	
3	Retrofitting of static relays by numerical relays (MELCO, GTG Unit # 4)	436.02	0	0	0	25(2-d)	Proposal as offered by MC/MELCO for numerical relay with panels has already been initiated but asked to review due to high cost. M/S GE T&D, the manufacturer of numerical realys was requested to acesses the technical suitability for incorporation of Rotor earth fault	
4	Procurement of Overhauling / Servicing spares for M/S BHEL make Generator and Exciter (Unit # 8)	103.49	0	0	0	25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S BHEL make generator and exciter needs to carry out within 8-10 yeaid to enhance the life of equipment	
	Total (A)	3,928.26	0	0	0			
				Major Spares				
1	Major Spares Capitalization	1,863.45	0	0	0			

	Total (B)	1,863.45	0	0	0			
	Items under Exclusion							
1	Renovation of Residential & Non Residential Building		0	0	0			
	Total (C)	0	0	0	0			
	Grand Total (A+B+C)	5,791.71	0	0	0			

Note: 1. The DPR for LE of AGBPS has already submitted after due approval of competent authority.
2. The above Add Cap works are as per the DPR for LE of AGBPS

Name of the Petitioner: North Eastern Electric Power Corporation Ltd
Name of the Generating Station: Assam Gas Based Power Plant
COD: 01.04.1999
For Financial Year: 2028-29

All figs are in Rs lakh

Sl.No	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.2	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis (Rs in lakh)	Un-discharged Liability included in(Rs in lakh) col.3	Cash basis				
1	2	3	4	(5=3-4)	6	7	8.0	9
1	New unbucketed GT Rotor of BHEL GTG Unit # 5	2,760.70	0	0	0	25(2-d)	After 2 lakh Run Hours, replacement or comprehensive Refurbishment of Rotor is recommended by the OEM. We have decided to replace the Rotor with new one comparing the Price and expected life of refurbished and new Rotor.	
2	LE of Cooling Tower- Replacement of Drive mechanism of Cooling tower (4 Set of Drive mechanism)	23.01	0	0	0	25(2-a)	Required for replacement for life extension.	
3	Rotor refurbishment of Steam Turbine-2	470.81	0	0	0	25(2-d)	Taken out rotor of Steam turbine unit-2 shall be refurbished at BHEL Hyderabad which shall be used in Steam Turbine Unit-2 as part of major overhauling and LE.	
4	Procurement of Overhauling / Servicing spares for M/S BHEL make Generator and Exciter (Unit # 5)	203.48	0	0	0	25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S BHEL make generator and exciter needs to carry out within 8-10 years to enhance the life of equipment	
5	Major overhauling / servicing of M/S BHEL make generator and exciter (Unit # 5)	57.68	0	0	0	25(2-d)	As per recommendation of OEM, Major overhauling / servicing of M/S BHEL make generator and exciter needs to carry out within 8-10 years to enhance the life of equipment	
	Total (A)	3,455.67	0	0	0			
						Major Spares		
1	Major Spares Capitalization	1,959.62	0	0	0			
	Total (B)	1,959.62	0	0	0			
						Items under Exclusion		
	Total (C)	0	0	0	0			
	Grand Total (A+B+C)	5413.29	0.00	0.00	0.00			

Note: 1. The DPR for LE of AGBPS has already submitted after due approval of competent authority.
2. The above Add Cap works are as per the DPR for LE of AGBPS

PART-I
FORM-1

SUMMARY SHEET

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM			

(Amount in lakhs)

Sl.	Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3		5	6	7	8	9
1.1	Depreciation	Rs Lakh	7,805.44	305.58	583.36	903.28	1,233.10	1,535.17
1.2	Interest on Loan	Rs Lakh	-	2,473.32	2,845.86	2,996.54	3,206.33	3,341.52
1.3	Return on Equity	Rs Lakh	15,101.95	10,190.85	10,521.81	10,700.79	10,948.58	11,156.81
1.4	Interest on Working Capital	Rs Lakh	3,847.17	2,716.45	2,776.15	2,831.80	2,890.41	2,950.96
1.5	O & M Expenses-Normative	Rs Lakh	12,096.87	13,927.28	14,657.67	15,428.82	16,237.80	17,090.43
1.6	Special allowance (If applicable)	Rs Lakh						
1.7	Compensation Allowance (if applicable)	Rs Lakh						
	ANNUAL FIXED COST BEFORE SECURITY EXPENSES, CAPITAL SPARES AND WATER CHARGES	Rs Lakh	**38,851.43**	**29,616.30**	**31,484.85**	**32,861.23**	**34,522.22**	**36,083.89**
	Security Expenses	Rs Lakh	495.08	495.08	495.08	495.08	495.08	495.08
	Water Charges	Rs Lakh	10.00	-				
	Capital Spares	Rs Lakh	715.38	1,609.72	1,693.21	1,774.72	1,863.46	1,956.62
	Less 10% salvage value	Rs Lakh	71.54	160.97	169.32	177.47	186.35	195.66
	TOTAL AFC	Rs Lakh	**39,960.35**	**31,560.13**	**33,501.12**	**34,953.56**	**36,694.40**	**38,339.72**
2.1	Landed Fuel Cost Gas as per FSA approved by beneficiaries	(Rs/SCM)	20.62	16.13	16.13	16.13	16.13	16.13
	(%) of Fuel Quantity	%	NA	NA	NA	NA	NA	NA
2.2	Landed Fuel Cost Imported Coal as per FSA approved by beneficiaries	%	NA	NA	NA	NA	NA	NA
	(%) of Fuel Quantity		NA	NA	NA	NA	NA	NA
2.3	Target Generation (at 70% PAF)	MWh	1,769,512.03	1,746,095.03	1,736,340.67	1,736,340.67	1,746,095.03	1,746,095.03
	Gross Station HR (Open Cycle)	kCal/kWh	3,578.00	3,578.00	3,578.00	3,578.00	3,578.00	3,578.00
	Gross Station HR (Combined Cycle)	kCal/kWh	2,600.00	2,600.00	2,600.00	2,600.00	2,600.00	2,600.00
	GCV of fuel gas	kCal/SCM	9,185.13	9,179.70	9,179.70	9,179.70	9,179.70	9,179.70
2.4	Landed Fuel Cost (coal/gas (RLNG/liquid) other than FSA	(Rs/SCM)	NA	NA	NA	NA	NA	NA
	(%) of Fuel Quantity	%	NA	NA	NA	NA	NA	NA
	Energy Charge Rate ex-bus (Paise/kWh) 2A,2B,2C,2D	Rs/Kwh	6.00	4.697	4.697	4.697	4.697	4.697

(Petitioner)

STATEMENT SHOWING CLAIMED CAPITAL COST: PART-I

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Amount in lakhs)

Sl.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.0	Opening Capital Cost	162,690.27	172,957.50	174,443.58	179,310.54	183,238.80
2.0	Add: Addition during the year/period	10,267.23	1,486.08	4,866.96	3,928.26	3,455.67
3.0	Less: De-capitalisation during the year/period	-	-	-	-	-
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period					
6.0	Closing Capital Cost	172,957.50	174,443.58	179,310.54	183,238.80	186,694.47
7.0	Average Capital Cost	167,823.88	173,700.54	176,877.06	181,274.67	184,966.64

Statement showing claimed capital cost eligible for RoE at normal rate (A)

Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1.0	Opening Capital Cost	162,523.97	172,791.20	174,277.28	179,144.24	183,072.50
2.0	Add: Addition during the year/period	10,267.23	1,486.08	4,866.96	3,928.26	3,455.67
3.0	Less: De-capitalisation during the year/period	-	-	-	-	-
4.0	Less: Reversal during the year / period	-	-	-	-	-
5.0	Add: Discharges during the year/period	-	-	-	-	-

6.0	Closing Capital Cost	172,791.20	174,277.26	176,144.24	183,072.50	186,528.18
7.0	Average Capital Cost	167,658.00	173,534.00	175,711.00	181,108.00	184,800.00

Statement showing claimed capital cost eligible for RoE at weighted average rate of interest on actual loan portfolio (B)

Sl.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1.0	Opening Capital Cost	166.30	166.30	166.30	166.30	166.30
2.0	Add: Addition during the year/period					
3.0	Less: De-capitalisation during the year/period					

Form-Q(1)

CALCULATION OF INTEREST ON WORKING CAPITAL

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Rs. in lakh)

1. Calculation of Fuel costs:		2024-25	2025-26	2026-27	2027-28	2028-29
Normative Heat Rate		2600	2600	2600	2600	2600
Normative annual plant availability factor (NAPAF) %		70%	70%	70%	70%	70%
Weighted average landed price of primary fuel (Rs./ SCM)		16.1264	16.1264	16.1264	16.1264	16.1264
Gross calorific value of primary fuel (kCal/SCM)		9179.703	9179.703	9179.703	9179.703	9179.703
Target Energy generation/year (MU)		1740.10	1735.34	1735.34	1735.34	1740.10
Target Energy generation/month (MU)		145.01	144.61	144.61	144.61	145.01
ECR(Rs/KwH)		4.697	4.697	4.697	4.697	4.697
Cost of Fuel per month (Rs. lakhs)		**6,811.02**	**6,792.41**	**6,792.41**	**6,792.41**	**6,811.02**

2. Computation of receivables:

(Rs. in lakh)

Variable Charges per year	20105.40	81732.26	81508.95	81508.95	81508.95	81732.26
Variable Charges - 1 1/2 months	5925.19	10216.53	10188.62	10188.62	10188.62	10216.53
Fixed Charges - 1 1/2 months	5548.35	3702.04	3935.61	4107.65	4315.28	4510.46
Receivables (1 1/2months)	**11473.54**	**13918.57**	**14124.23**	**14296.27**	**14503.90**	**14726.99**

(Petitioner)

CALCULATION OF INTEREST ON WORKING CAPITAL

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Rs. in lakh)

Sl. No.	Particulars	Existing 2018-19	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite [1]						
2	Cost of Main Secondary Fuel Oil [1]						
3	Fuel Cost [2] (for 15 days)	0	3405.51	3396.21	3396.21	3396.21	3405.51
4	Liquid Fuel Stock [2]						
5	O & M Expenses (One month O&M ex	1054.86	1201.86	1262.73	1326.99	1394.41	1465.46
6	Maintenance Spares (@ 30% of operation and maintenance expenses, including water	3797.55	4326.70	4545.83	4777.17	5019.96	5275.65
7	Receivables- 45 days of capacity charge and energy charge	11473.53	13918.57	14124.23	14296.27	14503.90	14726.99
8	**Total Working Capital**	**16325.96**	**22852.65**	**23328.99**	**23796.64**	**24314.37**	**24873.62**
9	Rate of Interest	13.50%	11.90%	11.90%	11.90%	11.90%	11.90%
10	**Interest on Working Capital**	**2204.00**	**2719.46**	**2776.15**	**2831.80**	**2893.41**	**2959.96**
	SBI MCLR AS ON 1ST APRIL OF EACH YEAR		8.65%	8.65%	8.65%	8.65%	8.65%
	+ 325 BASIS POINTS		3.25%	3.25%	3.25%	3.25%	3.25%
	BANK RATE	13.50%	11.90%	11.90%	11.90%	11.90%	11.90%

Note :

1 For Coal based / Lignite based generating stations

2 For Gas Turbine / Combined Cycle generating stations duly taking into account the annual mode of operation (last available) on gas fuel and liquid fuel

(Rs. in lakh)
(Petitioner)

YEAR		2024-25	2025-26	2026-27	2027-28	2028-29
Security Exp		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Water Charge (Form-20)						

PART-I
FORM-1(IIA)

STATEMENT SHOWING RETURN ON EQUITY AT NORMAL RATE:

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

(Amount in lakhs)

Sl.	Particulars	Unit	2024-25	2025-26	2026-27	2027-28	2028-29
1	2		3	4	5	6	7
	Return on Equity						
1	Gross Opening Equity (Normal)	Rs Lakh	77,745.87	51,887.25	52,333.07	53,793.16	54,971.64
2	Less: Adjustment in Opening Equity	Rs Lakh	-	-	-	-	-
3	Adjustment during the year	Rs Lakh	28,938.79	-	-	-	-
4	Net Opening Equity (Normal)	Rs Lakh	48,807.08	51,887.25	52,333.07	53,793.16	54,971.64
5	Add: Increase in equity due to addition during the year / period	Rs Lakh	3,080.17	445.82	1,460.09	1,178.48	1,036.70
6	Less: Decrease due to De-capitalisation during the year / period	Rs Lakh	-	-	-	-	-
7	Less: Decrease due to reversal during the year / period	Rs Lakh	-	-	-	-	-
8	Add: Increase due to discharges during the year / period	Rs Lakh	-	-	-	-	-
9	Net closing Equity (Normal)	Rs Lakh	51,887.25	52,333.07	53,793.16	54,971.64	56,008.34
10	Average Equity (Normal)	Rs Lakh	50,347.17	52,110.16	53,063.12	54,382.40	55,489.99
11	Rate of ROE	Rs Lakh	18.782	18.782	18.782	18.782	18.782
12	Total ROE	Rs Lakh	9,456.20	9,787.33	9,966.31	10,214.10	10,422.13

(Petitioner)

PART-I
FORM-1(II)

STATEMENT SHOWING RETURN ON EQUITY AT WAROI

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :	ASSAM GAS BASED POWER STATION
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM

(Amount in lakhs)

Sl.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)					
1	Gross Opening Equity (Normal)	49.89	49.89	49.89	49.89	49.89
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	49.89	49.89	49.89	49.89	49.89
5	Add: Increase in equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
6	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
8	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
9	Net closing Equity (Normal)	49.89	49.89	49.89	49.89	49.89
10	Average Equity (Normal)	49.89	49.89	49.89	49.89	49.89
11	Rate of ROE	14.722	14.722	14.722	14.722	14.722
12	Total ROE	734.48	734.48	734.48	734.48	734.48
	One year MCLR +350 Basi point	12.150	12.150	12.150	12.150	12.150

There is no actual loan . So interest is taken as 9.783% as per Tariff order dtd 21.12.21 Petition No. 258/GT/2019

(Petitioner)

Plant Characteristics

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : Assam Gas Based Power Plant

Unit(s)/Block(s) Parameters	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
Installed Capacity (MW)	33.5	33.5	33.5	33.5	33.5	33.5	30	30	30
Schedule COD as per Investment Approval									
Actual COD/Date of Taken Over (as applicable)	1.5.1995	1.5.1995	1.7.1995	1.8.1995	1.4.1997	1.4.1997	1.4.1999	1.4.1999	1.4.1999
Pit Head or Non Pit Head									
Name of the HRSG							Waste Heat Recovery Boiler	Waste Heat Recovery Boiler	Waste Heat Recovery Boiler
Name of the Turbine Generator Manufacture	Mitsubishi Heavy Industry, Japan	Mitsubishi Heavy Industry, Japan	Mitsubishi Heavy Industry, Japan	Mitsubishi Heavy Industry, Japan	BHEL	BHEL	BHEL	BHEL	BHEL
Main steams Pressure at Turbine inlet (kg/Cm²)abs[1]							43	43	43
Main steams Pressure at Turbine inlet (°C)[1]									
LPSteams Pressure at Turbine inlet (kg/Cm²)[1]									
LPSteams Temperature at Turbine inlet (°C)[1]							473	473	473
Main Steam flow at Turbine inlet under MCR condition (tons/hr)[2]									
Main Steam flow at Turbine inlet under VWO condition (tons/hr)[2]									
Unit Gross electrical output under MCR/Rated condition (MW)[2]									
Unit Gross electrical output under VWO condition (MW)[2]									
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh)[3]									
Conditions on which design turbine cycle heat rate guaranteed.	2167	2167	2167	2167	2167	2167	2070	2070	2070
% MCR	100								
% Makeup Water Consumption							7	7	7
Design Capacity of Makeup Water System									
Design Capacity of inlet Cooling System									
Design Cooling Water Temperature (°C)							27	27	27
Back Pressure							0.083	0.083	0.083
Steam flow at super heater outlet under BMCR condition (tons/hr) - Main/HP Steam									
Steam Pressure at super heater outlet under BMCR condition (kg/Cm²)- Main/HP Steam									
Steam Temperature at super heater outlet under BMCR condition (°C)- Main/HP Steam									
Steam flow at LP outlet under BMCR condition (tons/hr) - LP Steam									
Steam Pressure at LP outlet under BMCR condition (°C)- LP Steam									
SteamTemperature at LP outlet at BMCR condition (°C)- LP Steam									
Design/Guaranteed HRSG Efficiency (%)[4]									
Design Fuel with and without blending of domestic/imported coal									
Type of Cooling Tower							Induced draft	Induced draft	Induced draft

PART-I
FORM-3

Normative parameters considered for tariff computations

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM			

Year ending March

Particulars	Unit		2024-25	2025-26	2026-27	2027-28	2028-29
1	2		4	5	6	7	8
Base Rate of Return on Equity	%		15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization			15.50	15.50	15.50	15.50	15.50
Effective Tax Rate*	%		17.472	17.472	17.472	17.472	17.472
Target Availability	%		70	70	70	70	70
Auxiliary Energy Consumption	%		2.75	2.75	2.75	2.75	2.75
Gross Station Heat Rate	kCal/kWh		2600	2600	2600	2600	2600
Specific Fuel Oil Consumption	ml/kWh		NA	NA	NA	NA	NA
Cost of Coal/Lignite for Working Capital*	in Months		NA				
Cost of Main Secondary Fuel Oil for WC*	in Months						
Fuel Cost for Working Capital*	in Months		1.5	1.5	1.5	1.5	1.5
Liquid Fuel Stock for Working Capital*	in Months						
O & M expenses considering Regulation 29(1)(c)	` lakhs / MW		47.86	50.57	53.02	55.8	58.73
Maintenance Spares for Working Capital	% of O&M		30	30	30	30	30
Receivables for Working Capital	in Months		0.5	0.5	0.5	0.5	0.5
Storage capacity of primary fuel	MT						
SBI Base Rate + 325basis points as on	%		11.900%	11.900%	11.900%	11.900%	11.900%
Blending ratio of domestic coal/imported coal	NA						

1. For Coal based/lignite based generating stations
2. For Gas Turbine/Combined Cycle generating stations duly taking into account the mode on gas fuel and liquid fuel
3. Mention relevant date

Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or advance tax)/gross income, where gross income refers the profit before tax.

PART-I
FORM-5

Abstract of Admitted Capital Cost for existing Projects

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station : ASSAM GAS BASED POWER STATION	
Place (Region/District/State): North Eastern Region District: DIBRUGARH State: ASSAM	

Last date of order of Commision for the project	Date(DD-MM-YYYY)	21.12.2021
Reference of petition no. in which the above order was passed	Petition No.	298/GT/2019
Following details (whether admitted and / or considered) as on the last date of the period for which tariff is approved in the above order by the Commission :		
Capital cost (Rs . in lakh)		154584.7824
Amount of un-discharged liabilities included in above (& forming part of the admitted capital cost)		0.00
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		13.8524
Gross Normative Debt (Rs . in lakh)		113883.1897
Cumulative Repayment (Rs . in lakh)		92194.91036
Net Normative Debt (Rs . in lakh)		21688.28
Normative Equity (Rs . in lakh)		75359.96
Cumulative Depreciation (Rs . in lakh)		123736.71
Freehold land (Rs . in lakh)		150.17

(Petitioner)

PART-I
FORM-17

DETAILS OF CAPITAL SPARES (TENTATIVE)

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.				
Name of the Generating Station :	ASSAM GAS BASED POWER STATION				
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM		
Date of Commercial Operation :	4/1/1999				

FY2024-25

In Lakhs

Sl. No.	Details of Capital Spares and Expenses		Tentative Claim as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (If Applicable)	Claimed as a part of stores and spares
	Name of spare	Tentative Amount (in Rs.)				
1	ASSEMBLY, NOX SENSOR:GAS ENGINE-	10.41	10.41			
2	ACTUATOR ASM, GAS REGULATING:GAS ENGINE	12.48	12.48			
3	VALVE AND ACTUATOR W/O ACCS CV-9/10	14.57	14.57			
4	VALVE AND ACTUATOR W/O ACCS CV20/21 ILTD	10.76	10.76			
5	Gas Engine Capital Spares	226.00	226.00			
6	FIBERSCOPE INDUSTRIAL FIBERSCOPE ET60HD-S DIGITAL	10.26	10.26			
7	Actuator ASM Gas Regulating	8.28	8.28			
8	Seal Assy. With Seal Support Bars	16.19	16.19			
9	Gear Box: GS315/GZ30	15.92	15.92			
10	Capacity Control VLV Actuator	15.50	15.50			
11	Nozzle Ring	9.46	9.46			
12	Dresser Rand Gas Compressors capital spares	250.00	250.00			
13	245 KV HV Bushing +15MVA Stationery Transformer	8.85	8.85			
14	HV Bushing+50MVA Generator Transformer	8.85	8.85			
15	MHI Gas Turbine Capital Spares	300.00	300.00			
16	P-N: 43969-00001Flame Detector Ignition System	31.11	31.11			
17	Capital Spares for BHEL Gas Turbines	155.00	155.00			
18	Charmatograph Natural Gas With Accessories	65.64	65.64			
19	Complete Set of control VLV, CV-20//21	10.79	10.79			
20	Capital Spares for C&I	100.00	100.00			

PART-I
FORM-10

Financing of Additional Capitalisation

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.									
Name of the Generating Station :	ASSAM GAS BASED POWER STATION									
Place (Region/District/State):	North Eastern Region		District: DIBRUGARH		State: ASSAM					
Date of Commercial Operation :	4/1/1999									

(Amount in Rs Lakh)

	Actual					Admmited				
Financial Year (Starting from COD)^1	Year 1	Year 2	Year 3	Year 4	Year 5 & so on	Year 1	Year 2	Year 3	Year 4	Year 5 & so on
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipment										
Financing Details										
Loan 1										
Loan 2										
Total Loan										
Equity										
Internal Resources										
Others (pl. specify)										
Total										

Note :

1. Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent Financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per Form 7 or 8 whichever is relevant.

Petitioner

NOT APPLICABLE

PART-I
FORM-11

CALCULATION OF DEPRECIATION

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.								
Name of the Generating Station :	ASSAM GAS BASED POWER STATION								
Place (Region/District/State) :	North Eastern Region	District: DIBRUGARH		State: ASSAM					
Date of Commercial Operation :	4/1/1993								

Note :

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification

(Petitioner)

PART-I
FORM-12

STATEMENT OF DEPRECIATION

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.			
Name of the Generating Station :	ASSAM GAS BASED POWER STATION			
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM			

(Amount in Rs. Lakh)

Particulars		2024-25	2025-26	2026-27	2027-28	2028-29	Remarks
Opening Capital Cost		162,690.27	172,957.50	174,443.58	179,310.54	183,236.80	
Closing Capital Cost		172,957.50	174,443.58	179,310.54	183,236.80	186,694.47	
Average Capital Cost		167,823.88	173,700.54	176,877.06	181,274.67	184,966.64	
Land Value		150.17	150.17	150.17	150.17	150.17	
Rate of Depreciation%							
Gross Block excluding land		**167,673.71**	**173,550.37**	**176,726.89**	**181,124.50**	**184,816.47**	
Depreciable Value		150,906.34	156,195.33	159,054.20	163,012.05	166,334.82	
Balance useful life at the beginning of the period		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Cumulative Depreciation upto previous year		146,322.68	146,628.25	147,311.62	148,214.89	149,447.99	
Remaining Depreciable Value		4,583.67	9,567.08	11,742.59	14,797.16	16,886.83	
Depreciation (for the period)		**305.58**	**683.36**	**903.28**	**1,233.10**	**1,535.17**	
Depreciation (Annualized)		**305.58**	**683.36**	**903.28**	**1,233.10**	**1,535.17**	
Cumulative Depreciation at the end of the period		146,628.25	147,311.62	148,214.89	149,447.99	150,983.16	
Less: Cumulative depreciation adjustment on account of undischarged liabilities deducted as on 01.04.2009/Station COD		-	-	-	-	-	
Less: Cumulative depreciation adjustment on account of decapitalization							
Net Cumulative Depreciation at the end of the period		**146,628.25**	**147,311.62**	**148,214.89**	**149,447.99**	**150,983.16**	

1. In case of details of FERV , give information for the applicable period.

(Petitioner)

PART-I
FORM-15

Details of Source wise Fuel for Computation of Energy Charges:

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER PLANT

Sl. No.	Month	Unit	2023-2024					
			October		November		December	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Gas supplied by Gas Company	('000 SCM)	40124.23		38574.01		40055.29	
2	Adjustment (+/-) in quantity supplied made by Gas Company	('000 SCM)	0		0		0	
3	Gas supplied by Gas Company (1+2)	('000 SCM)	40124.23		38574.01		40055.29	
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	('000 SCM)	N.A.		N.A.		N.A.	
5	Net Gas Supplied (3-4)	('000 SCM)	40124.23		38574.01		40055.29	
6	Amount charged by the Gas Company (Transportation Charge included)	(Rs.)	649190033		624095647		641785767	
7	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	0		0		0	
8	Total amount Charged (6+7)	(Rs.)	649190033		624095647		641785767	
9	Transportation charges by rail/ship/road transport	(Rs.)	0		0		0	
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0		0		0	
11	Demurrage Charges, if any	(Rs.)	0		0		0	

12	Total Transportation Charges (9+/-10-11)	(Rs.)	0		0		0	
13	Total amount Charged for Gas supplied including Transportation (8+13)	(Rs.)	649190033		624095647		641785767	
14	Landed cost of gas/coal/ Lignite	(Rs./'000 SCM)	16179.50		16179.18		16022.50	
15	Weighted average GCV of gas/coal/ Lignite as Received	Kcal/SCM	9185.000		9177.000		9177.000	
16	Weighted average cost of gas/coal/ Lignite for preceding three months	(Rs./'000 SCM)	16126.439					
17	Weighted average GCV gas/coal/ Lignite for preceding three months	Kcal/SCM	9179.703026					

Note :

1. Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants with appropriate units.
2. As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor.

(Petitioner)

PART 1
FORM- 18

Non-Tariff Income

Name of the Petitioner
Name of the Generating Station

S. No.	Parameters	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1.	Income from rent of land or buildings or eco- tourism						
2.	Income from sale of scrap						
3.	Income from advertisements						

Note: To be submitted at the time of truing up

(Petitioner)

PART 1
FORM- 19

Details of Water Charges

Name of the Petitioner
Name of the Power Station: North Eastern Electric Power Corporation Ltd

Amt in INR

Sl. No	Details of Water charges (excluding water cess)		Quantity allocated	Normative consumption at 85% PLF	Rate specified (as per govt. notification or agreement)	Spillage of water (in percentage)	Amount Claimed
	Name of source and quantity	Amount	Unit..				
1							
2							
3							

PART 1
FORM- 20

DETAILS OF STATUTORY CHARGES

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.	
Name of the Generating Station :	ASSAM GAS BASED POWER STATION	
Place (Region/District/State):	North Eastern Region District: DIBRUGARH State: ASSAM	

FY19-20 In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty			
2	Water Cess**			-

Unit rate and Quantum to be provided by F&A Wing, AGBPS

(Petitioner)

Details of Statutory Charges

Name of the Petition: North Eastern Electric Power Corporation Ltd
Name of the Power station: ASSAM GAS BASED POWER STATION

FY20-21 In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.57	40449430	80.90
2	Water Cess**			-

Unit rate and Quantum to be provided by F&A Wing, AGBPS

(Petitioner)

Details of Statutory Charges

Name of the Petition: North Eastern Electric Power Corporation Ltd
Name of the Power station: ASSAM GAS BASED POWER STATION

FY21-22 In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed
1	Electricity Duty	7.38	38875181	77.75
2	Water Cess**			-

Unit rate and Quantum to be provided by F&A Wing, AGBPS

(Petitioner)

Details of Statutory Charges

Name of the Petiotion: North Eastern Electric Power Corporation Ltd

Name of the Power station: ASSAM GAS BASED POWER STATION

FY22-23

In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed	
1	Electricity Duty	7.90	41013276	416.49	Unit rate and Quantum to be provided by F&A Wing, AGBPS
2	Water Cess**			-	

(Petitioner)

Details of Statutory Charges

Name of the Petiotion: North Eastern Electric Power Corporation Ltd

Name of the Power station: ASSAM GAS BASED POWER STATION

FY23-24

In Lakhs

Sl. No	Particulars	Unit Rate	Quantum	Amount Claimed	
1	Electricity Duty	7.9	72342208	197.04	Unit rate and Quantum to be provided by F&A Wing, AGBPS
2	Water Cess**			1.46	Unit rate and quantum to be provided by HOP Office, AGBPS

(Petitioner)

PART-I
FORM-D

Break-up of Construction/Supply/Service packages

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER STATION

1	Name/No. of Construction/Supply/Service Packages	Package A	Package B	Package C	....	Total Cost of all packages
2	Scope of works[1] (in line with head of cost break-ups as applicable)					
3	Whether awarded through ICB/DCB/Departmentally/Deposit Work					
4	No. of bids received					
5	Date of Award					
6	Date of Start of work					
7	Date of Completion of Work/Expected date of completion of work					
8	Value of Award[2] in (Rs. Lakh)					
9	Firm or With Escalation in prices					
10	Actual capital expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)					
11	Taxes & Duties and IEDC (Rs. Lakh)					
12	IDC, FC, FERV & Hedging cost (Rs. Lakh)					
13	Sub-total (10 + 11 + 12) (Rs. Lakh)					

Note:
1. The scope of work in any packages should be indicated in conformity of Capital cost break-up for the coal/lignite based plants in the FORM B to the extent possible. In case of Gas/Liquid Fuel based projects, break down in the similar manner in the relevant heads as per FORM C.
2. If there is package, which need to be shown in Indian Rupee and foreign currency (ies), the same should be shown separately along with the currency, the exchange rate and the date e.g. Rs 80 Cr + US$ 50m = Rs 390 Cr at US$=/rs 62 as on say 01.04.14.

"Not Applicable in case of AGBP"

(Petitioner)

Statement of Additional Capitalisation during five year before the end of useful life of the Project

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : ASSAM GAS BASED POWER STATION
COD 01.04.1999

In Lakh

Sl. No.	Year	Work / Equipment added during last five years of useful life of each Unit/Station	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Impact on life extension
			Accrual basis	Un-discharged Liability included in col. 4	Cash basis	IDC included in col. 4			
1	2	3	4.00	5	6 = (4-5)	7	8	9	10
1		Replacement of old Waukesha Gas Engine 12V275 SL of Unit-4 of GBS along with all auxiliaries like Air Cooled Heat Exchanger (ACHE),Fuel filter	1,991.29	0	1,991.29	0	25(2)(d)	The reasons for replacement of old Waukesha Gas Engine with new higher capacity AT 12V 275GL+ Waukesha Gas Engine with its auxiliaries and enhancement of Gas Compressor capacity were as follows: 1. The Old Gas Engine was old and obsolete. 2. There was a design problem for which the engine power was not sufficient to drive the compressor. 3. To increase reliability of the Gas Booster Station (GBS) as well as the plant. 4. The Old Gas Compressors were unable to deliver and 4 units were put into service to run all the 6 numbers of Gas Turbines. There are four numbers of Gas Booster Station to cater service for supply processed gas to the Gas Turbines. As per design philosophy, 3 GBS units are in running condition to run 6 numbers of Gas Turbines. As per the approval of the CERC the replacement of 3 (three) out of 4 (four) numbers of Gas Gas Engines were completed within 2015-16. The reason for not considering the 4th unit during 1st phase were as follows: 1. The condition of 4th GBS unit was comparatively in good condition during that period. 2. There was good numbers of inventories for old Waukesha Gas Engines as well as Gas Compressors. If the replacement of the 4th Gas Engine would completed during 2015-16 to 2016-17, a hugh amount of capital would have been kept in unutilised condition. 3. If all the 4 units were considered for replacement during the period 2014-19 block, the capital cost infused for replacement of 4th GBS unit would have been loaded in the tariff during the period 2014-19 block. However, in this case, the cost impact on the tariff due to Add Cap infused would be for the period 2019-24 block. 4. So, replacement of Gas Engines in phase manner does not have any financial impact on the beneficiaries, rather distributed the expenditure of additional capital cost for replacement of Gas Engines in a segregated manner. In view of the above, Honorable Commission is requested to allow the cost of replacement of Gas Engine and modification of compressor of 4th GBS unit as per actual expenditure basis.	15 YEARS
2		Revamping/modification of the Dresser-Rand Gas Compressor of GBS Unit-4	884.06	0	884.06	0	25(2)(c)		15 YEARS
		Upgradation of 3700 series, BENTELY-NETWADA make Vibration monitoring system of GT-1 and GT-2.	103.00		103.00		35(2)(c)	VMS rack 3700 of M/S Bently-Nevada is obsolete. Spare support is not available. As such, upgradation of Vibration Monitoring System is essential for safety of the equipment. The OEM has issued obsolete certificate. Installation and commissioning in GTG Unit # 1 on 19/06/2019 and GTG Unit # 2 on 20/06/2019	15 YEARS

	Replacement of existing UPS with battery Bank for GT controllers and Online monitoring system.	119.79		119.79		25(2)(c)	1) Commission has already been admitted for the Year 2016-17 for an amount of Rs. 104.00 Lakhs and the works has already been completed in 2019-20. 2) The UPS system including Battery for GT controller and online monitoring system have commissioned in 1995. 3) As per guidelines of OEM, the life periods of Tubular Type (Microscopic Rubber) battery is 10-14 years and Plated Type (Microscopic Rubber) is 5-7 years. 4)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension.	15 YEARS
3	Construction of 20 MVAR Line Reactor	122.72	0	122.72	0	25(2)(c)	As per AOH between NERPC/NERLDC and NEEPCO for system stability of NER grid.	15 YEARS
4	Replacement of Tabular Lead Acid Battery 48 V TBS (OPZS) 500AH of PLCC system	30.21	0	30.21	0	28(2)(c)	1)The 48 V DC Battery bank and Caldyno make battery Charger for PLCC had installed initially by PGCIL which was in service since commissioning of the plant (1995). Due to deteriorated condition of the 48 Volts Battery bank, it was advise in the 134th OCC meeting for replacement of the 48 Volts Battery bank. Moreover, the OEM suggested for replacement / upgradation of the same. 2) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd 27.08.2015, units above 15 years old qualify for Mid Life R&M works for Life Extension. Accordingly, it is necessary for replacement old battery bank for reliable operation of the system.	15 YEARS
5	Upgradation of protection system by replacing existing electro-magnetic relays with numerical relays	16.79	0	16.79	0	25(2)(c)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidence for life extension has already submitted.	15 YEARS
6	Time Synconisation of RTU	2.91	0	2.91	0	25(2)(c)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MP/R/01/2010 dtd. 20/8/2010 under clause No. 43/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 2) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 3) It is necessity for time synchronization for the safety and security of grid. 4) DPR/documentry evidence for life extension has already submitted.	15 YEARS
9	Gas Leakage System (Major Spares), New System	11.24	0	11.24	0	28(2)(c)	The system was old and obsolete. So, upgraded with new system.	15 YEARS
10	Replacement of Digital Voltage Regulator(DAVR) FOR STG II	18.35	0	18.35	0	28(2)(c)	The existing Control AVR system of ABB was obsolete. The spare support of the old system was not available. As such, to make the system reliable and avoid outages due to non- availability of the spares, the system is replaced with new DAVR. The OEM has issued obsolete certificate.	15 YEARS
11	Vibration Monetoring System STG-I and STG#3	129.17	0	129.17	0	25(2)(c)	VMS rack 3706 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	15 YEARS
12	Technical Advisory Services for Turbine inspection of GT-4	74.38	0	74.38	0	25(2)(c)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul inspection of the Gas Turbine under Technical advisory of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
13	MAJOR CAPITALISED SPARES FY19-20	3,378.00	0	3,378.00	0	35(1)(b)	Capital spares for enhance life of the plant	15 YEARS

14		Replacement of old existing hydraulic operated CB with new ABB make spring operated SF6 of Circuit Breaker	162.78	0	162.78	0	25(2)(C)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind refernce. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentry evidence for life extension has already submitted.	15 YEARS
15		Replacement of Fill Packs of Cooling Tower	91.54	0	91.54	0	25(2)(C)	Packed fill packs of cooling tower was replaced to improve water distribution as well as to improve cooling tower efficiency. Improvement of cooling tower efficiency improves condenser performance and thereby efficiency of steam turbine improves.	15 YEARS
16		HMI REPACEMENT & Reinstallation including Custom duty	114.94	0	114.94	0	25(2)(C)	Server cum HMI of GT#5 was based on windows-XP and of GT#6 was windows-2007. Service support and Anti-virus update for Window-XP & 2007 was not available. HMI of GT#5 is replaced with windows-10 and GT#6 is upgraded to windows-10	15 YEARS
17		Upgradation of HMI Mark Control system	9.44	0	9.44	0	25(2)(C)		15 YEARS
18		Vibration Monitering & Temeparature Monitering System STG#2	59.72	0	59.72	0	25(2)(C)	VMS rack 3300 of M/S Bently-Nevada is obsolete. Spare support is not available. Replaced with 3500 rack	15 YEARS
19		Vibration Monitering & Temeparature Monitering System STG#2	5.59	0	5.59	0	25(2)(C)		15 YEARS
20		Technical Advisory Services for MI with LGB and AGB inspection of BHEL supplied GT U #5	82.41	0	82.41	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul Inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
21		Technical Advisory Services for MI with LGB and AGB inspection of BHEL supplied GT U #6	148.69	0	148.69	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out Turbine Inspection and Major Overhaul Inspection of the Gas Turbine under Technical advisors of OEM and to replace those parts which have completed their lives. By doing the the life of the Gas Turbine is extended.	15 YEARS
22		5 Nos Haier Air Condision Outdoor	12.27	0	12.27	0	25(2)(C)	The cooling of the various control cards in DDC panels are essential to avoid any fault in the DDC panel due to heating and consequently to avoid any forced outages of the Gas Turbines. So, considering the urgency and as per Safety committee report, 5 (five) numbers of floor standing AC are installed in addition to the Centralised AC system. Installation of 5 numbers of vertical AC system makes the control system reliable and effective.	15 YEARS
23		MAJOR CAPITALISED SPARES FY20-21	2,479.00	0	2,479.00	0	35(1)(6)	Capital spares for enhance life of the plant	15 YEARS
24	FY19-24	Procurement of Transformer Oil Filtration plant of capacity 9000LPH	17.94	0	17.94	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old quamfy for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.	15 YEARS
25		Transformer filtration plant of capacity 1200LPH	4.25	0	4.25	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. 2)As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.08.2015 , units above 15 years old quamfy for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. Filtration Plant has already been procured for filtration of Transformer oil necessity to ensure healthyness of transformer.	15 YEARS
26		Single chamber skid mounted type Transformer Oil Storage tank	7.46	0	7.46	0	25(2)(C)	1) The old transformer oil filtration plants against different ratings/capacity for total 31 nos transformer have been in service since commissioning (1995) of the Plant and have already been crossed 25 years. This is a part of Filtration Plant and necessity for 2MVA Aux. Transformer and same has already been procured for filtration of Transformer oil.	15 YEARS

27	245 KV 2000AMPS Cirkt Breaker for 220 KV Switch yard	62.95	0	62.95	0	25(2)(C)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd 27.09.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind refernce. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentary evidence for life extension has already submitted.	15 YEARS
28	245 KV 2000AMPS Cirkt Breaker for 220 KV Switchyard	43.71	0	43.71	0	25(2)(C)	1) As per CEA guidelines issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.09.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. 2) The old BHEL make 220 KV SF6 CB have commissioned in 1995 and already cross 25 years. Moreover, BHEL (OEM) has expressed their inability for supply of spares for old hydraulic operated SF6 CB (Type-3AV1). Copy of letter/guidelines are enclosed for kind refernce. For reliable operation of generating plant, it was necessity to replace at the earliest possible time. Accordingly, the works have already been completed. 3) DPR/documentary evidence for life extension has already submitted.	15 YEARS
29	VT PUMP Pump model: 400TE3G4 with accessories	8.79	0	8.79	0	25(2)(C)	Raw water is collected from the River Barhelding by pumping water through vertical turbine pump having overall shaft length of 13.5 mtr. Due to long shaft as well rotor wt, life span of intake pump is very less and frequent breakdown take place after two years of operation. Replacement with new pump leads reliable operation as well as minimize O&M expenditure. Installation of new pump is much cost benificial than replacement of worn out parts.	15 YEARS
30	VT PUMP Pump model: 400TE3G4 with accessories	8.79	0	8.79	0	25(2)(C)	Do.	15 YEARS
31	Bulk acid tank	14.96	0	14.96	0	25(2)(C)	Bulk acid storage tank is required to store HCL as required for regeneration of SAC resin. The existing old acid storage tank were replaced with new tanks for life extension.	15 YEARS
32	Fume Absorbed Acid tank	0.46	0	0.46	0	25(2)(C)	Part of bulk acid storage tank as stated above.	15 YEARS
33	DIGITAL VOLTAGE REGULATOR DAVR	19.41	0	19.41	0	25(2)(C)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 5	15 YEARS
34	DIGITAL VOLTAGE REGULATOR DAVR	1.16	0	1.16	0	25(2)(C)	Service for the above	15 YEARS
35	DIGITAL VOLTAGE REGULATOR DAVR	20.59	0	20.59	0	25(2)(C)	Unitrol-M AVR system of ABB is obsolete. Spare support is not available. Replaced with DAVR of GT Unit # 6	15 YEARS
36	DIGITAL VOLTAGE REGULATOR DAVR	1.89	0	1.89	0	25(2)(C)	Service for the above	15 YEARS
37	CUMMINS ENGINES FOR GT UNITS 5 (INSTALLATION)	85.91	0	85.91	0	25(2)(C)	Due to ovation of Crank Case Lube Oil with Sleeve, the major components like crankshaft, piston etc. of the Starting Diesel Engine got seized. The engine was 25 years old and the repair cost of the old engine is high. As such, it was decided to procure 1 (one) new Starting Diesel Engine.	15 YEARS
38	Upgradation of Centralised AC system by replacing 3 numbers of 70TR water cooled reciprocating chiller Units by high efficiency 80TR water cooled screw chiller along with Cooling Towers	88.19	0	88.19	0	25(2)(C)	The reciprocating type chillers were already crossed 25 years of operation. Due to ageing problem, the performance & efficiency was decreasing day-by-day and hence encountering various type of technical problem. Moreover, the OEM was unable to supply various spares for maintenance due to obsolance of the chillers. Hence, the Central AC plant was upgraded with higher capacity Screw type Chillers, which are more efficient and reliable.	15 YEARS
39	Medium Volt Covered Conductor(MVCC) IN 11 KV Line for intake pump house	16.40	0	16.40	0	25(2)(C)	The part of the 11 KV Intake line was converted to MVCC for protection and reliability of the line.	15 YEARS
40	MAJOR CAPITALISED SPARES FY21-22	400.00	0	400.00	0	35(1)(B)	Capital spares for enhance life of the plant	15 YEARS
41	CRI & CRI OF MAIN GAS TURBINECOMPRESSOR ROTOR(REFURBISHMENT) original rotor of unit # 3 and installed at GT unit # 2	2,606.76	0	2,606.76	0	35(2)(a)	As per recommendation of OEM, M/s Mitsubishi Corporation, Japan, either CRI-CRI (compressor rotor refurbishment and comprehensive Rotor Inspection) or replacement of turbine rotor of Gas Turbine is necessary to obtain the desired output of the turbine after 1 lakh fired hours. This will enhance the life of the GT.	15 YEARS

42	Upgradation of Electro-magnetic relay to Numerical Relay of Gas Turbine Generators	34.95	0	34.95	0	25(2)(C)	1) Existing solid state Relays are old, obsolete and have already been crossed more than 25 years. It is essential to ensure sensitivity, reliability and speed by replacing old/obsolete relays with Numerical relays. 2) Disturbance record and Event Logger facility is not available in the existing Relay which is required to comply the CEA guidelines. 3)As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MI/R/01/2010 dtd. 20/8/2010 under clause No. 42/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. 4) More over "All operational data, including disturbance recorder and event logger reports, for analysing the grid incidents and grid disturbance and any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 5) DPR/documentry evidance for life extension has already submitted.	15 YEARS
43	Upgradation of EMS (ABT) Energy Management system	28.74	0	28.74	0	25(2)(C)	Server cum HMI of the system was windows server-2012 & ABT software was PME-2008	15 YEARS
44	DCS CONTROLLER SYSTEM	696.21	0	696.21	0	25(2)(C)	P-13 ABB DCS completed 21-yr operation & spare support was not available. Trouble and	15 YEARS
45	PLC	26.55	0	26.55	0	25(2)(C)	Allen-Bradly (Rockwell) PLC, SLC-500 completed 25 yr operation. Spare support was no	15 YEARS
46	Technical Advisory Service by MHI for GT#2	291.21	0	291.21	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turb	15 YEARS
47	Renovation of existing CO2 flooding system of GT#3 & 4	55.40	0	55.40	0	25(2)(C)	The Power Station has already crossed 25 years of operation. The CO2 system is one of	15 YEARS
48	SITC of 630 KVA, 11/0.433 KV 3 phase distribution transformer for intake pump house	11.94	0	11.94	0	25(2)(C)	The life of the transformerr has already completed.	15 YEARS
49	MAJOR CAPITALISED SPARES FY22-23	1,795.00	0	1,795.00	0	35(1)(6)	Capital spares for extension life of the plant	15 YEARS
50	REPLACEMENT OF OLD EXISTING 245 KV CURRENT TTRANFORMER OF 220 KV SWITCH-YARD	222.95	0	222.95	0	25(2)(C)	1) As per "Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006" and subsequent amendments, the accuracy class for tariff metering core shall be equal to 0.2S or better, PS for differential protection and 5P20 for other protection. The notifications of CEA issued vide no: CEA-GO-13-15/3/2019-OPR Division dtd. 29/12/2019 may kindly be referred. 2) The accuracy class of our existing old BHEL make CTs for metering core is 0.5 and already crossed more than 25 years. 3) Moreover, as per CEA publishion issued vide no: 2/3/Misc./TPRM/CEA/2015/965 dtd.27.06.2015 , units above 15 years old qualify for Mid Life R&M works whereas units above 25 years (as on 31.3.2017) qualify for comprehensive R&M works for Life Extension. The copy of CEA Regulations 2006 and guidelines are enclosed for references. 4) Order has already been placed. 5) DPR/documentry evidance for life extension has already submitted.	15 YEARS
51	SITC of Standalone Disturbance Recorder & Event Logger	69.75	0	69.75	0	25(2)(C)	1) As per Central Electricity Authority (Grid Standards)Regulations 2010 issued vide no:CEA/TETD/MI/R/01/2010 dtd. 20/8/2010 under clause No. 42/15, all protection relay shall be numerical type and communication protocol shall be as per IEC-61850/relevant standards. "All operational data, including disturbance recorder, event logger reports, for analysing the grid incidents and grid disturbance, any other data which in its view can be of help for analysing grid incident or grid disturbance shall be furnished by all the Entities within twenty four hours to the Regional Load Despatch Centre and concerned Regional Power Committee". 2) Moreover, as per CERC regulations "Recording Instruments such as Data Acquisition System/ Disturbance Recorder/Event Logging Facilities/Fault Locator shall be provided and shall always be kept in working condition in the ISTS for recording of dynamic performance of the system. All users, STUs and CTU shall provide all the requisite recording instruments and shall always keep them in working condition." As such to comply with the CERC regulations, order has already been placed.	15 YEARS
52	Fluke multifunction calibrator with Pump & Sensor	11.72	0	11.72	0	25(2)(C)	For onsite calibration of Control Valves, Positioner etc., Standard Calibrator with pump was not available.	15 YEARS
53	Upgradation of SWAS System of Module1_ STG#1	201.74	0	201.74	0	25(2)(C)	System has completed 25-yr and not in operation due to obsolete analyser and other components.	15 YEARS
54	Spares for CBs of GT# 6	361.49	0	361.49	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS

55		Renovation of existing CO2 flooding system of GTG1 & 2	55.40	0	55.40	0	25(2)(C)	The Power Station has already crossed 25 years of operation. The CO2 system is one of the vital integral component for safety of the equipment as well as Plant. Since, the CO2 system became old and obsolete, the system has been renovated and upgraded with new system.	15 YEARS
56		Supply, installation, testing & commissioning of 75 KLD STP	40.77	0	40.77	0	25(2)(C)	Installation of STP in a power house is as per statutory requirement.	15 YEARS
57		Spares for OEI of GTG 5	148.00	0	148.00	0	25(2)(C)	Gas Turbine and its spares have definite life. For sustained performance of the Gas Turbine it is necessary to carry out inspection of the Gas Turbine and to replace those parts which have completed their lives. By doing this the life of the Gas Turbine is extended.	15 YEARS
58		M I & OH of Generator & Exciter of GTG U # 5	77.00	0	77.00	0	25(2)(C)	The overhauling of Generator & Exciter was carried out as per the guidelines of OEM for the extension of the equipment. Moreover, the stator winding temperature was observed in higher side.	15 YEARS
59		MAJOR CAPITALISED SPARES FY23-24	306.10	0	306.10	0	25(2)(C)	Capital spares for enhance life of the plant	15 YEARS
			17,879.57		17,879.58				

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes

2. Justification for additional capital expenditure claim for each asset should be relevent to regulations under which claim has been made and the necessity of capitalisation of the asset

(Petitioner)

PART-I
FORM-I

Details of Assets De-capitalized during the period

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
Region : NE Region State: Assam District: Dibrugarh

FY2024-25 In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
		Total	0.00		0.00	
		Net without exclusion	-		-	

Note: Year wise detail need to be submitted.

(Petitioner)

FY2025-26

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
		Total	0.00		0.00	
		Net without exclusion	-		-	

Note: Year wise detail need to be submitted.

(Petitioner)

FY2026-27

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan

1	2	3	4	5	6	7
1						
2						
3						
4						
5						
6						
7						
8						
		Total	**0.00**		**0.00**	
		Net without exclusion	-		-	

Note: Yeer wise detail need to be submitted.

(Petitioner)

FY2027-28

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1						
2						
3						
4						
5						
6						
7						
8						

		Total	0.00		0.00	
		Net without exclusion	-		-	

Note: Year wise detail need to be submitted.

(Petitioner)

FY2028-29

In lakhs

Sl No.	Name of the Asset	Nature of de-capitlization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	2	3	4	5	6	7
1						
2						
3						
4						
		Total	0.00		0.00	
		Net without exclusion	-		-	

Note: Year wise detail need to be submitted.

(Petitioner)

PART-I
FORM-J

Reconciliation of capitalisation claimed vis-à-vis books

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1999

In lakhs

Sl No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Closing Gross Block as per IND AS	178381.28	180404.51	180875.59	186369.25	187506.04
2	Add/Less: Adjustments*	0	0	0	0	0
3	**Closing Gross Block as per IGAAP**	178381.28	180404.51	180875.59	186369.25	187506.04
4	Opening Gross Block as per IND AS	171294.63	177206.11	179789.71	180752.22	185989.10
5	**Add/Less: Adjustments***	0.00	0	0	0	0
6	Opening Gross Block as per IGAAP	171294.63	177206.11	179789.71	180752.22	185989.10
7	**Total Additions as per books (G = 3 - 6)**	7086.65	3198.40	1085.88	5617.04	1516.94
8	**Less: Additions pertaining to other Stages (give Stage wise breakup)**	0	0	0	0	0
9	**Net Additions pertaining to instant project/Unit/Stage**	7086.65	3198.40	1085.88	5617.04	1516.94
10	**Less: Exclusions (Items not allowable / not claimed**	318.39	#REF!	2127.74	#REF!	32.28
11	**Net Additional Capital Expenditure Claimed (on accrual basis)**	6768.27	#REF!	-1041.86	#REF!	1484.66
12	**Less: Un-discharged Liabilities (as per IGAAP)**	1385.24	1385.24	0	0	0
13	**Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works (as per IGAAP)**	0	0	1385.24	0	0
14	**Net Additional Capital Expenditure Claimed (on cash basis)**	**5383.03**	**#REF!**	**343.38**	**#REF!**	**1484.66**

Note: (1) Form is to be certified by the Auditor and Certificate issued as per the guidelines prescribed by their governing body.
(2) Reason for exclusion of any expenditure shall be given in Clear terms. *Break-up to be specified.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1999

FY19-20 (In lakhs)

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Renovation of A type Quarters		0.00	64.99		NEEPCO/AGBP/CWC/T-2/2018-19/516 DTD 29.05.2018
2	Renovation & Modernisation of Bank Building		0.00	11.26		NEEPCO/AGBP/CWC/T-92/2018-19/2091 DTD 13.02.2019
3	R & M OF A-Type Quarter NoA-49,50,55,57		0.00	65.64		NEEPCO/AGBP/CWC/T-2/2018-19/544-47 DTD 01.06.2018
4	Construction of Class Room at VKV,AGBP		0.00	8.55		NEEPCO/AGBP/CWC/T-2/2019-20/1231 DTD 28.10.2019
5	Modification & Extension of Toilet & Urinal adjacent with dinning hall of GH-II		0.00	11.59		NEEPCO/AGBP/CWC/T-2/2018-19/2048 DTD 11.02.2019
6	Godrej Unwind Chair		0.00	0.30		
7	Godrej Personal Locker		0.00	1.17		
8	Godrej Chair & Table		0.00	4.18		
9	Misce Equipment		0.00	0.51		
10			0.00	0.10		
11	Misce Equipment		0.00	0.15		
12	Kirloskar MonoblockWater Pump Set 2 Nos		0.00	1.12		NEEPCO/AGBP/UWC/T-3/19-20/111 DTD 09.07.2019
13	Kirloskar MonoblockWater Pump Set 10.0HP		0.00	0.77		NEEPCO/AGBP/UWC/T-3/19-20/317 DTD 16.12.2019
14	Panasonic AC		0.00	1.73		
15	4 nos Water Purifier		0.00	0.49		
16	Purchase of Motorola		0.00	3.46		
17	Piston & Rod Assembly 23 " HOS	-	0.00	29.00		
18	Capitalisation of Major Spares	-	0.00	4.00		NEEPCO/AGBP/PEM/O&M-08/19-20/60 DTD 29.05.2019
19	Capitalisation of Mandatory Spares for R &M Unit-IV	-	0.00	34.00		

20	Installation Charges of Gas Leakage System	-	0.00	1.00		
21	Technical Advisory Services for Turbine Inspection of GT-4		0.00	74.38		
22	Capital Spares not utilized		0.00	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.		
			Total	318.39		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed.
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Company : **NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1999

FY20-21 In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Pmt. Internal Wearing & Electrification of newly constructed Class Room & Ladies Toilet at VKV,AGBP	0.58	0.00	0.58		NEEPCO/AGBP/UWC/T-06/20-21/09 DTD 29.04.2020
2	Installation of Tube well at B-Type Colony	8.37	0.00	8.37		NEEPCO/AGBP/CWC/19-20/T-02/547 DTD 30.07.2019
3	Crompton Horizontal OpenWell Submersible Pump Motor	0.22	0.00	0.22		NEEPCO/AGBP/UWC/T-03/2020-21/254 DTD 29.12.2020
4	SERVER	3.10	0.00	3.10		GEMC-511687787322327 DTD 08.04.2020
5	Monitor & Printer	0.30	0.00	0.30		NEEPCO/AGBP/IT-04/2020-21/45 DTD 11.11.2020
6	18 NOS Laptop	15.07	0.00	15.07		GEMC-511687758169561 DTD 13.11.2020
7	Blower Machine	0.32	0.00	0.32		
8	Automatic Sanitizer Machine	0.60	0.00	0.60		
9	2 Nos Brush Cutter	0.91	0.00	0.91		CWC/1655 DTD 23.03.2021

10	Gyser 25 ltrs	0.11	0.00	0.11		
11	Gyser 25 ltrs 2 Nos	0.23	0.00	0.23		NEEPCO/AGBP/UWC/T-3/20-21/252 DTD 19.12.2020
12	Gyser 25 ltrs 2 Nos	0.24	0.00	0.24		NEEPCO/AGBP/UWC/T-3/20-21/372 DTD 17.03.2021
13	Ahuja Make Speaker BOX for NRC	1.04	0.00	1.04		AGBP/PERS/WE-05/2019-20/5426 DT 20.03.2020
14	8 Nos LED TV	1.68	0.00	1.68		AGBP/PERS/ADMN-14/2020-21/5619-21 DT 10.02.2021
15	Fire Extinguisher	0.38	0.00	0.38		GEMC-51168770976720 DT 12.10.2020
16	5 Nos Haier Air Condision Outdoor	12.27	0.00	12.27		
17	Capital Spares not utilized	#REF!	0.00	#REF!		
			Total	#REF!		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed.
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1999

FY21-22 — In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Fork Lift	15.95	0.00	15.95		GEMC 511687767765942 DTD 08.02.2021
2	BRUSHWEED CUTTER	0.92	0.00	0.92		CWC/1668 DTD 23.03.2021
3	HAND OPERATED TREE BRANCH CUTTER	0.18	0.00	0.18		CWC/1668 DTD 23.03.2021
4	TOSHI TOUCH FREE INFRARED HAND DRYER	0.06	0.00	0.06		
5	Top End Overhauling of GBS Unit-3	195.84	0.00	195.84		HOP/20-21/456 DTD 14.12.2020
6	Microtek UPS EB 1100 (12V)	0.07	0.00	0.07		LMVC/20-21/362 DTD 09.03.2021

7	Exide Inva Master IMTT1500	0.15	0.00	0.15		UWC/20-21/352 DTD 09.03.2021
8	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
9	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
10	Automatic Sanitizer dispenser, Tank capacity 5 ltr	0.12	0.00	0.12		F&S/21-22/3600000121
11	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
12	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
13	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
14	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
15	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
16	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
17	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
18	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
19	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
20	Panasonic make 2 Tr. Split AC	0.61	0.00	0.61		SFC/21-22/173 DTD 21.08.2021
21	VOLTAS SPILT AIR CONDITIONER 2 TR	0.54	0.00	0.54		UWD/164 DTD 07.08.2021
22	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
23	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
24	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
25	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
26	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
27	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
28	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
29	ONEIRIC 1.5 TON AC-WITH 3 BEE STAR RATING	0.30	0.00	0.30		GEMC- 511687724299288 DT 17.02.2022
30	hp laserjet printer	0.20	0.00	0.20		
31	12 Ton Hydraulic Mobile Crane -IS:4573	16.73	0.00	16.73		GEMC 511687775863639-1 DTD 04.01.2022

32	Insulation Tester_1000V	0.22	0.00	0.22		GEMC 511697795507074 DTD 31.12.2021
33	Acquaguard for HOP residence	0.27	0.00	0.27		
34	Contruction of boundary wall for grazing land	5.28	0.00	5.28		
35	Security Surviience Room	18.56	0.00	18.56		
	Fume Absorbed Acid tank	0.48	0.00	0.48		
36	Capital Spares not utilized	1,863.45	0.00	1863.45		
			Total	2,127.74		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed.
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1999

FY22-23 — In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	Renovation Work for Clariflocculator of AGBPS	8.03	0.00	8.03		
2	Renovation of Areator	4.64	0.00	4.64		
3	Renovation of Intake well pump house	4.89	0.00	4.89		
4	Liquid Nitrogen Storage equipment	0.26	0.00	0.26		
	STIHL HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.25	0.00	0.25		
	Mild Steel Movable Stand for Mounting Digital display	0.23	0.00	0.23		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	5 NOS 18.5 LG MONITOR	0.09	0.00	0.09		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		

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	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP LAPTOP 440 G8(I5-1135)	0.79	0.00	0.79		
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All in one Printer, Model: HP-316	0.13	0.00	0.13		IT/77 DTD 25.05.2022
	HP All In One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP All In One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP All In One Ink Tank HP 316	0.13	0.00	0.13		IT/116 DTD 12.08.2022
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N12330353	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035H	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	HP 400 G7 SFF Desktop PC, CPU.NO: 1N1233035N	0.79	0.00	0.79		
	Digisol Switch DG-DS 1528	0.13	0.00	0.13		
	8-Ports Managed PoE- Sl No: 94192302021, 00157	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302022, 00158	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302023, 00159	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302024, 00160	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302025, 00161	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302026, 00152	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302027, 00153	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023

	8-Ports Managed PoE- Sl No: 94192302028, 00154	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302029, 00155	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302030, 00156	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302046, 00162	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	8-Ports Managed PoE- Sl No: 94192302048, 00151	0.11	0.00	0.11		GEMC 511687716460229 DT 17.02.2023
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	Biometric Face Recognition Machines	0.19	0.00	0.19		
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.36	0.00	0.36		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022

	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.55	0.00	0.55		GEMC 511687740694655 DTD 11.03.2022
	CP Plus PTZ IP Camera	0.54	0.00	0.54		GEMC 511687740694655 DTD 11.03.2022
	Voltriq SmartTV 85" 4k UltraHD -851VOL0920220001	1.75	0.00	1.75		
	Voltriq SmartTV 85" 4k UltraHD -851VOL0920220001	1.75	0.00	1.75		
	USB Camera with Integrated Speaker for VC System.	0.38	0.00	0.38		
	Outdoor Mild Steel Led Display System (8 ft. x 10	4.75	0.00	4.75		
	LG Microwave Oven for Household purposes	0.16	0.00	0.16		
	Battery	0.19	0.00	0.19		NEEPCO/AGBP/F&S/S-8/2022-23/143 DTD 13.02.2023
	Capital Spares not utilized	#REF!	0.00	#REF!		
			Total	#REF!		

Note:

1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed,
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

Statement showing items/assets/works claimed under Exclusions:

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station
COD 4/1/1999

FY23-24 — In lakhs

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5 = (3-4)	6	7
1	STIHL HANDHELD BRUSH CUTTER/ LINE TRIMMER .	0.25	0.00	0.25		
2	HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.08	0.00	0.08		
3	HANDHELD BRUSH CUTTER/ LINE TRIMMER	0.08	0.00	0.08		
4	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
5	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
6	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
7	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
8	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
9	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
10	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
11	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
12	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
13	Godrej Split Air Conditioner including green AC 35	0.37	0.00	0.37		
14	Chain Pipe Wrench IS : 4123 Length = 920 mm	0.03	0.00	0.03		
15	Chain Pipe Wrench IS : 4123 Length = 920 mm	0.03	0.00	0.03		
16	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
17	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
18	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
19	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
20	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
21	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
22	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
23	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
24	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		

25	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
26	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
27	Thermo-S/Steel Electric Water Heater-Geyser -15Lt.	0.04	0.00	0.04		
28	Semi automated biochemistry analyzer (Arkray)	2.39	0.00	2.39		
29	EPSON MF PRINTER MODEL: L1250, S/No: XSLX00	0.12	0.00	0.12		
30	EPSON MF PRINTER MODEL: L1250, S/No: XSLX00	0.12	0.00	0.12		
31	EPSON MF PRINTER MODEL: L1250, S/No: XSLX00	0.12	0.00	0.12		
32	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
33	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
34	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
35	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
36	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
37	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
38	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
39	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
40	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
41	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
42	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
43	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
44	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
45	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
46	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
47	UP GRADATION OF CORE I5 LAPTOP	0.03	0.00	0.03		
48	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CQJ	0.99	0.00	0.99		
49	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CQM	0.99	0.00	0.99		
50	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRK	0.99	0.00	0.99		
51	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRQ	0.99	0.00	0.99		
52	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRW	0.99	0.00	0.99		
53	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CRX	0.99	0.00	0.99		
54	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT2	0.99	0.00	0.99		
55	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT5	0.99	0.00	0.99		
56	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT7	0.99	0.00	0.99		
57	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTF	0.99	0.00	0.99		
58	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTS	0.99	0.00	0.99		
59	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTW	0.99	0.00	0.99		
60	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTY	0.99	0.00	0.99		
61	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CTZ	0.99	0.00	0.99		
62	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CV0	0.99	0.00	0.99		
63	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CVK	0.99	0.00	0.99		
64	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CR7	0.99	0.00	0.99		
65	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSQ	0.99	0.00	0.99		
66	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSY	0.99	0.00	0.99		
67	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CSZ	0.99	0.00	0.99		
68	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CT1	0.99	0.00	0.99		
69	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CV7	0.99	0.00	0.99		
70	HP ProBook 440G9 PN-678R0AV, S/N-5CD3459CVC	0.99	0.00	0.99		
71	HP Scanner Flow N8600 fnw1	0.97	0.00	0.97		
72	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		

73	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
74	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
75	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
76	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
77	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
78	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
79	Designer Decorative Desk Bench for Kids PlayHouse	0.08	0.00	0.08		
80	Capital Spares not utilized	-	0.00	-		
			Total	32.28		

Note:
1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed.
2. For inter unit transfer, nature of transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and certified that exclusion sought in receiving station only and not in sending station or in both the station.

(Petitioner)

PART-I

(To be given for relevant dates and year wise)

Form-L

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY19-20 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.			
		Accrual Basis	Un- discharge liability	Cash Basis	
A	a) Opening Gross Block Amount as per books	171,294.83			169,909.39
	b) Amount of capital liabilities in A(a) above	1,385.24			
	c) Amount of IDC in A(a) above				
	d) Amount of FC in A(a) above				
	e) Amount of FERV in A(a) above				
	f) Amount of Hedging Cost in A(a) above				
	g) Amount of IEDC in A(a) above				
B	a) Addition in Gross Block Amount during the period (Direct purchases)	4,351.24			
	b) Amount of capital liabilities in B(a) above				
	c) Amount of IDC in B(a) above				
	d) Amount of FC in B(a) above				
	e) Amount of FERV in B(a) above				
	f) Amount of Hedging Cost in B(a) above				
	g) Amount of IEDC in B(a) above				
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	2,735.42			
	b) Amount of capital liabilities in C(a) above				
	c) Amount of IDC in C(a) above				
	d) Amount of FC in C(a) above				
	e) Amount of FERV in C(a) above				
	f) Amount of Hedging Cost in C(a) above				
	g) Amount of IEDC in C(a) above				
D	a) Deletion in Gross Block Amount during the period	-			
	b) Amount of capital liabilities in D(a) above				
	c) Amount of IDC in D(a) above				
	d) Amount of FC in D(a) above				
	e) Amount of FERV in D(a) above				
	f) Amount of Hedging Cost in D(a) above				
	g) Amount of IEDC in D(a) above				
E	a) Closing Gross Block Amount as per books	178,381.28			
	b) Amount of capital liabilities in E(a) above	1,385.24			
	c) Amount of IDC in E(a) above				
	d) Amount of FC in E(a) above				
	e) Amount of FERV in E(a) above				
	f) Amount of Hedging Cost in E(a) above				
	g) Amount of IEDC in E(a) above				

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY20-21 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.			
		Accrual Basis	Un- discharge liability	Cash Basis	
A	a) Opening Gross Block Amount as per books	177,206.11			175,820.87
	b) Amount of capital liabilities in A(a) above	1,385.24			
	c) Amount of IDC in A(a) above				
	d) Amount of FC in A(a) above				

	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	3,198.40		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	-		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	-		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	180,404.51		
	b) Amount of capital liabilities in E(a) above	1,385.24		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of units/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY21-22 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	179,769.71		
	b) Amount of capital liabilities in A(a) above	1,385.24		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above	-		
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	612.53		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	473.35		
	b) Amount of capital liabilities in C(a) above			

	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
	-			
D	a) Deletion in Gross Block Amount during the period	-		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	180,675.59		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of units/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY22-23 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	180,752.22		
	b) Amount of capital liabilities in A(a) above	-		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	1949.06		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	3,657.98		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	-		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			

E	a) Closing Gross Block Amount as per books	186,369.26		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement of Capital cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Bsed Power Station

FY23-24 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening Gross Block Amount as per books	185,869.10		
	b) Amount of capital liabilities in A(a) above	-		
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in Gross Block Amount during the period (Direct purchases)	522.97		
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)	993.96		
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period	-		
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books	187,500.04		
	b) Amount of capital liabilities in E(a) above	-		
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

PART-I

Statement in Capital Works in Progress **FORM M**

(To be given for relevant dates and year wise)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY19-20 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening CWIP as per books	152.94	0	152.94
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	2,681.44	0	2681.44
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	2,735.42	0	2735.42
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	98.96	0	98.96
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	- 0.00	-	-
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**
(To be given for relevant dates and year wise)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY20-21 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening CWIP as per books	-	0	0
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			

	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	2,521.53	0	2521.53
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	-	0	0
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	2,521.53	-	2,521.53
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date& means date of COD of unit/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**
(To be given for relevant dates and year wise)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY21-22 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	On- discharge liability	Cash Basis
A	a) Opening CWIP as per books	2,521.53	0	2521.53
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	5,693.74	765.00	7,719.74
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	473.35	0	473.35
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			

	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	3,933.92	166.00	3,767.92
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of units/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**
(To be given for relevant dates and year wise)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY22-23 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening CWIP as per books	3,933.92	166.00	3,767.92
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	3,079.60	0	3,079.60
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			3,179.64
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	3,667.96	166.00	3,667.96
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	3,345.54	-	3,179.54
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			

	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

Statement in Capital Works in Progress **FORM M**
(To be given for relevant dates and year wise)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

FY23-24 (Amount in Rs. Lakh)

Sl. No.	Particulars	As on relevant date.		
		Accrual Basis	Un- discharge liability	Cash Basis
A	a) Opening CWIP as per books	3,345.54	-	3,179.54
	b) Amount of capital liabilities in A(a) above			
	c) Amount of IDC in A(a) above			
	d) Amount of FC in A(a) above			
	e) Amount of FERV in A(a) above			
	f) Amount of Hedging Cost in A(a) above			
	g) Amount of IEDC in A(a) above			
B	a) Addition in CWIP during the period	4,173.28	26.12	4,147.16
	b) Amount of capital liabilities in B(a) above			
	c) Amount of IDC in B(a) above			
	d) Amount of FC in B(a) above			
	e) Amount of FERV in B(a) above			
	f) Amount of Hedging Cost in B(a) above			
	g) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period	993.96	0	993.96
	b) Amount of capital liabilities in C(a) above			
	c) Amount of IDC in C(a) above			
	d) Amount of FC in C(a) above			
	e) Amount of FERV in C(a) above			
	f) Amount of Hedging Cost in C(a) above			
	g) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period	-	0	0
	b) Amount of capital liabilities in D(a) above			
	c) Amount of IDC in D(a) above			
	d) Amount of FC in D(a) above			
	e) Amount of FERV in D(a) above			
	f) Amount of Hedging Cost in D(a) above			
	g) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books	6,624.86	26.12	6,332.74
	b) Amount of capital liabilities in E(a) above			
	c) Amount of IDC in E(a) above			
	d) Amount of FC in E(a) above			
	e) Amount of FERV in E(a) above			
	f) Amount of Hedging Cost in E(a) above			
	g) Amount of IEDC in E(a) above			

Note:
1.Relevant date/s means date of COD of unit/s/station and financial year start date and end date

(Petitioner)

PART-I
FORM-N

CALCULATION OF INTEREST ON NORMATIVE LOAN

Name of the Petitioner :	NORTH EASTERN ELECTRIC POWER CORPORATION LTD.				
Name of the Generating Station :					
Place (Region/District/State):	North Eastern Region	District: DIBRUGARH	State: ASSAM		

(in Lacs)

Sl. No.	Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Gross Normative loan - Opening	84,389.47	113,883.19	121,070.25	122,110.51	125,517.38	128,267.16
	Cumulative repayment of Normative loan upto previous year	84,389.47	92,194.91	92,500.49	93,183.85	94,087.13	95,320.22
	Net Normative loan - Opening	-	21,688.28	28,569.76	28,926.66	31,430.25	32,946.94
	Add:Increase due to addition during the year / period	816.97	7,187.06	1,040.26	3,406.87	2,749.78	2,418.97
	Less: Decrease due to de-capitalisation during the year / period	311.92	-	-	-	-	-
	Less: Decrease due to reversal during the year / period	-	-	-	-	-	-
	Add:Increase due to discharges during the year / period	-	-	-	-	-	-
	Net Addition	505.04	7,187.06	1,040.26	3,406.87	2,749.78	2,418.97
	Less : Repayment(s) of Normative Loan during the year	7,805.44	305.58	683.36	903.28	1,233.10	1,535.17
	Repayment adjustment on a/c of de capitalization (F)		-				
	Net Repayment	7,805.44	305.58	683.36	903.28	1,233.10	1,535.17
	Net Normative loan - Closing	-	28,875.34	29,610.02	32,333.53	34,180.03	35,365.91
	Average Normative loan	-	25,281.81	29,089.89	30,630.09	32,805.14	34,156.42
	Weighted average rate of interest	9.783%	9.783%	9.783%	9.783%	9.783%	9.783%
	Interest on loan	-	2,473.32	2,845.86	2,996.54	3,209.33	3,341.52

Petitioner

PART-I
FORM-P

Incidental Expenditure up to SCOD and up to Actual/anticipated COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

(Amount in Rs. Lakh)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD	
A	Head of Expenses:			
1	Employees' Benefits Expenses			
2	Finance Costs			
3	Water Charges			
4	Communication Expenses			
5	Power Charges			
6	Depreciation			
7	Other Office and Administrative Expenses			
8	Others (Please Specify Details)			
9	Other Pre-Operating Expenses			
B	Total Expenses			
	Less: Income from sale of tenders			
	Less: Income from guest house			
	Less: Income recovered from Contractors			
	Less: Interest on Deposits			

(Petitioner)

" Not Applicable In Case of AGBP"

PART-I
FORM-Q

Expenditure under different packages up to SCOD and up to Actual/anticipated COD

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Generating Station : Assam Gas Based Power Station

(Amount in lacs)

Sl. No.	Parameters	As on Scheduled COD	As on actual COD/ Anticipated COD
1	Package 1		
2	Package 2		
3	Package 3		
4	Package 4		
5			
6			

(Petitioner)

" Not Applicable in Case of AGBP"

PART-I
FORM-R

Actual Cash Expenditure

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Assam Gas Based Power Station

(Amount in lakhs)

Particulars	Quarter-I	Quarter-II	Quarter-III	Quarter-n / DOCO
Expenditure towards Gross Block				
Add: Expenditure towards CWIP	-	-	-	-
Add: Capital Advances, if any	-	-	-	-
Less: Un-discharged liabilities (included above)	-	-	-	-
Add/Less: Others	-	-	-	-
Payment to contractors / suppliers towards capital assets	-	-	-	-
Cumulative payments	-	-	-	-

Note: If there is variation between payment and fund deployment justification need to be furnished

" Not Applicable in Case of AGBP"

(Petitioner)

PART-I
FORM-5

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

FY19-20

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2020	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

FY20-21

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2021	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1997-1998	240.78	240.78	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
BHARAT HEAVEY ELECTRICAL LTD(E)	Gas Turbine unit V&VI	1995-1996	1,144.46	1,144.46	NIL	NIL
	Steam Turbine Unit I,II & III	1999-2000			NIL	NIL
	Switch Gear	1995-1996			NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2022	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2023	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
NIL	NIL	NIL	NIL	NIL	NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

Liability Flow Statement

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Stati Assam Gas Based Power Station

Party	Asset/Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2024	Discharges (Yearwise)	Reversal (Yearwise)
a) For assets eligible for normal RoE						
NIL	NIL	NIL	NIL	NIL	NIL	NIL
b) For assets eligible for RoE at weightage average rate of interest on loan						

(Petitioner)

FORM-I

Particulars	
1. Name of the Petitioner/Applicant	NORTH EASTERN ELECTRIC POWER CORPORATION Ltd. (NEEPCO Ltd.)
2. Address of the Petitioner/Applicant	Brookland Compound, Lower New Colony, Shillong - 793003
3. Subject Matter	CERC Application Fees for Financial Year 2024-25
4. Petition No., or Application No, if any	As applicable
5. Details of generation assets (a) Generating station/units	1. Kopili Hydro Electric Plant 200 MW 12.07.1997 2. Kopili – II Hydro Electric Plant 25 MW 26.07.2004 3. Khandong Hydro Electric Plant 50 MW 04.05.1984 4. Doyang Hydro Electric Plant 75 MW 08.07.2000 5. Pamyor Lower Hydro Electric Plant 405 MW 12.04.2002 6. Pare Hydro Electric Plant 110 MW 28.05.2018 7. Tuirial Hydro Electric Plant 60 MW 30.01.2018 8. Kameng Hydro Electric Plant 600 MW 12.02.2021 9. Assam Gas Based Power Plant 291 MW 01.04.1959 10. Agartala Gas Turbine Combined Cycle Power Plant 135 MW 01.09.2015 11. Tripura Gas Based Power Plant 101 MW 31.3.2017
(b) Capacity in MW	2051 MW
(c) Date of commercial operation	As mentioned at Sl. 5(a) above.
(d) Period for which fee paid	Financial Year 2024-25
(e) Amount of fee paid	Rs.90,28,800.00 (Rupees Ninety Lakhs Twenty Eight Thousand Eight Hundred) only
(f) Surcharge, if any	
6. Details of transmission assets (a) Transmission line and sub-stations (b) Date of commercial operation (c) Period for which fee paid (d) Amount of fee paid (f) Surcharge, if any	Not Applicable
7. Fee paid for Adoption of tariff for (a) Generation asset (b)Transmission asset	Generation asset
8. Application fee for licence (a) Trading licence (b) Transmission licence (c) Period for which paid (d)Amount of fee paid	Not Applicable
9. Fees paid for Miscellaneous Petition	Not Applicable
10. Fees paid for Interlocutory Application	Not Applicable
11.Fees paid for Regulatory Compliance	Not Applicable
12.Fees paid for Review Application	Not Applicable
13. Licence fees for Inter-State Trading (a) Category (b) Period (c) Amount of fee paid (d) Surcharge, if any	Not Applicable
14. Licence fees for Inter-State Transmission (a) Expected/Actual transmission charge (b) Period (c) Amount of fee calculated as a percentage of transmission charge. (d)Surcharge, if any	Not Applicable
15. Annual Registration Charge for Power Exchange/OTC Platform (a) Period (b) Amount of turnover (c) Fee paid (d)Surcharge, if any	Not Applicable
16. Details of fee remitted (a) Transaction Id, Reference no./Payment Id (b) Date of remittance (c) Amount remitted	Payment through the SAUDAMINI e-Bill portal 10th April 2024 Rs.90,28,800.00 (Rupees Ninety Lakhs Twenty Eight Thousand Eight Hundred) only
Note: While Sl.No.1 to Sl. No. 3 and Sl. No. 16 are compulsory, the rest may be filled up as applicable	
Signature of the authorized signatory with date	

(ए. के. तिवारी)
कार्यपालक निदेशक (वाणिज्यिक)
Executive Director (Comml)
नीपको लि., शिलांग
NEEPCO Ltd., Shillong

ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(मिनि रत्न, कैटेगरी-I, भारत सरकार का उद्यम)
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
(A Mini Ratna, Category-I, A Govt. of India Enterprise)
COMMERCIAL DEPARTMENT

No.: NEEPCO/ED(COMML)/F-41/2024-25/ 42 Dated 10.04.2024

The Secretary,
Central Electricity Regulatory Commission,
3rd and 4th Floor, Chanderlok Building,
36, Janpath, New Delhi - 110001. Date: 20.04.2023

Sub : Payment of Annual Application Fees for Determination of Tariff for Financial Year 2024 - 25.

Sir/Madam,

In compliance of Regulation 3 (Fee for Application for Determination of Tariff) of the Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2012, the Application Fees of amount of Rs.90,28,800.00 (Rupees Ninety Lakhs Twenty-Eight Thousand Eight Hundred) only payable for the Financial Year 2024 - 24 in respect of the following generating stations of N EEPCO:

Name of Generating Station	Installed Capacity (MW)	Applicable fees (Rs.)
Kopili Hydro Electric Plant	200	8,80,000
Kopili II Hydro Electric Plant	25	1,10,000
Khandong Hydro Electric Plant	50	2,20,000
Doyang Hydro Electric Plant	75	3,30,000
Ranganadi Hydro Electric Plant	405	17,82,000
Pare Hydro Electric Plant	110	4,84,000
Tuirial Hydro Electric Plant	60	2,64,000
Kameng Hydro Electric Plant	600	26,40,000
Assam Gas Based Power Plant	291	12,80,400
Agartala Gas Turbine Combined Cycle Power Plant	135	5,94,000
Tripura Gas Based Power Plant	101	4,44,400
Total	**2052**	**90,28,800**

The duly filled in Form - I is enclosed herewith and the application fees deposited through the SAUDAMINI e-filing portal as stipulated vide Public Notice of the CERC dated 27.5.2021.

Thanking you,

10.04.2024

Executive Director
O/o the Executive Director (Commercial),
NEEPCO Ltd., Shillong-793003

Executive Director (Comml)
NEEPCO Ltd., Shillong

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स नं./Fax No. : 0364-2226095
वेबसाइट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U4010ML1976GOI001658
स्वहित एवं राष्ट्रहित में ऊर्जा बचाएं / Save Energy for Benefit of Self and Nation

Clarke Energy®
A KOHLER COMPANY

Engineer - Install - Maintain

Date:22.08.2023

Reference: CEIPL/NEEPCO/2023-2024/WL-103.

To,

Station Facilities Complex
AGBP, NEEPCO LTD,
Bokuloni, Dist.: Dibrugarh
Assam: 786191 (India)
Ph No, 0374-2825216 / 392

Subject: Support letter on Life Cycle of Waukesha's Engine Model 12V275GL+ Installed at AGBPS, NEEPCO LTD.

Kind Attn: Shri. Bhupendra Goswami - CGM(E/M), HOP

Reference: Your letter Neepco/AGBPS/HOP/2023-24/W-10/131 dtd 25.07.2023

Dear Sir,

We confirm that life of below listed engines will be 15 years with effect from 22.08.2023. This life is subject to –

- Adherence to Waukesha's maintenance schedule with Waukesha genuine parts and maintenance is carried out by Waukesha trained technicians.
- Consideration that upgrades due to changing part design, technology, controls, and obsolescence as suggested by Waukesha are implemented.

Unit Name	Engine type	Engine Serial Number	Approx Engine Running Hrs likely to be on 22nd August 2023.
Unit#1	12V275GL+	5283702943	55180
Unit#2	12V275GL+	5283702964	58280
Unit#3	12V275GL+	5283702942	55349
Unit#4	12V275GL+	3233586	24452

Clarke Energy India Pvt Ltd
Shivkiran, Plot No.169,
CTS No. 632, Lane No.4
Dahanukar Colony, Kothrud,
Pune 411038, India

Tel. +9120 30241777
India@clarke-energy.com
www.clarke-energy.com

INNIO JENBACHER Waukesha
Distributor & Service Provider

We hope the above clarification is in line with your requirement. Kindly feel free to contact us if you have any questions.

Yours sincerely
For **CLARKE ENERGY INDIA PVT. LTD.**

Atul Herlekar

Digitally signed by Atul Herlekar
Date: 2023.08.22 17:40:28 +05'30'

Authorized Signatory

F. No. 23/23/2020-R&R/RCM
Government of India
Ministry of Power
(RCM Division)

Shram Shakti Bhawan, Rafi Marg
New Delhi, dated the 20th of April 2023

To

1.Chairperson, CEA
2.ACS/Principal Secretary/Secretary (Energy/Power) of all States/UTs
3.Secretary, CERC
4.Secretaries of all SERCs/JERCs
5.CMD/MDs of all GENCOs

Subject: Scheme for Pooling of Tariff of those plants whose PPAs have expired - reg.

Sir,

At present, the annual electricity demand and the peak demand in the country is around 1400 BUs and 216 GW, respectively, and the peak demand is growing at an annual rate of around 6%. It is also a fact that the country is advancing along the path of energy transition from fossil fuel to non-fossil fuel. During April-May 2022 challenges were faced in meeting increasing demand. With the support of all stakeholders including all states, the challenges were handled successfully. However, the systems need to be restructured to meet future challenges.

2. As per National Electricity Plan, the projected electrical energy requirement and peak electricity demand on all-India basis is estimated as 1908 BU and 277 GW for year 2026-27 and 2474 BU and 366 GW for year 2031-32, respectively. This will require a total capacity addition of around 212 GW in the Power sector during 2022-27 and about 292 GW during 2027-32, against the present installed capacity of about 412 GW. The total fund requirement for investment during the period 2022-2027 is estimated to be around Rs. 14.5 Lakh Crores. The total fund requirement for investment during the period 2027-2032 has been estimated to be around Rs.19.06 Lakh Crores. Apart from this the successful integration of 365 GW Solar and 122 GW Wind planned by 2031-32 will require large quantum of storage capacity in the electrical grid. In such a scenario, it is essential that the generation capacity available in the country at present is utilized optimally. The available Gas based capacity is also required to be kept operational to meet the flexibility requirement and for peaking support at least during the crisis period.

3. With the objective to facilitate the States to optimize their electricity generation/availability portfolio, Ministry of Power, considering the request of the States, vide guidelines dated 22.03.2021, allowed the States to exit from PPAs with Central Power Sector Utilities after the expiry of the PPA period. Thereafter, many States/ Distribution companies exited from PPAs of costlier plants (non-pit head coal stations and Gas based thermal generating station), while retaining the PPAs of

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cheaper plants. This trend may be detrimental to the resource adequacy in the power system.

4. The Government is committed to promote non-fossil fuel-based generation and the efforts to promote RE generation are being taken. However, in this stage of energy transition, it will not be wise to let go off the resources that are already available in hand and whose capex has been substantially recovered. Even with generation capacity two times of the demand, the demand - supply situation of electricity becomes tight for some periods in the crunch months. The development of balancing resources as ESS will take a while for full deployment and it is very expensive presently. While PSPs are limited by their gestation period of at least 5 to 7 years the Batteries are limited by their ability to be commercialized and availability of raw materials. Despite significant quantum of Renewables in the grid, it would be difficult to meet peak demand without conventional sources, in near future.

5. In case of shutdown of existing but without offtake arrangements thermal generation plants, following scenarios / options emerge:

i. Additional investments for new thermal capacity addition for meeting the balancing and peaking requirements. Investment in such additional capacity would need to be serviced for further 25 years by payment of depreciation, interest on loan and other elements of tariff. Further, there may be requirement to support their technical minimum during off-peak hours for their useful life. All these costs would have to be eventually borne by the end consumers.

ii. Installation of larger capacities of BESS/PSP will be required to provide for balancing requirements. Deployment of BESS in large quantum is dependent on factors as high capital costs, availability of critical raw material, production batteries or on imports – all adding to uncertainty in balancing resources. Development of PSPs has its own challenges.

Further, both the above options are much costlier as compared to continued operation of these well-maintained generation plants with almost all the investment cost paid.

6. In view of long gestation period required for the construction of new thermal capacities and impending retirement of old inefficient thermal plants, it would be prudent to continue to operate the existing efficient thermal capacities of CPSUs whose PPAs have expired, but have remaining operational life, deferring the capital expenditure required for creation of new capacities. It is required to ensure continued operation of these gas-based power plants to provide peaking /balancing power for smoother and affordable energy transition towards RE & for Resource Adequacy.

7. It is noteworthy to mention that many thermal units in India and the world are operating efficiently much beyond 25 years. Further, it is a known fact that due to better O&M practices, the generating stations of CPSUs are operating at full capacity even after completion of 25 years of the useful life as per the norms specified by CERC. These constitute a well-balanced pool of thermal stations comprising of pithead coal stations for catering to the base load, non-pithead coal stations and gas

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stations to meet peak demand and provide much required cycling and balancing services required for smooth RE integration. Gas stations are important to grid operation as they are capable of fast ramping operations and best suited for flexing. CPSU gas stations are being frequently utilized in providing ancillary services for reliable grid operation. The selective approach adopted by the procurers, who are exiting from PPAs, may lead to the shutdown of significant thermal capacities especially the Gas based capacities, which would be detrimental to the power sector.

8. As the stations of 25 plus years have their capex recovered, fully depreciated, debt free, Fuel Supply Agreement (FSAs) in place, and well-maintained, power at competitive tariffs can be made available to the beneficiaries from these stations. Accordingly, to utilize these capacities, it has been decided to pool power from all Central Generating Station (CGSs) whose PPAs have expired, and such pooled power shall be made available to willing beneficiaries. The willing beneficiaries will have to enter PPA for a duration of a minimum of 5 years. Discoms not finding value in pooling will be able to opt out from the pool after 5 years.

9. The measure will ensure availability of adequate resources in the grid for peaking, balancing, and flexing and re-distributing benefits such as reliability, cost-effectiveness among the beneficiaries. A detailed mechanism in this regard finalized after consultation with States and other stakeholders (Draft scheme was circulated on 15th November, 2022, comments received have been examined and a meeting was also held with States on 20th February, 2023) is enclosed. All the concerned organizations shall take necessary action to implement the scheme w.e.f. 1st July, 2023.

10. This issues with the approval of **Hon'ble Minister of Power and New & Renewable Energy**.

20/4/23

(Suresh Annepu)
Director (RCM)
Tel: 011-23717137

Copy for information to:

1. PS to Hon'ble Minister of Power & NRE
2. APS to Hon'ble Minster of State for Power
3. Sr. PPS to Secretary, Ministry of power
4. PPS to Joint Secretary (Thermal)
5. PSO to CE (R&R)/ PPS to Director (RCM), Ministry of Power

Copy To: Technical Director, NIC for uploading on Ministry's website under 'New Notices' with the heading "**Scheme for Pooling of Tariff of those plants whose PPAs have expired**"

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Bharat Heavy Electricals Limited-HPEP
(A Govt. of India Undertaking)
Ramachandrapuram - Hyderabad - 502032
Dept. : Turbine & Compressors Engineering

Azadi Ka Amrit Mahotsav

Date 12.09.2023

To,
Sri Bhupendra Goswami,
ED(T) & Head of Plant,
AGBPS, NEEPCO Ltd,
PO: Bokuloni Chariali, Dibrugarh,
Assam.

Ref: 1) Your letter NEEPCO/AGBPS/HOP/2023-24/W-8(A)/243 dated 25/07/2023.
2) Your e-mail Dtd 04.09.2023

Subject: Life extension of Steam Turbines installed at AGBPS (NEEPCO)

Dear Sir,

This has reference to your e-mail dated 04.09.2023 on the subject. We would like to inform that by carrying out an assessment study and retrofitting of steam turbine, it is possible to extend the life of the power plant equipments (Steam turbine generator & its support systems) to another 15 years.

Please find below a list of the activities that are envisaged during this assessment study:

- Physical condition of the components/systems
- Performance of the components/systems
- Life cycle support availability/obsolesce considering next 15 years operation.
- RLA study of steam turbine components

Thanking you,

(M Rajeswara Rao)

M. RAJESWARA RAO
Add. General Manager / Turbine & Compressors Engg.
BHEL-HYD-502

Bharat Heavy Electricals Limited

Heavy Power Equipment Plant,
Ramachandrapuram, Hyderabad - 500 032. (INDIA)
PHONE:OFF : +91-40-23185494
e-mail : madhusudan@bhel.in

Madhusudan
Add. GENERAL MANAGER
Gas Turbine Engineering

Date 05.09.2023

To,
Sri Bhupendra Goswami,
ED (T) & Head of Plant
AGBPS, NEEPCO Ltd,
PO: Bokuloni Chariali, Dibrugarh,
Assam

Ref: 1) Your letter NEEPCO/AGBPS/HOP/2023-24/W-8(A)/132 dated 25/07/2023.
2) Our Letter Dtd 26.08.2023
3) Your e-mail Dtd 04.09.2023

Subject: Life Extension of equipment installed at AGBPS.

Dear Sir,

This has reference to your e-mail Dtd 04.09.2023 on the subject. We would like to inform that by following the approach and carrying out the study/activities mentioned in our letter dated 26th-Aug-2023, it is possible to extend the life of the power plant equipment (gas turbine generator & its support systems) to another 15 years.

Please find below a gist of the activities that are envisaged during this assessment study:

- Physical condition of the components/ systems
- Performance of the components / systems
- Life cycle support availability / obsolesce considering next 15 years operation

Thanking you,

(Madhusudan)
మధుసూదన్ -मधुसूदन
MADHUSUDAN
अपर महाप्रबंधक / गैस टरबाईन अभियांत्रिकी एवं प्रौद्योगिकी
Addl.General Manager / Gas Turbine Engineering & Technology
भी एच ई एल-एचईपी, हैदराबाद 32, BHEL-HPEP, HYD-32

CC:
1) Mr. Kolusu Venkatasyamkumar, BGGTS
2) Mr. Anshu Bhatnagar, GM, SSBG (R&M Thermal), BHEL

Mitsubishi Corporation
3-1, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO 100-6086, JAPAN

Date: September 8, 2023
Ref.: MTD/XA-F999

North Eastern Electric Power Corporation Ltd.
(A Government of India Enterprise)
Assam Gas Based Power Project
Bokuloni, Dist, Dibrugarh, Assam, PIN – 786-191

Kind Attn: Mr. Bhupen Goswami / ED (T) & HOP

Subject: Life Extension of Gas Turbines at NEEPCO Assam Power Station

Dear Sir,

With reference to the captioned subject, we are pleased to submit you the following letter as per the attached.

Item	Title	Ref. No.
1	Life Extension of Gas Turbines at NEEPCO Assam Power Station	Ref.: TGSC23-0012

If you have any questions to the above, please do not hesitate to contact us.
Thank you for your kind attention to the above.

Very truly yours,
MITSUBISHI CORPORATION

Arihiro Nakamura
General Manager
Infrastructure Projects Dept.

MITSUBISHI HEAVY INDUSTRIES

Date: September 5th, 2023
Ref.: TGSC23-0012

North Eastern Electric Power Corporation Ltd.
(A Government of India Enterprise)
Assam Gas Based Power Project
Bokuloni, Dist. Dibrugarh, Assam, PIN – 786-191

Kind Attn: Mr. Bhupen Goswami / ED (T) & HOP

Subject: Life Extension of Gas Turbines at NEEPCO Assam Power Station

Dear Sir,

With reference to the captioned subject, we (Mitsubishi Heavy Industries, Ltd.) recognize that Gas Turbines which installed at NEEPCO Assam Power Station as Original Equipment Manufacturer (OEM) may be able to life extension by 15 years if NEEPCO Assam Power Station follows the guidance of the OEM, perform proper maintenance, and replace parts.

Very truly yours,

K. Hirai

Kozo Hirai / Engineering Manager
Takasago Service Engineering Department
GTCC Business Division
Energy Systems
Mitsubishi Heavy Industries, Ltd.

Mitsubishi Heavy Industries, Ltd.
Marunouchi Nijubashi Bldg., 3-2-3 Marunouchi, Chiyoda-ku, Tokyo, 100-8332, Japan
Tel +81-000-0000-0000
Brand Magazine: spectra.mhi.com

MOVE THE WORLD FORWARD MITSUBISHI HEAVY INDUSTRIES GROUP

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम) पंजीकृत कार्यालय : दुलियाजन, आसाम
Oil India Limited
(A Government of India Enterprise) Registered Office : Duliajan, Assam

DULIAJAN-786 602, ASSAM
TEL : +91 374-2800525
FAX : +91-374-2800433
CABLE : OIL INDIA
e-mail : rce@oilindia.in

Ref. No.:RCE:03-395

Date: 22.09.2023

Sri Bhupendra Goswami
ED (T) & HOP, AGBPS
NEEPCO LIMITED

Sub : Natural Gas Availability for NEEPCO's Bokuloni Power Plant
Ref : NEEPCO/AGBPS/HOP/2023-24/T-9/30 dt. 25/07/2023

Sir,

We acknowledge the significance of the Gas based Power Station at Bokuloni and NEEPCO's long-standing partnership with Oil India Limited.

2.0 In response to your request, we hereby affirm that based on OIL's existing reserve estimates, Natural Gas shall be available for supply to NEEPCO at the rate of 1.4 MMSCMD for the next 10 years, effective until the year 2032-33.

3.0 This assurance is contingent upon:

3.1 The continuation of the existing gas allocation by Ministry of Petroleum and Natural Gas (MoP&NG).

3.2 Adherence to the guidelines/notifications regarding domestic natural gas issued by the Govt. of India/MoP&NG from time to time.

3.3 The mutual agreement and execution of a new Gas Sale and Purchase Agreement (GSPA) between NEEPCO Ltd. and Oil India Limited, to be negotiated as the existing GSPA expires in June 2025.

4.0 We will be able to provide assurances for longer-term gas availability as our field development plans evolve and are updated.

Thanking you.

Yours sincerely,
OIL INDIA LIMITED

(Atindra Roychoudhury)
Resident Chief Executive

EE979779711IN IVR:696897977597I
SPP BASANT LOK BNPL SP HUB (11
Counter No:38,04/11/2024,16:17
To:MEMBER SECRET,NDVFC COMPLEX
PIN:793006, Nynjan S.O
From:NORTH EASTE,15,NBCC TOWER UG
Wt:2356gms
Amt:283.20,Tax:43.20,Amt.Paid:283.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EE979779289IN IVR:696897977628
SPP BASANT LOK BNPL SP HUB (11
Counter No:38,04/11/2024,16:17
To:THE CHAIRMAN ,BIJULEE BHAWA
PIN:781001, Guwahati G.P.O.
From:NORTH EASTE,15,NBCC TOWER UG
Wt:2326gms
Amt:283.20,Tax:43.20,Amt.Paid:283.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EE979779684IN IVR:696897977669
SPP BASANT LOK BNPL SP HUB (11
Counter No:38,04/11/2024,16:17
To:CHIEF ENGINEE,3RD FLOOR NEA
PIN:795001, Imphal H.O
From:NORTH EASTE,15,NBCC TOWER UG
Wt:2346gms
Amt:283.20,Tax:43.20,Amt.Paid:283.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EE979779768IN IVR:696897977676
SPP BASANT LOK BNPL SP HUB (11
Counter No:38,04/11/2024,16:17
To:THE CHAIRMAN ,SHORT ROUND RO
PIN:793001, Shillong G.P.O.
From:NORTH EASTE,15,NBCC TOWER UG
Wt:2246gms
Amt:283.20,Tax:43.20,Amt.Paid:283.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EE979779187IN IVR:696897977618
SPP BASANT LOK BNPL SP HUB (11
Counter No:38,04/11/2024,16:17
To:POOL,GENERAL ,TRIPURA STATE
PIN:799001, Agartala H.O
From:NORTH EASTE,15,NBCC TOWER UG
Wt:2346gms
Amt:283.20,Tax:43.20,Amt.Paid:283.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EE979779717IN IVR:696897977171

SPP BASANT LOK BNPL SP HUB (11
Counter No:38,04/11/2024,16:17
To:GENERAL MANAG,CENTRE SECRET
PIN:793006, Nynjan S.O
From:NORTH EASTE,15,NBCC TOWER UG
Wt:2346gms
Amt:283.20,Tax:43.20,Amt.Paid:283.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EE979779851IN IVR:696897977591
SPP BASANT LOK BNPL SP HUB (11
Counter No:38,04/11/2024,16:17
To:CHIEF ENGINEE,GOVT.OF ARUNA
PIN:791111, Itanagar H.O
From:NORTH EASTE,15,NBCC TOWER UG
Wt:2376gms
Amt:283.20,Tax:43.20,Amt.Paid:283.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EE979779898IN IVR:696897977689
SPP BASANT LOK BNPL SP HUB (11
Counter No:38,04/11/2024,16:17
To:CHIEF ENGINEE,GOVT.OF NAGAL
PIN:797001, Kohima H.O
From:NORTH EASTE,15,NBCC TOWER UG
Wt:2386gms
Amt:283.20,Tax:43.20,Amt.Paid:283.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

EE979779622IN IVR:696897977622
SPP BASANT LOK BNPL SP HUB (11
Counter No:38,04/11/2024,16:17
To:CHIEF ENGINEE,(NWLPED)HQ NCK
PIN:796005, Kolasib S.O
From:NORTH EASTE,15,NBCC TOWER UG
Wt:2388gms
Amt:283.20,Tax:43.20,Amt.Paid:283.00(Cash)
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)