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/37/403 दिनांक/Dated 12.11.2024

सेवा में/To,

सचिव/The Secretary

केंद्रीय विद्युत विनियामक आयोग/Central Electricity Regulatory Commission

तीसरी एवं चौथी मंजिल/3rd & 4th Floor,

चंद्रलोक 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 Doyang Hydro Power Station (3x25 MW), hereinafter referred to as **DHPS**, of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong. **(b)** Truing up exercise for determination of **shortfall of energy charges** beyond the control of the Generating Station during 2019-24 and **(c) Determination of Tariff** for the period 01.04.2024 to 31.03.2029.

महोदय /Dear Sir,

This has reference to the above, Please find enclosed Petitions in respect of Doyang Hydro Power Station (3x25 MW) (hereinafter reffered to as DHPS) 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 DHPS.

This is for kind consideration of the Honourable Commission.

धन्यवाद/Thanking you,

भवदीया/Yours faithfully,

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

संलग्नक: यथोक्त/Enclo: As above

दिनांक/Dated: 12.11.2024

ज्ञापन सं-/CA/37/404-412

1.अध्यक्ष, असम पावर डिस्ट्रीब्यूशन कंपनी लिमिटेड, "बिजुली भवन", पलटनबाजार, गुवाहाटी 781 001, असम।

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

2.अध्यक्ष एवं प्रबंध निदेशक, मेघालय विद्युत वितरण निगम लिमिटेड, मीटर फैक्ट्री क्षेत्र, शॉर्ट राउंड रोड, एकीकृत कार्यालय परिसर, शिलांग - 793001, मेघालय।

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

3.अतिरिक्त. महाप्रबंधक, वाणिज्यिक एवं सिस्टम ऑपरेशन, त्रिपुरा राज्य विद्युत निगम लिमिटेड, विद्युत भवन, उत्तरी बनमालीपुर, अगरतला -799 001, त्रिपुरा।

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

4.मुख्य अभियंता, बिजली और बिजली विभाग, मिजोरम सरकार, नया सचिवालय परिसर, कव्लफेथा, आइजोल - 796001, मिजोरम।

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

5.प्रबंध निदेशक, मणिपुर राज्य विद्युत वितरण कंपनी लिमिटेड, इलेक्ट्रिकल कॉम्प्लेक्स, खवाई बाजार, कीशमपत, इंफाल-795001, मणिपुर।

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

6.मुख्य अभियंता (विद्युत), विद्युत विभाग, विद्युत भवन, अरुणाचल प्रदेश सरकार, ईटानगर-791111, अरुणाचल प्रदेश।

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

7.मुख्य अभियंता (विद्युत), विद्युत विभाग, नागालैंड सरकार, कोहिमा - 797001, नागालैंड।

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

8.सदस्य सचिव, उत्तर पूर्वी क्षेत्रीय विद्युत समिति, एनईआरपीसी कॉम्प्लेक्स, डोंग पमॉव, लापालांग, शिलांग-793006, मेघालय।

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

9.महाप्रबंधक, उत्तर पूर्वी क्षेत्रीय लोड डिस्पैच सेंटर, डोंगटीह, लोअर नोंगरा, 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-DL97457260758769V
Certificate Issued Date	:	17-Nov-2023 11:48 AM
Account Reference	:	IMPACC (IV)/ dl754903/ DELHI/ DL-DLH
Unique Doc. Reference	:	SUBIN-DLDL75490359895751450502V
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 ★ GOVT. OF INDIA ★ Regn. No. 6030 Expiry NOV.2027

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 Doyang Hydro Power Station (3x25 MW), hereinafter referred to as **DHPS**, of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong. **(b)** Truing up exercise for determination of **shortfall of energy charges** beyond the control of the Generating Station during 2019-24 and **(c) Determination of Tariff** for the period 01.04.2024 to 31.03.2029.

1. The genuineness of this Stamp certificate should be verified at www.shcilestamp.com/ or using e-Stamp Mobile App of Stock Holding
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

VERIFICATION:

Verified at New Delhi on 12.11.2024, 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.

NOTARY PUBLIC GOVT. OF INDIA

ATTESTED
NOTARY PUBLIC INDIA
13 NOV 2024

BEFORE THE HONB'LE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION NO: /2020

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

(a)Chapter-3 Regulation 13 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for 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

and

(b) Chapter-11 Regulation 65 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 of truing up exercise for determination of shortfall of energy charges beyond the control of the Generating Station during 2019-24 which has already been billed to Respondent no-1

and

(c) Chapter-3 Regulation 9 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 Doyang Hydro Power Station (75 MW) (hereinafter referred to as **DHPS**) 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 (Erstwhile Assam State Electricity Board) "Bijulee Bhawan", Paltanbazar Guwahati - 781 001 and 8 (eight) others

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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

(a)Chapter-3 Regulation 13 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for 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 and

(b) Chapter-11 Regulation 65 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 of truing up exercise for determination of shortfall of energy charges beyond the control of the Generating Station during 2019-24 which has already been billed to Respondent no-1 and

(c) Chapter-3 Regulation 9 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 Doyang Hydro Power Station (75 MW) (hereinafter referred to as **DHPS**) 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. 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

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 Headquarters at Shillong, Meghalaya.

2. The Petitioner is having power stations/projects at different states/locations of the North Eastern Region of the country. The Doyang Hydro Power Station (75 MW) (hereinafter referred to as **DHPS)** is one of such generating stations located at "Wokha District of Nagaland" having an installed capacity of 75 MW.

3. The project comprises of three units of 25 MW capacity each and is a run of the river scheme with pondage having a Head Race Tunnel and a surface Powerhouse with a corresponding reservoir. The date of commercial operation of the units/station is as under:

Units	Actual COD
I	29.06.2000
II	05.07.2000
III / Generating Station	08.07.2000

4. It is submitted that the electricity generated from **DHPS** is being supplied to the respondents 1-7 mentioned herein above.

5. The Annual Design Energy of the **DHPS** is 227.24 MU.

6. The Hon'ble Commission has determined the tariff of **DHPS** 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 11.05.2022 in Petition No. 232/GT/2020 in accordance with the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019.- **Annexure-B.**

7. **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. **64768.35 lakh** .

8. **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.

9. The petitioner has capitalized various expenditures incurred during the FYs 2019-24 in the books of **DHPS**. 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.

10. The application is made before the Hon'ble Commission for revision of tariff for the **DHPS** 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 11.05.2022 in Petition No. 232/GT/2020.

(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.

(iv) All Audited statements related to the Tariff Forms for the period of 2019-24 **Annexure -G.**

(v) All PO copies , work completion certificates and other supporting documents are given in **Annexure-H.**

11. 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.

12. **Security expenses**: As per paragraph no. 35 of Tariff Regulation 2019, Security Expenses for hydro 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. 458.02 lakh is detailed in **Annexure-A** has been submitted by the petitioner for truing up.

FINANCIAL YEAR	AMOUNT (in Rs. Lakh)
2019-20	1545.956
2020-21	1770.080
2021-22	1453.234
2022-23	1555.260
2023-24	1796.496

13. **Capital Spares**: As per paragraph no. 35 of Tariff Regulation 2019, Security Expenses for hydro 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. 586.06 lakh is detailed in **Annexure-A** has bene submitted by the petitioner for truing up.

14. 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 -C**).

15. 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 **DHPS**, 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) Allow recovery of filing fees relating to the period of 2019-24 from the beneficiaries as and when the same paid to the Hon'ble Commission.

(v) 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:

IT IS RESPECTFULLY SUBMITTED BY THE PETITIONER:

b) Truing up exercise for determination of shortfall of energy charges beyond the control of the Generating Station during 2019-24

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 Chapter-11 Regulation 65 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 of truing up exercise for determination of shortfall of energy charges beyond the control of the Generating Station during 2019-24 In respect of Doyang Hydro Power Station (75 MW) (hereinafter referred to as **DHPS**) during 2019-24 of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong. (which has already been billed to Respondent no-1)

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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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 Chapter-11 Regulation 65 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 of truing up exercise for determination of shortfall of energy charges beyond the control of the Generating Station during 2019-24 in respect of Doyang Hydro Power Station (75 MW) (hereinafter referred to as **DHPS**) during 2019-24 of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong. (which has already been billed to Respondents no-1to 7)

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,
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   Meter Factory area, Short Round Road,
   Integrated Office Complex,
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   Bidyut Bhavan, North Banamalipur,
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Kohima -797001, Nagaland.

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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:

Truing up exercise for determination of shortfall of energy charges beyond the control of the Generating Station during 2019-24

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 Chapter-11 Regulation 65 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 of truing up exercise for determination of shortfall of energy charges beyond the control of the Generating Station during 2019-24 In respect of Doyang Hydro Power Station (75 MW) (hereinafter referred to as **DHPS**) during 2019-24 of North Eastern Electric Power Corporation Limited (NEEPCO), Shillong. (which has already been billed to Respondent no-1)

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 Headquarters at Shillong, Meghalaya.

2.The Petitioner is having power stations/projects at different states/locations of the North Eastern Region of the country. The Doyang Hydro Power Station (75 MW) (hereinafter referred to as **DHPS**) is one of such generating stations located at "Wokha District of Nagaland" having an installed capacity of 75 MW.

3. Regulation 65(7&8) of the CERC (Terms and Conditions of Tariff) Regulations, 2024, allows the recovery of shortfall in energy charges for reasons beyond the control of generating stations during the tariff period 2019-24 directly from the beneficiaries. The relevant Regulations are as follows: -

"65(7)In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.

Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating 120 station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station."

"65(8)Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation. "

In the previous Tariff Regulations 2019-24, filing of petitions for recovery of shortfall of energy charges was necessary. In the present Tariff Regulations 2024-29, commission has given liberty to the generating stations to directly recover the shortfall of energy. However, the recovery amount will be subject to truing up at the end of the tariff period.

Commission in its recent order dtd. 20.01.24 on various Petitions of NHPC allowed recovery of shortfall of energy charges of hydro stations for the tariff period 2019-2021.

With the above-mentioned facts in the background and following the methodology in the order dtd, 20.01.24, NEEPCO has calculated the recovery of shortfall of energy charges for the period from 2019 to 2014 for reasons beyond the control of the generating station.

In case of Doyang Power Station the following factors have been taken into consideration as un controllable :-

1)Less Inflow of water w.r.t Design flow

2)Less Schedule (i.e. URS -Difference between DC & Schedule.)

3)Transmission Constraints

1)Less Inflow of water w.r.t Design flow:-

We have gathered the following data for each day of the respective financial years to ascertain the uncontrollable factors of Less Inflow of water w.r.t Design flow :-

a) Water inflow data b)Actual Generation data c) Outage data e) IMD data -**Annexure-D**

The following formulae have been used to calculate the maximum possible saleable ex-bus generation corresponding to actual inflows available during each day of a financial year.

Maximum possible saleable ex-bus generation for a day = Design energy for the day x Actual inflow (cumecs)x K1xK2/Design Inflow

Where K1 represents the multiplying factor to account for the Free Energy of 12% to home states, and K2 represents the multiplying factor to account for the auxiliary consumption. A summation of such derived values for the whole financial year represents the maximum possible saleable ex-bus generation for the year. Difference between the Saleable Ex bus design energy and maximum possible exbus energy is the shortfall/excess of generation on account of Inflow ofwater.

2) Less Schedule (i.e. URS -Difference between DC & 3) Schedule. & Transmission Constraints:-

For transmission constrains and URS the shortfall of energy is 0.05 Mu and O.71 Mu respectively.

Year wise shortfall of energy is calculated as per the following Table:-

ENERGY SHORTFALL BEYOND CONTROL OF THE GENERATING STATION							
Name of the station:-DHPS	Unit	Year					
Uncontrollable factors	MU	2019-20	2020-21	2021-22	2022-23	2023-24	Total
Maximum possible generation wrt to available flow	MU	218.42	249.82	132.61	216.88	188.09	
Design energy	MU	227.24	227.24	227.24	227.24	227.24	
1)Shortfall/Excess wrt to DE	MU	8.82	-22.58	94.63	10.36	39.15	
2)Energy Loss Due To Transmission Constraints	MU	0.05	0.00	0.00	0.00	0.00	
3)Less Schedule(i.e.URS - Difference between DC & ScH.)	MU	0.23	0.15	0.00	0.11	0.22	
Total	MU	9.10	-22.44	94.63	10.47	39.38	
Ex bus energy restricted	MU	7.91	-19.51	82.28	9.10	34.24	
DSM Energy	MU	2.39	1.96	1.99	2.04	1.33	
Net energy for shortfall calculation	MU	5.53		80.29	7.06	32.91	
ECR	Rs/KwH	3.077	3.168	3.265	3.375	3.486	
Recovery amount	Rs Cr.	1.70		26.21	2.38	11.47	41.77
Design Energy	MU	227.24	227.00	227.24	227.24	227.24	
Saleable Design Energy	MU	197.57	197.36	197.57	197.57	197.57	
Sch Energy	MU	172.17	196.92	94.58	170.11	157.75	
Free Power	MU	20.66	23.63	11.35	20.41	18.93	
Saleable sch Energy	MU	151.51	173.29	83.23	149.70	138.82	
Shortfall of energy	MU	46.07	24.07	114.34	47.87	58.75	
Recovery amount	Rs Cr.	14.17	7.63	37.33	16.16	20.48	95.77

Accordingly an amount of Rs 41.49 Cr was billed to all the beneficiaries on 30.04.202E being taken as 227.24 Mu against earlier 227.00 Mu . Invoice copy attached in **Annexure –E.**

Detailed Calculation sheet is enclosed as **Annexure-F.**

Petitiioner has submitted measured/calculated inflow data and rainfall maps from the Indian Metrological Department to HP & I Division , CEA for kind examination and certification in order for submission of true up Petition. **Annexure-K**

PRAYER

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

i) The Commission may kindly allow recovery of shortfall of energy charges amounting to Rs **41.77** Cr alongwith applicable interest .

ii) The Commission may kindly allow the revision of energy charges after revision of Annual Fixed Cost through trough true up exercise for 2019-24.

iii) Pass such other and further order / orders as are deemed fit and proper in the facts and circumstances of the case.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

THROUGH

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

IT IS RESPECTFULLY SUBMITTED BY THE PETITIONER:

c) 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 Chapter-3 Regulation 9 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

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**

INDEX

Sl. No.	Particulars	Page No.
1	Petition	
2	Affidavit	
3	Summary **(Tariff form)** of revised Annual Fixed Charges for the period of 2024-29 including additional capital expenditure to be incurred during the period and related forms there-to **Annexure -I.**	
4	PO copies and other supportings -**Annexure-J**	
5	Proof of payment of filing fees-**Annexure-C**	

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 Chapter-3 Regulation 9 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

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:

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 Chapter-3 Regulation 9 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

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 Headquarters at Shillong, Meghalaya.

2.The Petitioner is having power stations/projects at different states/locations of the North Eastern Region of the country. The Doyang Hydro Power Station (75 MW) (hereinafter referred to as **DHPS**) is one of such generating stations located at "Wokha District of Nagaland" having an installed capacity of 75 MW.

3. The project comprises of three units of 25 MW capacity each and is a run of the river scheme with pondage having a Head Race Tunnel and a surface Powerhouse with a corresponding reservoir. The date of commercial operation of the units/station is as under:

Units	Actual COD
I	29.06.2000
II	05.07.2000
III / Generating Station	08.07.2000

4.It is submitted that the electricity generated from **DHPS** is being supplied to the respondents 1-7 mentioned herein above.

5. The Annual Design Energy of the **DHPS** is 227.24 Mu.

6.The Hon'ble Commission has determined the tariff of **DHPS** 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 11.05.2022 in Petition No. Petition No. 232/GT/2020 in accordance with the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019.

7.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. 64768.35lakh .

The Petitioner has submitted final truing up Petition for **DHPS** 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 **DHPS** 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 **DHPS** 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	14664.26	15602.64	15897.30	16618.67	17404.73

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-I & J**

13. 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	1545.96

2025-26	1770.08
2026-27	1453.23
2027-28	1555.26
2028-29	1796.50

14. 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 - C).

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:

(vi) Approve the tariff in respect of **DHPS** 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.

(vii) Allow recovery of Security Expenses and Capital Spare .

(viii) 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.

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

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

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED

THROUGH

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

PART-II

Checklist of Forms and other information/ documents for tariff filing for Hydro Stations

Form No.	Title of Tariff Filing Forms (Hydro)	Tick
FORM- 1	Summary of Tariff	Yes
FORM -1 (I)	Statement showing claimed capital cost	Yes
FORM -1 (II)	Statement showing Return on Equity	Yes
FORM-2	Details of COD, Type of hydro station, Normative Annual Plant Availability Factor (NAPAF) & Other normative parameters considered for tariff calculation	Yes
FORM-3	Salient Features of Hydroelectric Project	Yes
FORM- 4	Details of Foreign loans	NA
FORM- 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	Yes
FORM-5A	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	NA
FORM-5B	Break-up of Capital Cost for Hydro Power Generating Station	NA
FORM-5C	Break-up of Capital Cost for Plant & Equipment	NA
FORM-5D	Break-up of Construction/Supply/Service packages	NA
FORM-5Ei	In case there is cost over run	NA
FORM-5Eii	In case there is time over run	NA
FORM- 6	Financial Package up to COD	NA
FORM- 7	Details of Project Specific Loans	NA
FORM- 8	Details of Allocation of corporate loans to various projects	NA
FORM-9A	Statement of Additional Capitalization after COD	Yes
FORM 9B	Statement of Additional Capitalization during end of the Project	NA
FORM 9Bi	Details of Asset De-capitalized during the period	Yes
FORM- 9C	Statement showing reconciliation of ACE claimed with the capital additions as per books	Yes
FORM- 9D	Statement showing items/assets/works claimed under Exclusions	Yes
FORM- 9E	Statement of Capital cost	Yes
FORM- 9F	Statement of Capital Woks in Progress	Yes

Form No.	Title of Tariff Filing Forms (Hydro)	Tick
FORM- 10	Financing of Additional Capitalization	Yes
FORM- 11	Calculation of Depreciation on original project cost	Yes
FORM- 12	Statement of Depreciation	Yes
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	Yes
FORM- 13A	Calculation of Interest on Normative Loan	Yes
FORM- 13B	Calculation of Interest on Working Capital	Yes
FORM- 13C	Non-Tariff Income	Yes
FORM- 13D	Incidental Expenditure during Construction	NA
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	Yes
FORM- 14A	Actual cash expenditure	Yes
FORM- 15A	Design energy and peaking capability (month wise)- ROR with Pondage/Storage type new stations	Yes
FORM- 15B	Design energy and MW Continuous (month wise)- ROR type stations	Yes
FORM- 16	Statement of Liability Flow	Yes
FORM- 17	Operation & Maintenance Expense	Yes
FORM- 18	Details of Statutory Charges	Yes
FORM- 19	Summary of issue involved in the petition	NA

PART-II
FORM- 1

Summary Sheet

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION
Place : Region - North Eastern Region
State -

Rs. In Lakh

S. No.	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	
1	2		3	4	5	6	7	
1.1	Depreciation	1162.84	933.00	949.07	964.16	964.27	1031.61	
1.2	Interest on Loan	0	0.00	0.00	0.00	0.00	0.00	No normative loan outstanding
1.3	Return on Equity [1]	4199.17	3991.72	4006.42	4013.75	4037.88	4056.92	
1.4	Interest on Working Capital	402.88	364.36	357.68	338.39	352.62	424.82	
1.5	O & M Expenses	5044.84	5664.57	5924.1	6208.47	6502.31	6812.24	As per order dtd 11.05.2022 in Petition no-232/GT/2020
1.6	ANNUAL FIXED COST BEFORE SECURITY EXPENSES, CAPITAL SPARES AND WATER CHARGES	10828.900	10943.857	11237.272	11512.764	11856.857	12325.591	
1.7	Security Expenses		1545.956	1770.000	1453.234	1656.280	1796.496	
1.8	Water Charges		0.000	0.000	0.000	0.000	0.000	
1.9	Capital Spares		0.000	0.000	102.983	433.204	50.448	
2	TOTAL AFC		12489.813	13007.352	13068.981	13845.321	14172.535	

Note:
1 Details of calculations, considering equity as per regulation, to be furnished.

(Petitioner)

2 28 2

PART-II
FORM- 1(I)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

Statement showing claimed capital cost-(A+B)

Rs. in Lakh

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Opening Capital Cost	64768.35	65130.21	65239.11	65444.40	66619.82
2	Add: Addition during the year/period	362.42	108.89	232.27	1368.34	22.78
3	Less: Decapitalisation during the year/period	0.56	0.00	0.00	192.93	26.77
4	Less: Reversal during the year/period	0.00	0.00	26.98	0.00	0.82
5	Add: Discharges during the year/period	0.00	0.00	0.00	0.00	21.58
6	Closing Capital Cost	65130.21	65239.11	65444.40	66619.82	66636.59
7	Average Capital Cost	64949.28	65184.66	65341.76	66032.11	66628.20

Statement showing claimed capital cost eligible for R.o.E at normal rate (A)

in Lakh

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Opening Capital Cost	64768.35	64809.49	64900.81	65034.81	66210.22
2	Add: Addition during the year/period	41.70	91.32	160.97	1368.34	0.00
3	Less: Decapitalisation during the year/period	0.56	0.00	0.00	192.93	26.77
4	Less: Reversal during the year/period	0.00	0.00	26.98	0.00	0.82
5	Add: Discharges during the year/period	0.00	0.00	0.00	0.00	21.58
6	Closing Capital Cost	64809.49	64900.81	65034.81	66210.22	66204.22
7	Average Capital Cost	64788.92	64855.15	64967.81	65622.52	66207.22

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

in Lakh

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Opening Capital Cost	0.00	320.72	338.30	409.59	409.59
2	Add: Addition during the year/period	320.72	17.57	71.30	0.00	22.78
3	Less: Decapitalisation during the year/period					
4	Less: Reversal during the year/period					
5	Add: Discharges during the year/period					
6	Closing Capital Cost	320.72	338.30	409.59	409.59	432.37
7	Average Capital Cost	160.36	329.51	373.94	409.59	420.98

(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 :	DOYANG HYDRO POWER STATION			
Place (Region/District/State):	North Eastern Region			

(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	32840.84	32,949.28	32,981.95	33,043.54	33,355.22
2	Less: Adjustment in Opening Equity	Rs Lakh	-	-	-	-	-
3	Adjustment during the year	Rs Lakh	-	-	-	-	-
4	Net Opening Equity (Normal)	Rs Lakh	32,840.84	32,949.28	32,981.95	33,043.54	33,355.22
5	Add: Increase in equity due to addition during the year / period	Rs Lakh	108.73	32.67	69.68	410.50	6.83
6	Less: Decrease due to De-capitalisation during the year / period	Rs Lakh	0.28	-	-	98.82	13.71
7	Less: Decrease due to reversal during the year / period	Rs Lakh	-	-	8.09	-	0.25
8	Add: Increase due to discharges during the year / period	Rs Lakh	-	-	-	-	6.48
9	Net closing Equity (Normal)	Rs Lakh	32,949.28	32,981.95	33,043.54	33,355.22	33,354.57
10	Average Equity (Normal)	Rs Lakh	32,895.06	32,965.62	33,012.75	33,199.38	33,354.90
11	Rate of ROE	%	12.117%	12.117%	12.117%	12.117%	12.117%
12	Total ROE	Rs Lakh	3,985.88	3,994.44	4,000.15	4,022.77	4,041.61

	Return on Equity (Base Rate) (f)	%	10%	10%	10%	10%	10%
	Effective Tax rate	%	17.472	17.472	17.472	17.472	17.472
	Rate of ROE	%	12.117	12.117	12.117	12.117	12.117

(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 :	DOYANG HYDRO POWER 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
	Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)					
1	Gross Opening Equity (Normal)	0.00	96.22	101.49	122.88	122.88
2	Less: Adjustment in Opening Equity					
3	Adjustment during the year					
4	Net Opening Equity (Normal)	0.00	96.22	101.49	122.88	122.88
5	Add: Increase in equity due to addition during the year / period	96.22	5.27	21.39	0.00	6.83
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)	96.22	101.49	122.88	122.88	129.71
10	Average Equity (Normal)	48.11	98.85	112.18	122.88	126.29
11	Rate of ROE	12.117	12.117	12.117	12.117	12.117
12	Total ROE	5.83	11.98	13.59	14.89	15.30

Rate of equity as per petition no. 456/GT/2014 dated 28.09.2015 (page no. 15)

(Petitioner)

PART-II
FORM-9C

Statement showing reconciliation of ACE claimed with the capital additions as per books

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION
COD

Sl No.	Particulers	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	65130.21	65239.11	65444.40	66619.82	66636.59
2	Add/Less: Adjustments	0.58	0.00	0.00	192.93	26.77
3	Closing Gross Block as per IGAAP	0	0	0	0	0
4	Opening Gross Block as per IND AS	64768.35	65130.21	65239.11	65444.40	66619.82
5	Add/Less: Adjustments					
6	Opening Gross Block as per IGAAP					
7	Total Additions as per books (1-2-4=7)	361.30	108.89	205.30	982.48	-10.00
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	361.30	108.89	205.30	982.48	-10.00
10	Less: Exclusions (Items not allowable / not claimed)	0	0	0	0	0
11	Net Additional Capital Expenditure Claimed (on accrual basis)	361.30	108.89	205.30	982.48	-10.00
12	Less: Undischarged Liabilities	0	0	0	0	0
13	Add:Discharge of undischarged liabilities corresponding to admitted assests/works	0	0	0	0	0
14	Net Additional Capital Expenditure Claimed (on cash basis)	361.30	108.89	205.30	982.48	-10.00

Note: Reason for exclusionof any expenditure shall be given in clear terms.

(Petitioner)

PART-II
FORM-2

Details of COD, Type of Hydro station, Normative Annual Plant Availability Factor (NAPAF) & Other normative parameters considered for tariff calculation

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

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)
1	Installed Capacity	MW	3X25					
2	Free power to home state	%	12					
3	Free power under Local Area development Fund (LADF)							
4	Date of commercial operation (actual/anticipated)							
	Unit - 1	08-07-2000						
	Unit - 2	05-07-2000						
	Unit - 3	29-06-2000						
5	Type of Station							
	a) Surface / underground		Surface					
	b) Purely ROR / Pondage / Storage		Storage					
	c) Peaking / non-peaking		Peaking					
	d) No. of hours of peaking		3Hours					
	e) Overload capacity (MW) & period		15MW					
6	Type of excitation							
	a) Rotating exciters on generator							
	b) Static excitation		Static					
7	Design Energy (Annual) [1]	GWh	227.24					
8	Auxiliary Consumption including Transformation losses	%	1.2					
9	Normative Plant Availability Factor (NAPAF)		70%					
9.1	Maintenance Spares for WC	% of O&M						
9.2	Receivables for WC	in Months						
9.3	Base Rate of Return on Equity	%	10					
9.4	Base Rate of Return on Equity on Add. Capitalization							
9.5	Tax Rate [2]	%						
9.6	Effective Tax Rate [4]		21.549	17.472	17.472	17.472	17.472	17.472
9.7	SBI Base Rate + 350 basis points as on ---------- [3]	%	13.5%	12.05%	11.25%	10.50%	10.50%	12.00%

1. Month wise 10 - day Design energy figures to be given separately with the petition.
2. Tax rate applicable to the company for the year FY 2018 - 19 should also be furnished.
3. Mention relevent 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)

PART-II
FORM-3

Salient Features of Hydroelectric Project

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

1. Location	
State / Distt.	Nagaland/Wokha
River	Doyang
2. Diversion Tunnel	
Size, shape	12.00 m dia. Horse shoe shaped
Length (M)	633.00 m
3. Dam	
Type	Rockfill with impervious core
Maximum dam height (M)	93.00 m from the deepest foundation
4. Spillway	
Type	Chute Spillway with an ogee shaped
Crest level of spillway (M)	El. 321.00 m
5. Reservoir	
Full Reservoir Level (FRL) (M)	El. 333.00 m
Minimum Draw Down Level (MDDL) (M)	El. 308.00 m
Live storage (MCM)	400.00 M Cum
6. De - silting Chamber	
Type	NA
Number and Size	NA
Particle size to be removed (mm)	NA
7. Head Race Tunnel	
Size and type	Circular with Steel lined
Length (M)	427.26 M
Design discharge (Cumecs)	150 Cumec
8. Surge Shaft	
Type	NA
Diameter (M)	NA
Height (M)	NA
9. Penstock / Pressure shafts	
Type	Lattice type butterfly valve
Diameter & Length (M)	2.90 m
10. Power House	
Installed capacity (No of units X MW)	3 x 25 MW
Type of turbine	Vertical Francis Turbine
Rated Head (M)	87.83 m
Rated Discharge (Cumecs)	32.87 Cumec
Head at Full Reservoir Level (M)	88.68 m
Head at Minimum Draw down Level (M)	68.68 m
HW Capability at FRL	75 MW
HW Capability at MDDL	25 MW (Firm Power)
11. Tail Race Tunnel / Channel	
Diameter (M), shape	20.00 m x 8.30 m
Length (M)	82.00 m
Minimum tail water level (M)	El. 249.50 m
12. Switchyard	
Type of Switch gear	Type: SF6,1050EM-32/40EC-BN19871 31.5 KA for 3 secs.
No. of generator bays	3
No. of Bus coupler bays	
No. of line bays	
Efficiency (overall) Turbine and generator	

Note : Specify limitation on generation during specific time period (s) on account of restrictions on water use due to irrigation, drinking water, industrial, environmental considerations etc.

(Petitioner)

PART - II
FORM - 5

Abstract of Admitted Capital Cost for the existing Projects.

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

Name of the Generating Station : DOYANG HYDRO POWER STATION

All values in Lakh

	Capital Cost as admitted by CERC	
a)	Capital Cost admitted as on **31/03/2019**	64768.35
	(Give reference of the relevant CERC Order with Petition No. & Date)	order dtd 31.3.2022 in Petition No. 293/GT/2019
b)	Foreign Component, if any (In Million US $ or the relevant Currency)	**NIL**
c)	Foreign Exchange rate considered for the admitted Capital cost (Rs Lakh)	**NIL**
d)	Total Foreign Component (Rs. Lakh)	**NIL**
e)	Domestic Component (Rs. lakh)	64768.35
f)	Hedging cost, if any, considered for the admitted Capital cost (Rs Lakh)	
	Total Capital cost admitted (Rs. Lakh) (d+e+f)	

(Petitioner)

PART-II
FORM- 9A

Year wise Statement I of Additional Capitalisation after COD
2023-24
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Petitioner :
Name of the Generating Station : DOYANG HYDRO POWER STATION
Case
For 2023-2024

Sl. No.	Head of Work/Equipment	a)Gross Amount Claimed (Actual/Projected)			IDC Discharged up to COD	Regulation under which claimed	Remarks	Allow by CERC & Spillover	Justification	Admitted Cost by the Commission, if any (In Lakh)
		Actual Liability (Rs. in Lakh)	Un-discharged Liability included in col.3 (Rs. in Lakh)	Cash basis						
1	2	3	4	5=3+4	6	7			8	9
2	2019-2024									
a	CERC Approved									
1	Fire Fighting Equipment Procurement of Fire Tender 4500 Litres	41.70	0.00	41.70		[illegible]	Approved cost by CERC Rs.40 Lakh	1.40 Lakh Allowed by CERC during 2024-25 & allowed for spillover during 2025-26 vide Petition No. 333/GT/2020 dated 13th May 2022 Page No.65	Proposal for procurement of fire tender 4500 ltr has been accorded and approved under ADB-CAP for the 2020 year @Rs.40.00 Lakh. However, the work could not be completed during the period 2019-20 due to changes in the technical specification and tenders. The capacity was altered to 3000 Litres. The tender was published by CEPSC on Spill Over Works during 2019-24. LOI was issued on 28.06.2019 and PVC was dated 30.08.2019. The Fire Tender was received on site on 23.11.2019 and successfully commissioned on 28.11.2019. Replacement of this asset was allowed under Regulation 14(3)(ii) of the 2014 tariff regulations as the asset will become economic and efficient operation is done. Order Copy Enclosed as Pag. 12	40
	Total of Approved	41.70	0.00	41.70						
b	CERC Not Approved									
1	Dam safety monitoring system DMS*	380.06		380.06		[illegible]			All the instrumentations which were installed for monitoring of the Dam & Spillway during the construction stage are non-functional and beyond the scope of repairing. Since, continuous functioning of the Dam/ Spillway and its appurtenant structures are a very vital part with respect to safety, a new Dam Safety Monitoring instrumentation was urgently required to be installed and the existing instruments. Therefore, for monitoring of the Dam and its appurtenant structures, following instrumentations were installed and put in working mode. Geodetic Equipment: High precision zero orders, compass accurate 0.5" total station along with 20 nos. of prism mounted at Dam body. DMS Equipment: Different nos. of DMS receiver and pendulum sensors including power and communication components. Seismic Equipment: Different nos. of seismic sensor/receiver which has been incorporated with DMS data acquisition system. Weather station: 1 (one) no. of weather station/sensor. Automatic water level recorder: [three] nos. of automatic water level sensor. "These instruments installed at Dam will not only record the data continuously monitor for safety of the Dam but also facilitate to take essential measures and rectification required immediately. The work was successfully completed on 15.03.2019	
2	Dam safety monitoring system Room @+10.0 Building	9.00		9.52		[illegible]			For continuous monitoring of the instrumentations installed at Project site, a control room was created at +10, Shillong terrain/rock exploration was made for this work. The work was successfully completed on 23.07.2019	
3	Development survey	74.18	0.00	74.18		[illegible]			For every Hydel Project, Study for Dam Break Analysis and Disaster Management Plan is mandatory to be conducted. However, for Doyang Hydro Power Station, this study was not conducted since commissioning in the year 2002. Therefore, as per the regulation of National Dam Safety Authority (NDSA), Dam Break Analysis and Disaster Management Plan of Doyang Dam was conducted through IIT, Guwahati. This study is necessary to predict the potential consequences in a dam failure and to help mitigate the risk to human beings and property of the Downstream of Doyang Dam which are located at flood-prone areas. This study will help to develop emergency response plans to reduce the impact of a dam failure.	
	Total of Not Approved	3.24.72	0.00	3.24.72						
2	2023-2027									
a	CERC Approved									
1	Switchyard including cable connection Procurement of Current Transformers (CTs) with CTR 800/1 A replace the existing CTs of CTR 800/1 A in the outgoing feeders Bus coupler in 66 kV 132kV Switchyard, DHEP. Total CTs required to be procured with CTR 800 including Dress spare CTs will be 18 (eighteen) numbers only.	29.20		29.20		26(i) (a)	Approved cost by CERC Rs.75 Lakh	Allowed by CERC for ₹ 75 Lakh as New assets during 2024-25 vide Petition no. 334/GT/2020 (suo-moto) dated 30th May 2022 Page No.65	As discussed in the 60th meeting and agreed by all constituents, old and important equipments like grid stability, upgradation of CTs is required to be done in order to increase power flow and to maintain grid stability. The existing CTs of CTR 800/1 A outgoing feeders and Bus coupler are to be replaced with 01 no. of CTR 800/1. The work was successfully completed on 21.03.2023	₹ 75.00
2	TAP/Jeevanjli Procurement of new turbine at Mokokchung unit	25.00		25.00		26(i) (a)	ASSESSED COST BY CERC 45.15 Lakh	Allowed by CERC for ₹ 25 Lakh as New Assets during Petition No. 334/GT/2020 Dated 30th May 2022 Page No.65	The existing turbine at Mokokchung is more than 20(twenty) years old and it frequently breaks down hampering the functioning of machines due to pulse tripping problem. In order to avoid down time and planned forced outage of the machine, procurement of a new turbine will be required for replacing the old one is necessary. The work was successfully completed on 15.01.2023	₹ 13.00

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2	Plant & Machinery in Sanitation Depart. Consisting of Sewage and Drainage pump submersible with automatic and Controller	43.89		43.89		66333.1	Approved cost by CSRC Rs.43.89 Lakh	Allowed by CSRC for ₹ 80 Lakh as New Claims during 2023-24 Vide Decision No. 223/97/Shift Dated 12th May 2023 Item No.43	Ageing and prolonged use of the castings drainage and dewatering submersible sets has led to frost wear and tear and often these pump motor sets are giving frequent problems causing/the important pumps. As such the dewatering and drainage pump motor sets need to be replaced at the earliest in order to avoid flooding in Tower House and fear of penalties on the users of Toilets in the existing Dewatering and Drainage motor pump sets.The work was successfully completed on 20.09.2023	₹ 80,000
	Total of Approved	82.446		82.45						

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B	CERC Not Approved									
1	Gen. area monitoring system Bank @ HQ Shillong	2.00		2.00		[illegible]			For reinforcement monitoring of the environmental conditions installed at Project site, a service team was created at HQ, Shillong for refusal run expenditure was made for the work. The work was successfully COMPLETED on 03.07.2019	
2	Supply & Inst.of Automatic Weather station	14.02		14.02		[illegible]			Due to Climate Change and other environment factors, the rainfall pattern in the catchment area of Doyang Dam has become very unpredictable. Such instances occurred during the year 2015, where there was huge inflow of water into the Doyang reservoir which was beyond the capacity of the reservoir, resulting in huge discharge of water from Doyang Dam which in turn led to flooding of many low lying areas under Dimapur District, known as the Downstream of Doyang Dam and also submergence of many publicly held of the catchment of Doyang Dam. Therefore, installation of Early Warning System for Doyang Reservoir was urgently required for the safety of... "The Project Authority has implemented Early Warning System by installation of 3 (three) nos. of AWS with dual data transmission medium (Satellite & GSM/GPRS backup) in the month of the Commissioning. With the existing system installed, there will be sufficient lead time available in emergency for early warning to all the stake holders. The work was successfully completed on 19.01.2021	
3	Concrete of Steel Bar Fire Tender Portable/Mobile/CO2 (BFR) during 2014-15)	3.87		3.87		[illegible]			The project vehicle of 5500 ltr capacity was presented / received. Due to non-availability of Domestic Hotel like Power House Complex, immediate construction of shed was necessary for keeping the vehicles in safe condition. The work was successfully completed on 15.05.2020. The item is proposed for reimbursement under Sanctioned "Fire Fighting Equipments Procurement of Fire Tender 4000 Litres" released ₹ 40 Lakh Allotted by DGFS (vide) 2014-15 & allowed for Spillover During 2019-20.	
	Total of Not Approve	21.84		70.84						
3	2021-2022									
C	CERC Approved									
1	Plant & Machinery in Sanitation District Pre-stressed spring mattress for thrust bearings in bar exposed for all 3 (three) units.	100.00		105.18		[illegible]	Approved cost by CERC Rs.100 Lakh	Allowed for CERC/Tariff/2021/449 on New Balance during 2020-21 vide Petition No. (Suo) w/s Mizoram Dated 23th July 2021 Para No.13	The work involved the non-operative and has been effected and is being carried by workers of spring mattresses bearing attached to the propeller. A pre-stressed spring mattress for thrust bearing, thrust propeller assisting spring unit of prescribed values and enabled the performance of the bearing, balancing of propeller etc. In order to add support the machine from unbalanced axial vibration and to increase the efficiency of the machine, the required number of pre-stressed spring mattresses in the thrust bearing arrangement spring mattresses shall be in the units. The work was successfully completed on 15/11/2021	₹ 105.00
2	Transformer bushing rating 800 KVA & above. CSA assessment to be compromised unless it at the 33/11kv(1) Generator Transformer	64.00		64.00		[illegible]	Approved cost by CERC Rs.60.00 Lakh	allowed by CERC for ₹60 Lakh as New Deposit during 2020-21 Vide Petition No. 03/2020 Dated 23rd May 2020 Para No.15	Failure of Generator Transformer in one of the essential Material in a Power Plant and back-up standby shall make The interconnection of 33kV (Dualcast Lay Complex will take in operation considering in DT. And of the bank loading of an 1MVA,33/11kV Substation of Generator Transformer over the overall grid and the load voltage fluctuation and also to experience in reading of DT. The work was successfully completed on 15th October 2020 duly commissioned by us	₹ 60.00
	Total of Approved	164.21		169.18						
D	CERC Not Approved									
1	CONSTRUCTION OF BARRACK @ DSF Silchar	9.72		9.72		[illegible]			In order to secure the Barracks space of DSF, it was felt essential by the HWP Authority to construct one G.I. shy of barrack near the Quarter gate and Receiving room. And accordingly the barrack was constructed by carefully measures was under taken the existing existing road the Barrack (consisted 4 Nos.) was constructed in Assam [illegible] The work was successfully completed on 31/03/2021	
2	CONSTRUCTION OF DSF KITCHEN	7.00		7.00		[illegible]			As per requirement of the DSF, HWP work it was necessary to construct a kitchen room as Dsf Office for newly inducted recruits by considering all aspects as mentioned above was in facilities for CISF personnel the HWP Personnel was accessed as Annexure I. The work was successfully completed on 25.02.2021	
3	Supply & installation of Double acting Diesel and service Panel	25.22		18.34		[illegible]			The Hydraulic pitch replacement of the old & Existing Local Control Panels was rehabilitated as the normal operations of the Generating Units were successfully completed. It was made a first step at the Mokokchung Local Control Panels. The old Diesel and Local Control Panels failed time to time and had lack of technical support, because of unavailability of spares parts, and the machine as the system has become obsolete and requires some rehabilitations. In order to operate the generating of the safely and reliability and to increase the overall operational efficiency of the generating, existing Hydraulic pitch replacement control was made as new Local Control Panels was required. Electrical portfolio enclosed as Page 1 shows a brief comparison on Page 2. The work was successfully completed on 31.03.2021	
4	Supply and commissioning of 11 KV Distribution panel	11.00		11.00		[illegible]			The 11KV distribution panel was commissioned in the year 2011 at 132KV Switchyard of NEEPCO Kathalguri. Due to the system was facing malfunctioning in the control system. The distribution panel was dismantled and replaced by the Official Hydraulic Electric Limited and supplied the Project Authorities and Satisfactory of the same the work was successfully, at the time of the components are old and not available, accordingly, some of the major components in the control system and some are replaced / modified/made, accordingly. The work was completed successfully on 31.03.2021	
5	POL of 30 Kva Dismantle Pension Plant	11.97		11.97		[illegible]			Power Supply Source is not given for 11KV & Distribution system. To form out of order and the Power Supply Source is not given for 11KV & Distribution system. To form out of order and the Power Supply Source is not given for 11KV & Distribution system. To form out of order and the

2	Plant & Machinery in Generation Station Transformer(one 220/11 DG Cutout cubicle)	180.79		180.79		[illegible]	Approved cost by CERC Rs.80 Lakh	Allowed by CERC for 2014-19 vide order in Petition No. 292/GT/2014 Dated 12.01.2016 Page No.25	Per "GETA instruction no1 as recommended by consultant team and as per the CEA guide lines, all distribution DG cubicle or DC source shall be the essential features of DG control system. Hence DG control system will fail and will lead to inadequate shutdown of the machines. As such procurement of 220 VDC Back II was made. CEA guidelines mark to be attached. The work was successfully completed on 21.10.2020	₹ 80.00
3	Fire Fighting Equipment Replacement of CO2 Fire Fighting system of 3 Numbers Generator	31.60		31.60		[illegible]	Approved cost by CERC Rs.50 Lakhs	1 Set cost allowed for 2014-19 & proposed for Spillover During 2019-24 vide Petition No. 244/GT/2020 Dated 30.01.2021 Page No.7	Provision for replacement of CO2 fire fighting system of 3 nos Generators was approved and accepted under ACC-CAP for block year 2019-24 for an amount ₹ 30.00 Lacs. The work has been carried over to block year 2024-29 i.e. actually the CEIN NIT/ Tech.Spec. Notice was up-provision for replacement of CO2 Fire Fighting system for 3 (three) nos. Generators. Replacement of this asset was allowed under Regulation 14 (3)(vi) of the 2014 tariff regulations as the asset will facilitate successful and efficient operation of plant. The work was successfully completed on 04.01.2022	₹ 30.00
4	Plant & Machinery in Generation Station Upgradation of Switchgear(total 4Nos) in numerical relays & SM energy meters in ART Core&Agitation motor	243.79		243.79		[illegible]	Approved cost by CERC Rs.265 Lakhs	4.500 lakh Allowed by CERC during 2014-19 & allowed for Spillover during block 19 Vide Petition No. 292/GT/2014 dated 12th May 2016 Page No.7	Provision for retrofitting of numerical relay and VMT based Energy meter was already approved under ACC - CAP for block year 2014-19 for an amount ₹ 250.00 Lacs . Detailed order NO.CERC/GT/DOH/PETITION/292/2014/1204 & 1205 dated 09/05/2016. The work could be completed and had been carried over in block year 2019-24. The application of this asset was allowed under regulation 14(3)(vi) of the 2014 TariffRegulations, as the asset will facilitate successful and efficient operation of plant.The work was successfully completed on 01.07.2022	₹ 243.00
	Total of Approved	731.58		731.58						
B	CERC Not Approved									
1	Supply and Installation of Instrument for Rockfill Dam & Spillway of DHEP	4.33		4.33	TMVT power to relay of no.[illegible]				The expenditure was incurred towards pending final bill payment to M/s Sri Lanka Wire Electronics Pvt. Ltd for Supply and Installation of Instruments for Rockfill Dam and Spillway of DHEP, Hajolong which was commissioned during the year 2008.	
2	Supply & Instal. of Old Volt DT	333.20		333.20	[illegible]				Procurement of 1 (one) 10.5 MVA Generator Transformer was made as a replacement of Rated 8/7.5 MVA (Two) nos no spares DT available and also the CWR insisted to supply the required spares windings etc for repairing the failed DT owing to obsolescence of the equipments. Enlistment Directors Certificate of Indo Bhl., GEM of DT as Reg/8. The DT was successfully supplied,installed and commissioned on 28.02.2022	
3	Supply of 2 Nos 10HP Submerge Submersible Pump	27.20		27.20	TMVT power to relay of no.[illegible]				Provisions for provision of Power House against flooding by installing Submersible motor of submersible pumps with provision for automatic starting by means of level switches at main inlet valve floor. In addition to drainage and dewatering pumps as per IEEe Regulation 2014 (Technical Standards for Construction of Electrical Plants and Electric Lines), Chapter-III, Clause-39 (CEA Regulation 2022 Chapter-III, Par [illegible] been also upgraded on 04.07.2022.	
4	Design,Mfg,Testing,Supply of 11.5KV CRAFT Unit Cubicle & PLC Control System	84.35		84.35	TMVT power to relay of no.[illegible]				In order to avoid failure of existing outer lined heat exchanger in Generator Transformer a new air flow of superior was presented to control quality voltage of Generator Transformer. The item was successfully commissioned on 19.03.2022	
	Total of Not Approved	439.08		439.08						
A	2022-2024									
B	CERC Approved									
	NIL									
	Total of Approved	0.00		0.00						
B	CERC Not Approved									
1	Recovering Inductor Type C, Make Doble USA, Neutral Type E Resonating Inductor	31.78		31.78	TMVT power to relay of no.39/13/05				Test instrument air conditioning maintaining of vibration equipment to establish the maintenance of the equipments and to take preventive measures wherever necessary in order to avoid unnecessary failures of equipment thereby ensuring trouble free operating unit.	
	Total of Not Approved	31.78		31.78						

1 [illegible] already been allowed under any tariff order(s) in the past. Of actuals / Of going De-cost accelerator for the purpose of tariff notification already issued by Ministry of

2 The above information needs to be furnished separately for each year/period of tariff period 2014 –19.

3 Serial No.of column 1,3,5 and 6. Further the original book value and year of capitalization of such asset as on

4 Where any asset is considered unserviceable the same shall be treated as de-capitalized during that year and original

5 Justification against each asset of capitalization should be specific to capitalization using which study has been made and the necessity of capitalization of the particular asset.

Note :

1. Fill the form in chronological order year wise along with detailed justification clearly bringing out the necessity and the benefits accruing to the beneficiaries.
2. In case more assets are purchased along with one accessories, then the cost of such assets should be indicated separately, e.g. Rotor- 10 Cr., Stator/Lagoon -5 Cr.

Year	Approved	Not approved	Total
2014-15	41.70	209.72	251.42
2015-16	87.48	71.63	159.09
2016-17	120.77	79.97	200.74
2017-18	73.36	836.84	1068.84
2018-19	0.00	31.78	31.78
2019-20	0.00	0.00	0.00
	Total	1211.94	2711.71

source income asset	outlay income asset all mark
220.72	41.70
13.97	87.48
71.20	120.77
	1068.84
22.70	0.00
438.37	1211.94

PART-II
FORM-9Bi

Complete

Detail of Assets De-Capitalized during the period

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION
Place (Region/District/State): North Eastern Region State: NAGALAND District: WOKHA

Sl. No.	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised (Rs.	Year Put to use	Depreciation recovered till date of de-capitalisation. (Rs. in Lakh)	Remarks	Asset ID
1	2	3	4	5	6		
	De-Cap on Excess Capitalised.						
	FY 2019-20						
1	Plant& Machinery in Gen.Stn.(plant)	Excess Capitalised in FY 2018-19(Mar'19) withdrawn in FY 2019-20	56018.00	26.03.2019	0 (DeCap on 01.04.2019)		
			56018.00				
	Written-Off from Asset and transfer to Prov.for write-off awaiting approval:						
	FY 2022-23						
1	8MM thick M.S.Plate	Written-Off of Damaged/Unserviceable Assets	116216	31-09-2009	82431.66		101314000492
2	Electric motor Drife	Written-Off of Damaged/Unserviceable Assets	187417	13-11-2002	132932.10		101314000491
3	Motor Driven Centrifugal	Written-Off of Damaged/Unserviceable Assets	563750	13-11-2002	399895.72		101314000490
4	Steamless Pipe	Written-Off of Damaged/Unserviceable Assets	14850	18-11-2002	14949.00		101314000497
5	Water level Controler	Written-Off of Damaged/Unserviceable Assets	30750	13-11-2002	21810.52		101314000492
6	HCL Infiniti Core I3 Desktop PC	Written-Off of Damaged/Unserviceable Assets	16024	09-06-2006	9653.48	Exclusion	101502000205
7	NVR with 2TB HDD 19" LE	Written-Off of Damaged/Unserviceable Assets	20434	31-10-2006	12307.66	Exclusion	101503000475
8	Phoenix	Written-Off of Damaged/Unserviceable Assets	50006.74	25-06-2019	47029.83	Exclusion	101601000179
9	SAVIOR Finger Print Read	Written-Off of Damaged/Unserviceable Assets	34067	25-03-2013	34067.00	Exclusion	101603001170
10	Dahua 8 Ch NVR with Monitor	Written-Off of Damaged/Unserviceable Assets	40162	27-06-2016	40162.00	Exclusion	101601000168
11	HP 400G4 Desktop PC	Written-Off of Damaged/Unserviceable Assets	66221.5	25-10-2002	66221.50	Exclusion	101601000170
12	HP laserjet	Written-Off of Damaged/Unserviceable Assets	22471	29-04-2016	22471.00	Exclusion	101603001138
13	HP Lazer Jet 3030	Written-Off of Damaged/Unserviceable Assets	53395	15-05-2018	53395.00	Exclusion	101603001227
14	HP280 Commercial Desktop PC	Written-Off of Damaged/Unserviceable Assets	22000	19-09-2014	22000.00		101603001256
15	IP Dome Camera	Written-Off of Damaged/Unserviceable Assets	16932	01-04-2005	16932.00		101603001276
16	IP Dome Camera	Written-Off of Damaged/Unserviceable Assets	59972	22-05-2017	59972.00		101603001283
17	Laserjet P1007 Printer	Written-Off of Damaged/Unserviceable Assets	7506	27-05-2016	7506.00	Exclusion	101603001284
18	Air Conditioner	Written-Off of Damaged/Unserviceable Assets	7506	27-05-2016	7506.00	Exclusion	101603001285
19	Air Conditioner	Written-Off of Damaged/Unserviceable Assets	5997	04-11-2011	5997.00	Exclusion	101603001291
20	HP Intel cores i5 14	Written-Off of Damaged/Unserviceable Assets	83732	26-11-2020	52685.45	Exclusion	101901000135
21	Display Board L 6' X 84	Written-Off of Damaged/Unserviceable Assets	8609	24-10-2016	2190.89		101400016277
22	Godrej Carbo 3seater	Written-Off of Damaged/Unserviceable Assets	25584.39	14-02-2014	8105.22	Exclusion	101400004578
23	Godrej Executive Chair	Written-Off of Damaged/Unserviceable Assets	12966.5	28-09-2012	3977.48	Exclusion	101400004614
24	Godrej Executive Table	Written-Off of Damaged/Unserviceable Assets	10302	28-09-2012	3166.96	Exclusion	101400004616
25	Godrej Premium long chai	Written-Off of Damaged/Unserviceable Assets	18464.52	14-02-2014	5888.37	Exclusion	101400006478
26	Godrej revolving Chair P	Written-Off of Damaged/Unserviceable Assets	13639.15	14-02-2014	4357.14	Exclusion	101400006487
27	Godrej Steel Rack (6'x15)	Written-Off of Damaged/Unserviceable Assets	6868	06-01-2019	1101.13	Exclusion	101400006501
28	Office table(single draw	Written-Off of Damaged/Unserviceable Assets	7534.74	12-08-2015	2133.66	Exclusion	101400006599
29	Emergency First Aid Kit	Written-Off of Damaged/Unserviceable Assets	50550	26-03-2008	25406.99	Exclusion	102100000084
30	BPL Digital EPABX	Written-Off of Damaged/Unserviceable Assets	164850	31-09-2007	148365.00	Exclusion	102001000039
31	BPL EBABX System Sigma 2	Written-Off of Damaged/Unserviceable Assets	241749	22-05-2007	215175.83	Exclusion	102001000040
32	Fax Machine HP L Jet 305	Written-Off of Damaged/Unserviceable Assets	15839	10-07-2007	11225.19	Exclusion	102001000424
33	12V Battery Model18	Written-Off of Damaged/Unserviceable Assets	32625	31-03-2009	15574.36	Exclusion	103002000815
34	Aquaguard Classic Water	Written-Off of Damaged/Unserviceable Assets	9350	21-08-2015	2646.18	Exclusion	103002000469
35	Aquaguard Classic Water	Written-Off of Damaged/Unserviceable Assets	9350	21-08-2015	2646.18	Exclusion	103002000470
36	Aquaguard Classic Water	Written-Off of Damaged/Unserviceable Assets	9360	21-08-2015	2646.18	Exclusion	103002000471
37	Aquaguard Classic Water	Written-Off of Damaged/Unserviceable Assets	9360	21-08-2015	2646.18	Exclusion	103002000472

38	Aquaguard Classic Water	Written-Off of Demaged/Unserviceable Assets	9350	21-08-2015	2646.18	Exclusion	103002000473
39	Aquaguard HI-FLOW wa	Written-Off of Demaged/Unserviceable Assets	10640	20-11-2009	3829.73	Exclusion	103002000464
40	Aquaguard HI-FLOW wa	Written-Off of Demaged/Unserviceable Assets	10640	20-11-2009	3829.73	Exclusion	103002000816
41	Aquaguard HI-FLOW wa	Written-Off of Demaged/Unserviceable Assets	10640	20-11-2009	3829.73	Exclusion	103002000465
42	Aquaguard water Filt	Written-Off of Demaged/Unserviceable Assets	10240	16-09-2009	4406.86	Exclusion	103002000451
43	Euro Clean Electron	Written-Off of Demaged/Unserviceable Assets	9490	20-11-2009	3415.28	Exclusion	103002000483
44	Mono Block pump Mode	Written-Off of Demaged/Unserviceable Assets	30567	27-10-2014	9390.52		103002000328
45	Mono Block pump Mode	Written-Off of Demaged/Unserviceable Assets	19927	27-10-2014	6121.72		103002000327
46	Treadmill	Written-Off of Demaged/Unserviceable Assets	165000	12-02-2014	53536.36		103002000345
47	Voltas 1.5 Ton AC wi	Written-Off of Demaged/Unserviceable Assets	35350	27-10-2014	11960.63	Exclusion	103002000944
48	Degital Camera SONI	Written-Off of Demaged/Unserviceable Assets	14500	21-01-2011	6153.21	Exclusion	101503002134
49	LCD Projector with Screen	Written-Off of Demaged/Unserviceable Assets	83487	07-03-2009	39947.44	Exclusion	101503000643
50	Aluminium Ladder Plateform 7 ft	Written-Off of Demaged/Unserviceable Assets	7965	08-02-2019	1248.66	Exclusion	101321000491
51	Aluminium Ladder Plateform 9 ft	Written-Off of Demaged/Unserviceable Assets	10620	08-02-2019	1664.88	Exclusion	101321000492
52	Crompton Grieve Mini Mas 1 HP Mol	Written-Off of Demaged/Unserviceable Assets	6715	14-09-2011	3378.43	Exclusion	101321000570
53	Super King 10HP water cooled Dies	Written-Off of Demaged/Unserviceable Assets	29600	18-01-2010	13117.32		101321000569
54	Air Conditioner	Written-Off of Demaged/Unserviceable Assets	20434	31-10-2006	12548.20	Exclusion	101502000213
55	Air Conditioner	Written-Off of Demaged/Unserviceable Assets	16024	09-06-2006	9841.69	Exclusion	101502000212
56	Air Conditioner	Written-Off of Demaged/Unserviceable Assets	16024	09-06-2006	9841.70	Exclusion	101502000207
57	BE make Pump	Written-Off of Demaged/Unserviceable Assets	41702	26-11-2004	37531.80		101801000157
58	NTPL MAKE100KV MOTORIST	Written-Off of Demaged/Unserviceable Assets	68606	15-09-2020	6879.07	Exclusion	101801000218
59	Telephone Line	Written-Off of Demaged/Unserviceable Assets	4653968.94	21-12-2001	4093009.49		102002000004
60	28.5 MVA GT Tranformer Makes: BH	Written-Off of Demaged/Unserviceable Assets	12661016.07	21-12-2001	4241108.27		101320000044
61	Vacuum cleaner	Written-Off of Demaged/Unserviceable Assets	5330	25-03-2003	5329.00		101321000791
62	Heat Convertor 423 N & R	Written-Off of Demaged/Unserviceable Assets	4795	31-03-2003	4795.00		101321000568
63	Secretariate Table	Written-Off of Demaged/Unserviceable Assets	9442	09-05-2002	9441.00		101400004703
64	Secretariate Table	Written-Off of Demaged/Unserviceable Assets	9442	09-05-2002	9441.00		101400004705
65	Executive Chair 7002D	Written-Off of Demaged/Unserviceable Assets	8423	28-09-2002	8422.00		101400004568
66	Secretariate Table	Written-Off of Demaged/Unserviceable Assets	7570	09-05-2002	7569.00		101400004704
67	Secretariate Table	Written-Off of Demaged/Unserviceable Assets	7570	09-05-2002	7569.00		101400004706
68	Godrej Ex.Chair PCH-7002	Written-Off of Demaged/Unserviceable Assets	7183	12-09-2002	7182.00		101400004611
69	Chair PCH-7003D Marron	Written-Off of Demaged/Unserviceable Assets	6331	21-09-2010	6330.00	Exclusion	101400004650
70	Wooden Rack	Written-Off of Demaged/Unserviceable Assets	5389	28-11-2002	5388.00		101400004739
71	Godrej Chair-7003	Written-Off of Demaged/Unserviceable Assets	5050	18-05-2007	5049.00	Exclusion	101400004595
72	Godrej Chair-7003	Written-Off of Demaged/Unserviceable Assets	5050	18-05-2007	5049.00	Exclusion	101400004596
73	Godrej Computer Rack	Written-Off of Demaged/Unserviceable Assets	4747	28-09-2002	4746.00	Exclusion	101400004608
74	Godrej Single matters	Written-Off of Demaged/Unserviceable Assets	4474.37	14-02-2014	4473.37	Exclusion	101400006489
75	Godrej Single matters	Written-Off of Demaged/Unserviceable Assets	4474.37	14-02-2014	4473.37	Exclusion	101400006490
76	Godrej Single matters	Written-Off of Demaged/Unserviceable Assets	4474.37	14-02-2014	4473.37	Exclusion	101400006491
77	Godrej Chair with arm	Written-Off of Demaged/Unserviceable Assets	1664	31-12-2011	1663.00	Exclusion	101400004691
78	Steel chairCH-4(Armless)	Written-Off of Demaged/Unserviceable Assets	984	31-12-2011	983.00	Exclusion	101400004716
79	Steel chairCH-4(Armless)	Written-Off of Demaged/Unserviceable Assets	984	31-12-2011	983.00	Exclusion	101400004716
80	Accord EPABX System Prid	Written-Off of Demaged/Unserviceable Assets	14020	31-03-2007	12616.09		102001000038
81	Cannon Fax Machine	Written-Off of Demaged/Unserviceable Assets	8580	14-03-2006	7722.09		102001000425
82	8 Ports unmanaged switch	Written-Off of Demaged/Unserviceable Assets	4484	27-02-2010	4483.09		102001000037
83	Telephone Line	Written-Off of Demaged/Unserviceable Assets	14145.94	25-03-2004	13191.30		102002000006
84	Telephone Line	Written-Off of Demaged/Unserviceable Assets	10436.1	25-03-2004	9969.74		102002000005
85	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00		102100000085
86	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00		102100000086
87	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00		102100000087
88	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00		102100000088
89	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00		102100000089

90	Hospital Equipment	Written-Off of Damaged/Unserviceable Assets	10838	21-12-2001	10837.00		102100000090
91	ASPEE MARUT HAND COMPR.SPI	Written-Off of Damaged/Unserviceable Assets	5500	16-10-2017	5499.00		102100000190
92	Bed side Locker	Written-Off of Damaged/Unserviceable Assets	3200	12-11-2002	3199.00		102100000082
93	Bed side Locker	Written-Off of Damaged/Unserviceable Assets	3200	12-11-2002	3199.00		102100000083
94	ElectSterilizer50cmX20cm	Written-Off of Damaged/Unserviceable Assets	2200	26-03-2008	2199.00		102100000195
95	H.I.V. Device/URS-9	Written-Off of Damaged/Unserviceable Assets	1345	26-03-2008	1344.00		102100000197
96	Metel Dtector	Written-Off of Damaged/Unserviceable Assets	10400	31-03-2007	10399.00		103002000344
97	Storage Water Heater 15	Written-Off of Damaged/Unserviceable Assets	15086	22-06-2002	15085.00		103005000027
98	Tatasky Digicomp(HD)	Written-Off of Damaged/Unserviceable Assets	2050	09-09-2016	2049.00	Exclusion	103005000042
99	F.A. Box Self Care Kit Big GEN	Written-Off of Damaged/Unserviceable Assets	4906	01-04-2017	4905.00	Exclusion	103100002061
100	F. A. Box Self Care Kit Big GE	Written-Off of Damaged/Unserviceable Assets	4906	01-04-2017	4905.00	Exclusion	103100002062
101	F. A. Box Self Care Kit Big GE	Written-Off of Damaged/Unserviceable Assets	4906	01-04-2017	4905.00	Exclusion	103100002063
102	F. A. Box Self Care Kit Big GE	Written-Off of Damaged/Unserviceable Assets	4906	01-04-2017	4905.00	Exclusion	103100002064
103	Godrej premier visitor	Written-Off of Damaged/Unserviceable Assets	4020	01-04-2016	4019.00	Exclusion	103100002067
104	Hero Royal Bicycle	Written-Off of Damaged/Unserviceable Assets	3900	01-04-2016	3899.00	Exclusion	103100000676
105	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002019
106	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002020
107	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002023
108	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002024
109	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002025
110	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002026
111	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002027
112	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002028
113	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002029
114	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion	103100002030
115	Kurlon Sona 3.5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion	103100000841
116	Kurlon Sona 3.5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion	103100000842
117	Kurlon Sona 3.5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion	103100000843
118	Kurlon Sona 3.5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion	103100000844
119	Kurlon Sona 3.5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion	103100000845
120	Blanket	Written-Off of Damaged/Unserviceable Assets	3050	01-04-2013	3049.00	Exclusion	103100002012
121	Bajaj Blow Hot Room Heater	Written-Off of Damaged/Unserviceable Assets	2399	01-04-2013	2398.00	Exclusion	103100002010
122	Bajaj Blow Hot Room Heater	Written-Off of Damaged/Unserviceable Assets	2399	01-04-2013	2398.00	Exclusion	103100002011
123	Blanket	Written-Off of Damaged/Unserviceable Assets	1940	01-04-2013	1939.00	Exclusion	103100002013
124	Blanket	Written-Off of Damaged/Unserviceable Assets	1940	01-04-2013	1939.00	Exclusion	103100002014
125	Blanket	Written-Off of Damaged/Unserviceable Assets	1940	01-04-2013	1939.00	Exclusion	103100002015
126	Blanket	Written-Off of Damaged/Unserviceable Assets	1940	01-04-2013	1939.00	Exclusion	103100002016
127	Electronic personal	Written-Off of Damaged/Unserviceable Assets	1800	01-04-2011	1799.00	Exclusion	103100002118
128	Electronic personal scal	Written-Off of Damaged/Unserviceable Assets	1800	01-04-2011	1799.00	Exclusion	103100002119
129	Electronic personal scal	Written-Off of Damaged/Unserviceable Assets	1800	01-04-2011	1799.00	Exclusion	103100002120
130	Revolving Stool INFOS	Written-Off of Damaged/Unserviceable Assets	1400	01-04-2011	1399.00	Exclusion	103100000872
131	Pressure cooker(5 Litres)	Written-Off of Damaged/Unserviceable Assets	1400	01-04-2013	1399.00	Exclusion	103100002107
132	Saline Stand-SS Rods wit	Written-Off of Damaged/Unserviceable Assets	1400	01-04-2011	1399.00	Exclusion	103100002110
133	Stethoscope, Model Delux INFOS	Written-Off of Damaged/Unserviceable Assets	1363	01-04-2017	1362.00	Exclusion	103100000879
134	Mercurial BP Apparatus D	Written-Off of Damaged/Unserviceable Assets	1280	01-04-2011	1279.00	Exclusion	103100002084
135	Mercurial BP Apparatus D	Written-Off of Damaged/Unserviceable Assets	1280	01-04-2011	1279.00	Exclusion	103100002085
136	Mercurial BP Apparatus D	Written-Off of Damaged/Unserviceable Assets	1280	01-04-2011	1279.00	Exclusion	103100002086
137	Mercurial BP Apparatus D	Written-Off of Damaged/Unserviceable Assets	1280	01-04-2011	1279.00	Exclusion	103100002087
138	Oxygen Flow Meter	Written-Off of Damaged/Unserviceable Assets	1269	01-04-2011	1268.00	Exclusion	103100000870
139	ENT Set Deluxe INFOS	Written-Off of Damaged/Unserviceable Assets	849	01-04-2011	848.00	Exclusion	103100000858
140	ENT Set Deluxe INFOS	Written-Off of Damaged/Unserviceable Assets	849	01-04-2011	848.00	Exclusion	103100000859
			20387755.91		10519488.47	1094886.84	

	FY 2023-24						
1	Fire Tender NL05 D 1518	Written-Off of Demaged/Unserviceable Assets	223644.85	21-12-2001	201100.35		101314000463
2	TV 21" BPL	Written-Off of Demaged/Unserviceable Assets	10525	20-11-2009	5198.85	Exclusion	103003000289
3	Elect.Kettle Model:T	Written-Off of Demaged/Unserviceable Assets	900	01-04-2012	899.00	Exclusion	103100002060
4	IBall Nirantar UPS-621V	Written-Off of Demaged/Unserviceable Assets	1950	01-04-2018	1949.00	Exclusion	103100000840
5	Godrej visitor Chair	Written-Off of Demaged/Unserviceable Assets	7107	28-09-2012	2615.51	Exclusion	101400004677
6	Wireless Antenna : 20 Mbps Aclorad	Written-Off of Demaged/Unserviceable Assets	277131	27-02-2010	195504.20	Exclusion	102001000189
7	11 Nos.Damaged Vehicles	Written-Off of Demaged/Unserviceable Assets	2204421.5	21-12-2001	1963979.29		101702000037
8	Motorcycle CISF NLO5/6085	Written-Off of Demaged/Unserviceable Assets	40575	11-08-2005	38517.50	Exclusion	101702000006
9	Motorcycle CISF NLO5/6095	Written-Off of Demaged/Unserviceable Assets	40575	11-08-2005	38517.50	Exclusion	101702000007
10	Gypsy ML-05E-1513 CISF	Written-Off of Demaged/Unserviceable Assets	534261	21-06-2006	480834.90	Exclusion	101702000003
11	Healthpure Classica dispenser	Written-Off of Demaged/Unserviceable Assets	8991	13-07-2020	1392.69	Exclusion	101503000569
12	Healthpure Classica dispenser	Written-Off of Demaged/Unserviceable Assets	8991	13-07-2020	1391.84	Exclusion	101503000573
13	Healthpure Classica dispenser	Written-Off of Demaged/Unserviceable Assets	8990	19-08-2020	1355.66	Exclusion	101503000576
14	Healthpure Classica dispenser	Written-Off of Demaged/Unserviceable Assets	8991	19-08-2020	1356.64	Exclusion	101503000575
15	Xerox Machine	Written-Off of Demaged/Unserviceable Assets	43577	09-06-2014	15289.01	Exclusion	101503000649
16	Sony LCDTV	Written-Off of Demaged/Unserviceable Assets	71560	25-08-2011	30617.07	Exclusion	101503002135
17	Books & manual	Written-Off and booked to O&M	40	21-12-2001	39.00	Exclusion	103100006684
18	Books & manual	Written-Off and booked to O&M	65	21-12-2001	64.00	Exclusion	103100006685
			3492615.35		3009711.81	815542.17	

Note : Year wise detail need to be submitted.

(Petitioner)

Yearwise Deletion which is matched withFormat 9C		in Lakhs	Exclusion
2019-20	56018.00	0.56	0
2020-21	0.00	0.00	0
2021-22	0	0.00	0
2022-23	20387755.91	203.88	10.85
2023-24	3492615.35	34.93	8.15

PART-II
FORM-3D

Statement showing items/assets/works claimed under Capital Spares

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :DOYANG HYDRO POWER STATION
COD 08-07-2000

Sl. No.	Head of Work / Equipment	Total Cost of Capital Spares	Not used	Used			Justification	Remarks
1	2	3	4	5 = (3-4)	6			
	CAPITAL SPARES							
	2019-20	0.00		0.00				
	2020-21	0.00		0.00				
	2021-22	0.00		0.00				
1	Supply & Inst. of RIP BUSHING for 145 KV, 800 A,800CT Transformer	66.68		66.68			The procurement of 9 (nine) Nos. of Resin Impregnated Paper (RIP) Transformer bushing was made for replacement of the existing Oil Impregnated Paper (OIP) bushings of GTs which are more than 20 years old and showing sign of deterioration due to aging and in order to avoid any failure of the existing bushings and for securing the transformer and other associated equipment from fire accident the old GT bushings. Oder Copy enclosed as Flag-4. The item was capitalised on 21.01.2022. GRN attached as Annex-2.	Capital Spares
2	Procur Tan delta & capacitance measurement kit	36.27		36.27			Tan Delta and Capacitance Measurement Kit is required for measurement of insulation integrity/conditioning monitoring of transformers, bushings, generators, motors, cables etc to ascertain the healthiness of the equipment and to take preventative measure whenever necessary in order to avoid unnecessary failures of equipment thereby preventing outage of the generating unit. Oder Copy enclosed as Flag-3. The work was successfully completed on 13.07.2021	
	Total:	102.95		102.95				
	2022-23							
1	Hydraulic torque wrench,Make AEROBOOM	16.40		16.40			In order to open up coupling bolt during alignment correction, torque wrench is an important tools where by in reduces time and avoid hammer for tighting and also for opening. This tool is also utilised for opening and tightening in other works like draft tube cone, runner etc. The item was capitalised on 13.05.2022 Order Copy enclosed as Flag-12. GRN attached as Annex-3	Capital Spares
2	Supply of Thrust Pad Set & Guide Pad Set LOS	45.43		45.43			Capital Spares. Order Copy enclosed as Flag-5. The item was capitalised on 15.06.2022. GRN attached as Annex-6	Capital Spares
3	Oil cooler for bottom bracket. Make: BHEL	31.85		31.85			Capital Spares. Order Copy enclosed as Flag-9. The item was capitalised on 15.08.2022.GRN attached as Annex-6	Capital Spares
4	GV Cover plate, Split Dowel, GV Lever, adapter M30	219.10		219.10			Capital Spares. Order Copy enclosed as Flag-8.The item was capitalised on 05.11.2022.GRN attached as Annex-7	Capital Spares
5	Supply of 145KV SF6 Oil (GO), Type: 120 BPM-40AA	28.56		28.56			Capital Spares. Order Copy enclosed as Flag-7.The item was capitalised on 20.04.2022. GRN attached as Annex-8	
6	Supply of Typical Tank Mounted pump for Water Turbine Governor	23.00		23.00			Capital Spares. Order copy enclosed as Flag-10. The item was capitalised on 26.04.2022. GRN attached as Annex-8	
7	Supply of oil Cooler for Turbine Guide bearing(TGB) Housing	68.86		68.86			Capital Spares. Order Copy enclosed as Flag-6. The item was capitalised on 05.12.2022. GRN attached as Annex-8	Capital Spares
	Total:	433.20	0.00	433.20				
	2023-24							
1	Screw Pump for Oil Pressure Unit, S/N:A2004TT605-6	50.45		50.45			Capital Spares. Order copy enclosed as Flag-11. The item was capitalised on 18.11.2023. GRN attached as Annex-1	Capital Spares
	Total:	50.45	0.00	50.45				

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 not in sending station or in both the station.

(Petitioner)

Capital Spares		in Lakhs
2019-20		0.00
2020-21		0.00
2021-22		102.95
2022-23		433.20
2023-24		50.45
	Total:	586.61

2019-20	2020-21	2021-22	2022-23	2023-24
0.00	0.00	102.95	433.20	50.45

Addition of assets during Financial year 2019-2020

Head of account	Work/Supply Order Reference	Name of the Contract Supplier	Description	Voucher / JV No	Date of Completion	Total addn	Headwise addn
Prot Bldg (Non Resi)	DHEP/SI M/CC/SUB/37-03/2018-20/834 Dt.10.01.2020	Biyamo Yanthan	Construction of Toilet near Security Post at Power House Store, Cell-II	9218P02150	23/03/2020.	149300.00	149300.00
Dam/Reservoir/Spillway	NEEPCO/EP/CA/PF/Extension/Dam/2021/ Vol-III/1653 Dt.24.01.2018.	M/s Elcome Technologies Pvt. Ltd.	Dam safety monitoring system CWEP	9218P0351	03/07/2019.	29659663.00	32972385.00
Dam/Reservoir/Spillway	NEEPCO/DHEP/D&S/DAM/PT-29/2018-19/315 Dt.09/10/2018.	M/s Elcome Technologies Pvt. Ltd.	Dam safety monitoring control Room @ HQ Shillong	9218P0893	03/07/2019.	951600.00	
Dam/Reservoir/Spillway	NEEPCO/DHEP/D&S/DAM/PT-30/2018-19/315 Dt.09/10/2018.	IIT GUWAHATI	Downstream survey	9218P0408	14/10/2019.	311290.00	
Fire fighting equipment	CP/C&P/FE/Fire Tender/2018/Vol-III/1335 Dt.05/09/2018	AMBALA COACH BUILDERS	Water Cum Foam Fire Tender	9218P02201	28/11/2018.	4160815.00	4160815.00
T&P (Special)	DHEP/GM/EM/HQ/W-31/2018-20/a	M/S L M Enterprise	Supra Inverter 4015	9218P00811	25/08/2018.	68784.00	68784.00
Furniture & Fixture	Through Annexure-C by Dr. D.C Hatoi	Joabu Hauguo	Wooden rack for Hospital use	9218P03439	10/08/2018.	1500.00	23500.00
Furniture & Fixture	Through Annexure-C by N.K Gogoi	Lalsao Lotha	Wooden Rack for Guest Room(Big)	9218P01371003	15/08/2018.	10800.00	
Furniture & Fixture	Through Annexure-C by N.K Gogoi	Lalsao Lotha	Wooden Rack for Guest Room(Medium)	9218P01080	15/08/2018.	9600.00	
Main Frame Computer	DHEP/IT CELL/IT-39/2018-20/36 Dt.26/06/2019	CZAR TECHNO CORES	Supply & Installation of Bio-Metric Machine	9218P00712	25/06/2019.	320647.00	320108.00
Main Frame Computer	DHEP/IT CELL/IT-40/2019-20/039 Dt.10/08/2019	M/S TECHNO INDIA, JORHAT	Supply of HP Printers	9218P01082	24/08/2019.	130461.00	
Main Frame Computer	GEMC-51168702882172 Dt.24/10/2019	M/S true Service Pvt.Ltd.Guwahati	Supply of Alcatel-Lucent 8001G IP-Phone	92.000056	17/03/2020.	59795.00	
Main Frame Computer	GEMC-51168702882172 Dt.24/10/2019	M/S true Service Pvt.Ltd.Guwahati	Supply of Alcatel-Lucent 8001G IP-Phone	9218P015	16/03/2020.	7957.00	
Asset of Minor Value750/- to 5000/-	Through Annexure-C by Dr. D.C Hatoi	Apex International(Amazon)	Apex Digital Steriliser 12"	9218P00081	01/08/2019.	3250.00	68300.00
Asset of Minor Value750/- to 5000/-	HSP/ADMN-01/2019-20/0082 Dt.28/12/2019.	THUMOHO NGULLIE	Supply of Wooden Cot/Bed for CISF	92130469	03/01/2020.	65050.00	
					Total:	5767647.00	5767647.00

Addition of assets during Financial year 2020-2021

Head of account	Work/Supply Order Reference	Name of the Contract Supplier	Description	Voucher / JV No	Date of Completion	Total Addn	Total Addn
Prot Bldg (Non Resi)	NEEPCO/CHEP/ CA&D/ Sr.M (C)/T-9/2019-20/1321 Dt.02.03.2020	Shri.Benjamin Lotha	Contstn.of Shed for Fire Tender Vehicle	0220P00374	16.06.2020.	386842.00	386842.00
Dam/Reservoir/Spillway	NEEPCO/DHEP/D&S/DAM/PT-29/2018-19/315 Dt.09/10/2018.	M/S Elcome Technologies Pvt. Ltd.	Dam safety monitoring control Room @ HQ Shillong	2200428	03/07/2019.	265938.00	1737194.00
Dam/Reservoir/Spillway	NEEPCO/CE/DGP/ CA/PF/GI/W/S-843/ Dt.06/	Komoline Aerospace Limited	Supply & Inst.of Automatic Wheather station	2200851	19/03/2021.	1451194.00	
Transformer Having a rating of 100 to 21/37 Dt.06.08.2020	NEEPCO/DHEP/GM/EM/HQ/W-410/09-20/	M/S GLOCON	Supply of Current Transformer,CTR-600-400/5A	0220P01691	21/02/2021.	2833356.00	2833356.00
T&P (ordinary)	DHEP/NEEPCO/LM/WDT-7/2020-21/142 Dt.29/09/2020	M/s Calcutta Anodising Works.	Procurement of Aluminium & FRP Ladders	0220P01477	29/11/2020.	58186.00	68186.00
T&P (ordinary)	Procured through Tamlu Advance	Nagaland Engineering Store	Procurement of Makita Hammer Drilling Machine	2200477	19/12/2020.	10000.00	
Plants& Machinery in Gen Sh-(plant)	DHEP/DGM(E)/HQ(M)/2020-21/T-4/68 Dt.30.09.2020	JECKSON ENTERPRISES	Supply of Trolley Mounted Oil Centrifuge(Turbine oil filtration plant)	0220P01753/02200918	15/01/2021.	1030084.00	6912913.00
Plants& Machinery in Gen Sh-(plant)	DHEP/GM (EM)/HQ/W-1/2019-20/1200 Dt.27/02/	M/S Hydrotech Engineering, Kolkata	Procurement of Drainage and Dewatering Pump	0220P0645	27/03/2021.	4389525.00	
T&P (Special)	NEEPCO/DHEP/GM/EM/HQ/CIVIL-01/2019-20/1	M/s Tele-Tronics Pvt. Ltd.	Procurement of 100KV Modelised Oil Test Set	0220P00477	15/05/2020.	66665.00	66665.00
Main Frame Computer	NEEPCO/DHEP/IT/CELL/IT-19/2020-21/127 Dt.0	M/S Chrysenix Solution Pvt. Ltd.	Procurement of HP InkTank 315 Printer	0220P00868	07/10/2020.	13300.00	119203.00
Main Frame Computer	NEEPCO/DHEP/IT/CELL/IT-19/2020-21/912 Dt.1	M/S Chrysenix Solution	Procurement of Dell Desktop Computer & HP Printers	0220P0	31/10/2020.	87400.00	
Main Frame Computer	GEMC-51168702176726 Dt.22/09/2020	INDIAN EXPORTS AND IMPORTS CO	Procurement of 11 Nos. hp Intel Core i5 14 inch Laptop(Window 10 Professional)	0220P0	30/11/2020.	921852.00	
Main Frame Computer	DHEP/IT CELL/IT-19/2020-21/1081 Dt.11/11/2020	M/S ESKAY SOLUTIONS	Procurement of 4 Nos.Hikvision CCTV	0220P01594	01/12/2020.	69951.00	
Main Frame Computer	DHEP/IT CELL/IT-19/2020-21/1618 Dt.12/02/202	M/S ESKAY SOLUTIONS	Procurement of 5 Nos. HP m111w(Colorful) Printer	0220P01510	20/02/2021.	12600.00	
Office equipment	PERSA/DHEP/0920-21/081 Dt.01/07/20	M/S Wokha Hardware, Wokha	Procurement of Healthcare Classica Dispenser	0220P00553	13/07/2020.	62637.00	69969.00
Office equipment	PERSA/DHEP/0920-21/031-53 Dt.09/06/2020.	M/S Wokha Hardware, Wokha	Procurement of Healthcare Classica Dispenser	0220P01784	10/09/2020.	39412.00	
Hospital equipment	NEEPCO/DHEP/PMR/DR-2/2020-21/04 Dt.-/0.5.	M/S Renata Enterprises Ghy	Supply of C.P.BRELLI Mist Blower Machine	0220P00237	26/08/2020.	32488.00	32488.00
Misc. equipment	NEEPCO/DHEP/D&S/Dr. MG/T-63/2020-21/9	M/s Sengupta Automobiles	Trac. Dt.Kirloskar Make KDS 1040, 10 HP openwell submersible Pump	0220P0	31/08/2020.	35439.00	35439.00
Asset of Minor Value750/- to 5000/-	Purchase through Annexure C	N.Chanthungo Dayan Sr.MS	Procurement of Weed Sprayer	0220P00776	04/09/2020.	7000.00	52291.80
Asset of Minor Value750/- to 5000/-	DHEP/NEEPCO/LM/WDT-17/2020-21/99 Dt.26/08/2020	Ganapati Trade & Electricals	Procurement of Ceiling Fans	0220P0277	09/09/2020.	23480.00	
Asset of Minor Value750/- to 5000/-	DHEP/NEEPCO/LM/WDT-19/2020-21/76 Dt.11/08	Ganapati Trade & Electricals	Procurement of Ceiling Fans	0220P0325	15/10/2020.	29480.00	
Asset of Minor Value750/- to 5000/-	Through Imprest Account/Dr. D.C Hatoi	Amazon.in	Procurement of Digital BP Monitor	0220P01208	28/10/2020.	1399.00	
Asset of Minor Value750/- to 5000/-	Purchase through Annexure C	J.C Deka	Procurement of Drilling Machine, 13MM/710W	0220P01808	16/03/2021.	3864.00	
Asset of Minor Value750/- to 5000/-	Purchase through Annexure C	Tulip Sales Mohanpara	Procurement of Upper Arm BP Monitor BM-21	02200582	11/03/2021.	1708.00	
					Total:	13429797.80	13429797.80

Addition of assets during Financial year 2021-2022

Head of account	Work/Supply Order Reference	Name of the Contract Supplier	Description	Voucher / JV No	Date of Completion	Total Addn.	Total Headwise
Pvt. Building/Road	NEEPCO/Dir-EP/R&B/SD-31/11/ISH-09 DTD 15.03	A PETER JAM	CONSTRUCTION OF BARRACK @ CHP D/Tawari	12000159	24/07/2021.	971994.00	971994.00
Pvt Bldg (Non Resi)	NEEPCO/Dir-EP/R&B/T-6/20-21/1704 Dt.15.03.2	FITHUNGO NGULLIE	CONSTRUCTION OF CHP KITCHEN	12000127	29/09/2021.	754696.00	754696.00
Transformer having a rating of 100 M	DHEP/EP/T&M/HSC/M-2/2021-22/T-4/79 Dt.03.06.2021	M/S GLOCON	Supply & Inst. of RIP BUSHING for 145 KV,800 A,400/2/1 Transformer	5100884197	21/01/2022.	8687921.84	8687921.84
Plant& Machinery in Gen.Stn.(plant)	DHEP/DGM(E/M) HQ/CMVT/~402021-22/2153 Dt. 18	Permasure Machines Pvt.Ltd.	Proc.of Permasure Electrostatic liquid cleaner	12287000980	07/09/2021.	1506696.80	13714487.28
Plant& Machinery in Gen.Stn.(plant)	DHEP/DGM(E/M) HQ/CMVT/~402021-22/1111 Dt.1	Oriental Engineering works (P) Ltd.	Supply & Installation of Double acting Brake and cooling Power	5100903458	13/01/2022.	7639031.28	
Plant& Machinery in Gen.Stn.(plant)	DHEP/DGM(E/M) HQ/CMVT/~402021-22/1184 Dt.0	BHEL BHOPAL	WOUND ROLE ASSY(Universal type)	5100903497	15/01/2022.	1827755.80	
P&P Material	DHEP/DGM(E/M) HQ/CMVT/~402021-22/648 Dt.13	Polarity Technologies Pvt. Ltd.	Proc.of Tan delta & capacitance measurement kits	12287003967	13/07/2021.	3027320.80	6030064.60
P&P Material	DHEP/DGM(E/M) HQ/CMVT/~402021-22/1123 Dt.2	Universal Industrial Corporation	Supply & Inst. Of Portable Dissolved Gas Analyser	5100900000	12/01/2022.	3002744.80	
11 kV Line	NEEPCO/DHEP/DGM(E/M)/HSC/W-03/2021-22/3	Shivagar Industries	Supply and commissioning of 11 KV Distribution panel	5100903445	31.03.2022	2382307.03	2382307.03
Main Frame Computer	Srv. No.BDM/0010 dt.05.09.2021	Zebar Solutions, Golaghat	Proc.of Desktop PC/Lenovo	5100901977	03/09/2021.	42349.60	334849.60
Main Frame Computer	DHEP/IT CELL/IT-10/R2K3-2018/16 Dt.16.03.2022	M/S Crossserve Solution	Supply of 5 Nos. Dell Desktop Computer	5100904087	28.03.2022	292500.00	
Office equipment	DHEP/GM(E/M)/HSC/W-02/2021-22/3126 Dt.22	SHIVAM TRADE & AGENCIES	Proc.of AC LLOYD Make for T/Clamp Golaghat	12287003002	11.08.2021	83713.00	167873.00
Office equipment	NEEPC/DHEP/GM(E/M)/HQ/CIVIL-03/2021-22/2	SHIVAM TRADE & AGENCIES	Supply of Inverter Split AC 4 star 1.5T, Model: 2026142HP	5100903247	29.03.2022	84760.00	
Hospital equipment	NEEPCO/DHEP/MISC/DE-23/2021-22/240 Dt.17.09	ASTHA ENTERPRISE	Procurement of 2 Nos Oxygen Concentrator	12287003113	30/09/2021.	212380.00	515773.65
Hospital equipment	NEEPCO/DHEP/MISC/DE-03/2021-22/2 Dt.26.05	Astha Enterprise Sivasagar	Proc.of Hospital equipments	12287002436	01.07.2021.	283967.65	
Hospital equipment	Through Advance	Dr. G. D Hako	Proc.of LG 7Kg Fully Automatic Washing Machine	2110004800	15/11/2021.	22900	
Asset of Minor Value(750/- to 1000/-	NEEPCO/DHEP/MISC/DE-03/2021-22/250 Dt.26.05	Astha Enterprise Sivasagar	Proc.of Hospital Equipments	12287003436	01.07.2021.	12901.35	19901.35
Asset of Minor Value(750/- to 1000/-	NEEPCO/DHEP/GM(E/M)/HQ/CIVIL-03/2021-22/256 Dt.30.08.2021	M/S Ganapati Trader & Electricals	Proc.of POLYCAB PADESTAL FAN	12287003436	01.08.2021.	4200	
Asset of Minor Value(750/- to 1000/-	mr. No.RDB/0010 dt.28.08.2021	Eklavy Solutions, Golaghat	Procurement of UPS 600VA Zebronics	5100903871	30/09/2021.	2099	
					Total	34502936.75	34502936.75

Addition of assets during Financial year 2022-2023

Head of account	Work/Supply Order Reference	Name of the Contract/ Supplier	Description	Document No	Date of Completion	Total Addn	Head Total Addn
Water supply, sewerage&drainage	NEEPCO/CP/DGM/PTP/CC/DHEP-03A/2021-22/960 Dt.18/08/2021	Global Aquatech(P Khuteni	Supply,Construction and Installation of Potable water Treatment Plant	2201002710-21821709	29.09.2022	27027585.00	27027585.00
Dam/Reservoir/Spillway	NEEPCO/CE/Dir/Contract/DHEP-47/PT-II/06-07/2005 Dt.13.12.1996	Dicardo-Rist/Electronics Pvt. Ltd.	Supply and Installation of Instrument for Rockfill Dam & Spillway of DHEP	5100813600 Dt.15.01.2023	15.01.2023	421700.00	421700.00
Electrical & Ancillary equipment	NEEPCO/DHEP/DGM(E.)/HSC/M-2/2021-22/T-4/200 Dt.27/09/2022	Nanmap Sales Corporation(100102)	Supply & Install & Comm of Battery Bank	Doc. No.2201000498 & 0491	17.10.2022	1907479.00	1907479.00
Fire fighting equipment	NEEPC/DHEP/GM(E/M)/HQ/CIVIL/W-03/2021-22/T-4/170 Dt.16.10.2022	Safe N Secur Fire Systems	Design,Drawing,Engineering, Mfg. of Fire & Safety Equipment	5100816222 Dt.20.03.2023	24.01.2023	2169104.00	2169104.00
Transformer having a rating of 160 M	No.RDB/PCC/GM/CE&P/EQT/proc/DHEP/VIA Dt.09.12.2022&2023	M/s BHEL,Jhansi	Supply & Instn. of 26.5 MVA GT	5100905844	29.05.2022	5913549.00	5913549.00
TMP (unknown)	SAO, NEEPCO/DHEP/PCD/DMR/gp/dc/2021-22/T-4/208 Dt.07.03.2022	CHINGALIA INDUSTRIAL PRODUCT	Hydraulic torque wrench Make: AIRCRECOM	5100887103	12.05.2022	1640307.00	4358742.00
TMP (unknown)	NEEPC/DGM(E/M)/HQ/CIVIL/W-03/2021-22/T-4/170 Dt.16.10.2022	Techno Serv Eng.System P Ltd.(3003	Supply of 2 Nos. 80HP Non-clog Submersible Pump	5100905807	04.07.2022	2718435.00	
400/220/132 KV Switch-yards &	Supply of 145KV SF6 CB (3Ø), Type: 120 BFM-40AA,	M/S GLOCON	Supply of 145KV SF6 CB (3Ø), Type: 120 BFM-40AA,	5100905823	29.04.2022	2858688.00	2858688.00
Plant& Machinery in Gen.Stn.(p	NEEPCO/DHEP/DGM(E.)/HQ/CMVT/2021-22/T-4/170 Dt.16/11/2021	Industrial Pump & Motor Agencies	Supply of Typical Tank Mounted pump for Water Turbine Governor	5100905905	28.04.2022	2209000.00	65613445.00
Plant& Machinery in Gen.Stn.(p	NEEPCO/DHEP/DGM(E.)/HQ/CMVT/2021-22/T-4/141 Dt.09/08/2021	M/S BHEL-KOLKTA	Supply of Thrust Pad Set & Guide Pad Set LGB	5100905156	15.06.2022	4843089.80	
Plant& Machinery in Gen.Stn.(plant)	NEEPCO/DHEP/DGM(E.)/HQ/CMVT/2021-22/T-4/141 Dt.09/08/2021	M/S BHEL-KOLKTA	Oil cooler for bottom bracket. Make: BHEL	5100915778	44/10	3199283.80	
Plant& Machinery in Gen.Stn.(plant)	NEEPCO/DHEP/DGM(E.)/HQ/CMVT/2021-22/T-4/141 Dt.09/08/2021	M/S BHEL-KOLKTA	GV Cover plate, Split Dowel, GV Lever, adapter M30	5100911791	05.11.2022	5191040.80	
Plant& Machinery in Gen.Stn.(plant)	NEEPCO/DHEP/DGM(E/M)/HQ/CMVT-I/2210-19/098 Dt.05.03.2019	M/S ABB Ltd.	Supply, Installation , Retrofitting, Testing & Commissioning of Synchrony plus base Unit Protection Energy metering and Auto synchronising system	3001003511	01.07.2022	2437867.60	
Plant& Machinery in Gen.Stn.(plant)	NEEPCO/DHEP/DGM(E/M)/HQ/CMVT/2021-22/T-4/064 Dt.04.02.2022	M/S TIRUPATI CORP PVT.LTD	Design,Mfg.,Testing &supply of 75KW DFAF Unit Coolers & PLC Control System	5100915853 & 5100916870	15.03.2023	9410000.00	
Plant& Machinery in Gen.Stn.(plant)	NEEPCO/DHEP/DGM(E/M)/HQ/CMVT/2021-22/T-4/141 Dt.09/08/2021	M/S BHEL-Bhopal(100177)	Supply of Oil Cooler for Turbine Guide bearing(TGB) Housing	5100915870 Dt.15.03.2023	09.12.2023	6986268.99	
Outdoor Electrification	DMMD-01/1997/1003/6486 Dt.1.03.2022	M/S Sureshkrishna Gurugram,HR	Supply & Inst.of High Mast LED Light	SA/2021/108	11.07.2022	1769528.00	1769528.00
Transport equipment	GEMC-51/457783/0186/26 Dt.18.04.2022	M/S Tata Motors Ltd.	Price of TATA 1412 LPT CK8K13 4X2/2.15/BS6/1 Engine No. 20020	5100909901	31.08.2022	3149479.28	3149479.28
Furniture & Fixture	NEEPCO/DHEP/EQ/DMMD/CONC/0000-03/T-3 Dt.24.02.2023	KUBER HAZARIKA	Supply of wooden Schobed side Table and Sun lap Sofa	5100915749 Dt.23.03.2023	27.01.2023	2809808.00	2809808.00
Main Frame Computer	GEM-2/2914614/Rampillai from Vishaung	M/S BMG Info Pvt Ltd	Proc.of 20 nos.Desktops with 19.5" Monitor Make: HP Model: HP 400 G7 SF	2201901696	29.04.2022	7832778.00	1229941.81
Main Frame Computer	GEM D-07 /3977/0/1/8997 Dt.26.11.2022	M/S VISHAL SHARMA(120816)	Proc.of 2 Nos AVISION SCANNER DL-7700W	5100912749 Dt.11.01.2023	16.01.2023	2639798.00	
Main Frame Computer	GEM-2/7042599	M/S Solezone Internet Services	Proc.of 2 Nos HP Laptop 440G8	5100915883 Dt.30.03.2023	03.03.2023	1223798.00	
Main Frame Computer	AM20-22/1737	M/S INFOTECH SOLUTION	Supply of HP Laptop 440G8	5100915883 Dt.16.03.2023	10.03.2023	1093779.81	
Guest House equipment	Through Advance	L.Y Khumlai	Procurement of L/S. Washing Machine 7.5 Kg	2210003809	30.03.2022	11952.00	11952.00
Misc. equipment	BMMC-01/1997/1332/0406 Dt.11.03.2022	HUB SERVICE PVT. LTD.	Supply of Display and VC Camera	5100905858	31.04.2022	8643113.29	8643113.29
Asset of Minor Value(750/- to 1000/-	Through Advance	Asstt.Commandant CISF Doyang Unit	Proc. Of Mc/Gh Ing Machine and Exhaust Fan	2210003804	06.06.2022	3480.00	3480.00
					Asstt.Armoure Officer		
					Total	198189231.53	198189231.53

Addition of assets during Financial year 2023-2024

GL Code	Description	Name of the Contract Supplier	Description	Document No	Date of Completion	Total
514209	Asset of Minor Value750/- to 5000/-	R C Murry	Proc.of Pedestal(2Nos) & Ceiling Fan(5 Nos) Through Annex-C	2319000678	05.04.2023	16370.00
513206	Hospital equipment	M/s Super Tech Instruments, Aizawl	Galvanized Steel Ice Lined Refrigerator	5105617556	24.04.2023	147000.00
514209	Asset of Minor Value750/- to 5000/-	K Z Ovung	Proc.of Ceiling Fan(5 Nos) Through Annex-C	2319007176	06.06.2023	15500.00
513103	Other E.D.P Machines	Indian Export Import Co./10005	Proc.of HP Intel Core i5 14 Inch Laptop	5105827040	13.07.2023	78893.00
514209	Asset of Minor Value750/- to 5000/-	Nhumthung N Paton	Wall mount, Fan-19 inch 220-240 Volt,AC 50Hz Single Phase	2319012593	14.08.2023	2598.00
514209	Asset of Minor Value750/- to 5000/-		ENCYCLOPEDIA GRAMMER Books	2319020314	15.11.2023	3899.00
514202	Misc. equipment	Ram Bhandra Associates	Cub Cadet Wheeled String Trimmer, 173cc	2319030355	03.11.2023	53600.00
512166	Plant& Machinery in Gen.Blk.(plant)	Industrial Pumps & Motors	Screw Pump for Oil Pressure Unit, S/N:A2054778/03-8	5105827297	18.11.2023	5044826.00
514202	Misc. equipment	STAG Global Pvt.Ltd.	STAG Americas 16 Table Tennis Table	2319033478	22.11.2023	68799.00
513209	Hospital equipment	VINAYAK SUPPLY SYNDICAT	SS Fogging Machine	2319034802	10.01.2024	40560.00
514202	Misc. equipment		Make:Fully automatic with auto cut off RO+UV+UF+Alkaline PotableWater	5105835283	07.02.2024	200388.40
513103	Other E.D.P Machines	M/S Indian Export Import Co.	15 Nos. HP ProBook 440G9 PN:6F8R0AV	2319038419	10.01.2024	1993837.44
512166	Plant& Machinery in Gen.Blk.(plant)	Pinsidy Technologies Pvt.Ltd.	Resonating Inductor Type C, Make Dotdy USA, Model Type C Resonatin	5105830660	14.02.2024	2217990.00
513103	Other E.D.P Machines	Pinsidy Technologies Pvt.Ltd.	Laptop: HP/DELL/Lenovo, 11th Generation i3/i5/i7 RAM/512GB SSD-eith	5105830660	14.02.2024	93636.00
513209	Hospital equipment	M/s Krishna Medtech	AUTOMATIC EXTERNAL DEFIBRILATOR(AED) for ECG	2319027139	27.01.2024	98500.00
513209	Hospital equipment	M/S Ashok Enterprise	Macormed ECG MACHINE 12 CHANNEL	2319027141	05.02.2024	99240.00
513103	Other E.D.P Machines	Jintech Computer Care	Dell I5 Win 11Pro Laptop; Dell Optiplex 3001 Tower Desktop i5 w11	2320011998	23.02.2024	234100.48
513081	Furniture & Fixture	KUBID HAZARIKA	Wooden Conference Table	5105830034	21.03.2024	129800.00
513081	Furniture & Fixture	KUBID HAZARIKA	Wooden Office Desk of HoPs	5105830034	21.03.2024	70900.00
512311	Outdoor Electrification	INDUSTRIAL ASSOCIATES	Installation of Led Street Light	2321031199	22.03.2025	2133288.00
513103	Other E.D.P Machines	M/S Planet Computer	HP Laserjet Pro MFP 4104dw	5105830707	28.03.2025	44499.00
						12133071.15

Addl/Cap Sum yearwise		Amount	in Lakhs	As per Trading Ac
2019-20		3937852.00	39.38	39.38
2020-21		1242707.00	12.43	12.43
2021-22		3450998.75	34.51	34.51
2022-23		10610992.74	106.11	106.11
2023-24		1233320.18	12.33	12.33
	Total	20535870.67	204.96	204.96

PART-II
FORM-9C

Statement showing reconciliation of ACE claimed with the capital additions as

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION
COD *08-07-2000*

Sl No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	Remark
1	2	3	4	5	6	7	8
1	Closing Gross Block	77865.96	77980.24	78325.27	79982.33	80070.94	
2	Less: Opening Gross Block	74728.19	77865.96	77980.24	78325.27	79982.33	
3	**Total Additions as per books (X)**	370.70	124.30	345.03	1861.99	123.53	Ref.Formate 9Bii
	Toal Deletion as per book(P)	0.00	0.00	0.00	203.88	34.93	Ref.Formate 9Bi
	Net Addition Q(X-P)	370.14	124.30	345.03	1858.12	88.60	
4	Less: Additions pertaining to other Stages (give Stage wise breakup)						
5	**Net Additions pertaining to instant project/Unit/Stage**						
6	Less: Exclusions (Y)	8.28	15.40	9.81	60.45	50.30	Form 9D
7	**Net Additional Capital Expenditure Claimed Z (Q-Y)**	361.86	108.89	335.22	1797.67	38.30	
A	Approved Capital Expenditure Claimed-A	41.70	87.46	156.21	731.55	0.00	Form 9A
B	Non-Approved Capital Expenditure Claimed-B	320.72	21.44	78.08	636.84	22.78	Form 9A
C	Non-Approved High Value Spares Capital Expenditure Claimed-C	0.00	0.00	102.96	433.20	50.45	Capital Spares
D	Total D(A+B+C)	362.42	108.89	335.22	1801.59	73.23	
	Difference M (Z-D)	-0.56	0.00	0.00	-203.88	-34.93	
	Add Decap (M+P)	0.00	0.00	0.00	0.00	0.00	

Non-Approved Capital Expenditure Claimed-B	320.72	17.57	72.84	130.54	0.00
Non-Approved High Value Spares Capital Expendit	0.00	0.00	66.68	916.50	50.45

PART-II
FORM-9D

Statement showing items/assets/works claimed under Exclusions

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station :DOYANG HYDRO POWER STATION
COD 08-07-2000

Sl. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Regulation under which claimed	Justification	Remarks
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5 = (3-4)	6			
	PLANT ASSETS							
	2019-20							
1	Construction of Toilet near Security Post at Power House Store, Col-II	1.40		1.40		Minor Assets		
2	Supra inverter 401P	0.69		0.69		Minor Assets		
3	Wooden rack for Hospital use	0.08		0.08		Minor Assets		
4	Wooden Rack for Guard Files(Big)	0.10		0.10		Minor Assets		
5	Wooden Rack for Guard Files(Medium)	0.08		0.08		Minor Assets		
6	Supply & Installation of Bio-Metric Machine	3.50		3.50		Minor Assets		
7	Supply of HP Printers	1.30		1.30		Minor Assets		
8	Supply of Alcatel-Lucent 8001G IP-Phone	0.40		0.40		Minor Assets		
9	Supply of Alcatel-Lucent 8001G IP-Phone	0.08		0.08		Minor Assets		
10	Apex Digital Sterilizer 12"	0.02		0.02		Minor Assets		
11	Supply of Wooden Cot/Bed for CISF	0.63		0.63		Minor Assets		
	Total addition under Exclusions FY 2019-20	**8.28**	**0.00**	**8.28**				
	2020-21							
1	Procurement of Aluminium & FRP Ladders	0.58		0.58		Minor Assets		
2	Procurement of Makita Hammer Drilling Machine	0.11		0.11		Minor Assets		
3	Procurement of 100KV Motorised Oil Test Set	0.69		0.69		Minor Assets		
4	Procurement of HP InkTank 319 Printer	0.13		0.13		Minor Assets		
5	Procurement of Dell Desktop Computer & HP Printers	0.87		0.87		Minor Assets		
6	Procurement of 11 Nos. hp Intel Core I5 14 inch Laptop(Window 10 Professional)	9.21		9.21		Minor Assets		
7	Procurement of 4 Nos.Hikvision CCTV	0.89		0.89		Minor Assets		
8	Procurement of 5 Nos. HP M11136(CE849A) Printer	0.72		0.72		Minor Assets		
9	Procurement of Healthpure Classica Dispenser	0.63		0.63		Minor Assets		
10	Procurement of Healthpure Classica Dispenser	0.27		0.27		Minor Assets		
11	Supply of CIFERELLI Mist Blower Machine	0.32		0.32		Minor Assets		

12	Proc. Of Kirloskar Make KOS 1040, 10 HP openwell submersible Pump	0.35		0.35		Minor Assets		
13	Procurement of Weed Sprayer	0.07		0.07		Minor Assets		
14	Procurement of Ceiling Fans	0.22		0.22		Minor Assets		
15	Procurement of Ceiling Fans	0.26		0.26		Minor Assets		
16	Procurement of Digital BP Monitor	0.02		0.02		Minor Assets		
17	Procurement of Drilling Machine, 13MM/710W	0.04		0.04		Minor Assets		
18	Procurement of Upper Arm BP Monitor BM-27	0.02		0.02		Minor Assets		
	Total addition under Exclusions FY 2020-21	**15.40**	**0.00**	**15.40**				
	2021-22							
1	Proc.of Desktop PC-Lenova	0.42		0.42		Minor Assets		
2	Supply of 5 Nos. Dell Desktop Computer	2.93		2.93		Minor Assets		
3	Proc.of AC LLOYD Make for T/Camp Golaghat	0.53		0.53		Minor Assets		
4	Supply of Inverter Split AC, 4 star 1.5T, Model: LS18142MP	0.55		0.55		Minor Assets		
5	Procurement of 2 Nos Oxygen Concentrator	2.13		2.13		Minor Assets		
6	Proc.of Hospital Equipments	2.84		2.84		Minor Assets		
7	Proc.of LG 7KG Fully Automatic Washing Machine	0.22		0.22		Minor Assets		
8	Proc.of Hospital Equipments	0.13		0.13		Minor Assets		
9	Proc.of POLYCAB PADESTAL FAN	0.04		0.04		Minor Assets		
10	Procurement of UPS 600VA Zebronics	0.02		0.02		Minor Assets		
	Total addition under Exclusions FY 2021-22	**9.81**	**0.00**	**9.81**				

	2022-23							
1	Supply & Inst.of High Mast LED Light	17.99		17.99		Minor Assets		
2	Proc.of TATA 1412 LPT DCR42 HSD125B6N5 Engine No.20026	21.48		21.48		Minor Assets		
3	Supply of wooden Sofa,bed side Table and Dunlop Sofa	2.89		2.89		Minor Assets		
4	Proc.of 10 nos.Desktop with 19.5" Monitor Make: HP Model: HP 400 G7 SFF	7.89		7.89		Minor Assets		
5	Proc.of 7 Nos AVISION SCANNER(DL-1707B)	2.03		2.03		Minor Assets		
6	PROC.OF BIOMETRIC MACHINES-7 NOS	1.32		1.32		Minor Assets		
7	Supply of HP Laptop 440G8	1.05		1.05		Minor Assets		
8	Procurement of L.G. Washing Macchine 7.5 Kg	0.11		0.11		Minor Assets		
9	Supply of Display and VC Camera	5.64		5.64		Minor Assets		
10	Proc. Of Weighing Machine and Exhaust Fan	0.03		0.03		Minor Assets		
	Total addition under Exclusions FY 2022-23	**60.45**	**0.00**	**60.45**				
	2023-24							
1	Installation of Led Street Light	21.03		21.03		Minor Assets		
2	Wooden Conference Table	1.30		1.30		Minor Assets		
3	Wooden Office Desk of HoPs	0.71		0.71		Minor Assets		
4	Proc.of HP Intel Core i5 14 Inch Laptop	0.79		0.79		Minor Assets		
5	16 Nos. HP ProBook 440G9 PN-678R0AV	15.84		15.84		Minor Assets		
6	Laptop: HP/DELL/Lenova, 11th Generation i5/8GB RAM/512GB SSD-attached to resonating Inductor	0.93		0.93		Minor Assets		
7	Dell i5 Win 11Pro Laptop; Dell Optiplex 3000 Tower Desktop i5 w11; Dell Optiplex 3000 Tower Desktop i5 w11	2.34		2.34		Minor Assets		
8	HP Laserjet Pro MFP 4104dw	0.44		0.44		Minor Assets		
9	Galvanized Steel Ice Lined Refrigerator	1.47		1.47		Minor Assets		
10	SS Fogging Machine	0.46		0.46		Minor Assets		
11	AUTOMATIC EXTERNAL DEFIBRILATOR(AED)-for ECG	0.89		0.89		Minor Assets		
12	Nicomed ECG MACHINE 12 CHANNEL	0.58		0.58		Minor Assets		
13	Cub Cadet Wheeled String Trimmer, 173cc	0.53		0.53		Minor Assets		
14	STAG Americas 16 Table Tennis Table	0.66		0.66		Minor Assets		
15	kent Fully automatic with auto cut off RO+UV+UF+Alkaline Potable Water Purification System	2.00		2.00		Minor Assets		
16	Proc.of Pedestal(2Nos) & Ceiling Fan(5 Nos) Through Annex-C	0.16		0.16		Minor Assets		
17	Proc.of Ceiling Fan(5 Nos) Through Annex-C	0.11		0.11		Minor Assets		
18	Wall mount Fan-16 Inch 220-240 Volt AC 50Hz Single Phase	0.03		0.03		Minor Assets		
19	ENCYCLOPEDIA GRAMMER-Books	0.04		0.04		Minor Assets		
	Total addition under Exclusions FY 2023-24	**50.30**	**0.00**	**50.30**				

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 not in sending station or in both the station.

(Petitioner)

Yearwise Exclusion which is matched with Format 9C(Y)		In Lakhs
2019-20	8.28	8.28
2020-21	15.40	15.40
2021-22	9.81	9.81
2022-23	60.45	60.45
2023-24	50.30	50.30
	Total:	144.24

2019-20	2020-21	2021-22	2022-23	2023-24
8.28	15.40	9.81	60.45	50.30

For reconciliation

Year	Form 9A	Capital Spare	Exclusion	Total Addition	Difference	As per Addition Schedule
2019-20	362.42	0.00	8.28	370.70	0.00	370.70
2020-21	108.89	0.00	15.40	124.30	0.00	124.30
2021-22	232.27	102.95	9.81	345.03	0.00	345.03
2022-23	1368.34	433.20	60.45	1861.99	0.00	1861.99
2023-24	22.78	50.45	50.30	123.53	0.00	123.53
Total:	2094.71	586.61	144.24	2825.56		

PART-II
FORM-9E

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

Statement of Capital cost
(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening Gross Block Amount as per books	77495.00	77555.06	77980.24	78325.27	79982.33
	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)	60.69	120.43	249.90	537.78	102.50
	Get back of asset withdrawn from active use					
	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)	280.00	3.87	95.12	1323.10	31.00
	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	0.55	0.00	0.00	203.88	34.93
	Lease hold land transfer from Fixed Asset					
	Asset withdrawn from active use					
	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	77555.06	77980.24	78325.27	79982.33	80370.94
	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-II
FORM-9F

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

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

(Amount in Rs. Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening CWIP as per books	281.39	235.77	235.36	911.84	7.90
	b) Amount of IDC in A(a) above					
	c) Amount of FC in A(a) above					
	d) Amount of FERV in A(a) above					
	e) Amount of Hedging Cost in A(a) above					
	f) Amount of IEDC in A(a) above					
B	a) Addition in CWIP during the period	235.85	6.56	771.40	419.41	21.03
	b) Amount of IDC in B(a) above					
	c) Amount of FC in B(a) above					
	d) Amount of FERV in B(a) above					
	e) Amount of Hedging Cost in B(a) above					
	f) Amount of IEDC in B(a) above					
C	a) Transferred to Gross Block Amount during the period	280.06	3.87	95.12	1323.15	21.00
	b) Amount of IDC in C(a) above					
	c) Amount of FC in C(a) above					
	d) Amount of FERV in C(a) above					
	e) Amount of Hedging Cost in C(a) above					
	f) Amount of IEDC in C(a) above					
D	a) Deletion in CWIP during the period	1.42	3.10	0.00	0.00	0.87
	b) Amount of IDC in D(a) above					
	c) Amount of FC in D(a) above					
	d) Amount of FERV in D(a) above					
	e) Amount of Hedging Cost in D(a) above					
	f) Amount of IEDC in D(a) above					
E	a) Closing CWIP as per books	235.77	235.36	911.84	7.90	7.03
	b) Amount of IDC in E(a) above					
	c) Amount of FC in E(a) above					
	d) Amount of FERV in E(a) above					
	e) Amount of Hedging Cost in E(a) above					
	f) 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-13 A

CALCULATION OF INTEREST ON NORMATIVE LOAN

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

(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	No normative loan is out standing					
	Cumulative repayment of Normative loan upto previous year						
	Net Normative loan - Opening						
	Add:Increase due to addition during the year / period						
	Less: Decrease due to de-capitalisation during the year / period						
	Less: Decrease due to reversal during the year / period						
	Add:Increase due to discharges during the year / period						
	Net Addition						
	Less : Repayment(s) of Normative Loan during the year						
	Repayment adjustment on a/c of de capitalization (F)						
	Net Repayment						
	Net Normative loan - Closing						
	Average Normative loan						
	Weighted average rate of interest						
	Interest on loan						

(Petitioner)

PART-II
FORM-13B

Calculation of Interest on Working Capital

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

(Amount 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)
1	Maintenance Spares	756.68	1080.08	1154.13	1148.96	1208.64	1291.31
2	Receivables	1804.82	1367.96	1404.66	1439.10	1482.11	1540.70
3	O & M Expenses	420.38	575.67	620.56	634.69	667.52	708.16
4	**Total Working Capital**	**2981.88**	**3023.71**	**3179.35**	**3222.75**	**3358.26**	**3540.17**
5	Rate of Interest	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%
6	**Interest on Working Capital**	**402.55**	**364.36**	**357.68**	**338.39**	**352.62**	**424.82**

Security Expenses(CISF) during 2019-24 DHEP							
			2019-20	**2020-21**	**2021-22**	**2022-23**	**2023-24**
Security Expenses(CISF)			1253.475445	1522.647599	1409.85992	1507.911996	1685.63241
Security Expenses(Other)			292.48065	247.43283	43.3744651	47.3476894	110.8634667
Total			**1545.96**	**1770.08**	**1453.23**	**1555.26**	**1796.50**

PETITIONER

PART-II
FORM-11

Calculation of Depreciation on original project cost

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : Doyang Hydro Electric Plant

(Amount in Rs. Lakh)

Sl. No.	Name of the Assets [1]	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4=Col.2 X Col.3
1	Land *			
2	Building			
3	and so on			
4		NOT APPLICABLE		
5				
6				
7				
8				
9				
10				
11				
12				
13				
	TOTAL			
	Weighted Average Rate of Depreciation (%)			

** Provide details of Freehold land, Lease hold land and Land under reservoir separately*

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

(Petitioner)

PART-II
FORM-12

Statement of Depreciation

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Power Station : DOYANG HYDRO POWER STATION

(Amount in lacs)

Particulars	Upto 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Capital Cost Opening	64897.29	64768.35	65130.21	65239.11	65444.40	66619.82
Capital Cost Closing	64768.35	65130.21	65239.11	65444.40	66619.82	66636.59
Average Capital Cost	64832.82	64949.28	65184.66	65341.76	66032.11	66628.20
Land Value	0.00	0.00	0.00	0.00	0.00	0.00
Rate of depreciation	NA					
Depreciable Value	58349.54	58291.52	58617.19	58715.20	58899.96	59957.83
Balance useful life	22.27	21.27	20.27	19.27	18.27	17.27
Cumulative Depreciation upto previous year	37925.94	38446.54	39379.54	40328.61	41282.77	42141.84
Remaining Depreciable Value	20423.60	19844.97	19237.65	18386.58	17617.19	17815.99
Depreciation (for the period)	917.09	933.00	949.07	954.16	964.27	1031.61
Depreciation (Annualized)	917.09	933.00	949.07	954.16	964.27	1031.61
Cumulative Depreciation at the end of the period	38843.03	39379.54	40328.61	41282.77	42247.04	43173.46
Less: Cumulative depreciation adjustment on account of undischarged liabilities deduced as on 01.04.2009/COD	0.00	0.00	0.00	0.00	0.00	0.00
Less: Cumulative depreciation adjustment on account of decapitalization (Refer: Form 9B)	396.49	0.00	0.00	0.00	105.19	30.01
Net Cumulative Depreciation at the end of the period	38446.54	39379.54	40328.61	41282.77	42141.84	43143.45

PETITIONER

PART-II
FORM-13

Calculation of Weighted Average Rate of Interest on Actual Loans

For HQ

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

(Amount in lacs)

Sl.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	**Loan 1**						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
2	**Loan 2**						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
3	**Loan 3**						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						

4	**Loan 4**						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
5	**Loan 5**						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
6	**Loan 6**						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						
	Rate of Interest on Loan						
	Interest on loan						
	Total Loan						
	Gross loan - Opening						
	Cumulative repayments of Loans upto previous year						
	Net loan - Opening						
	Add: Drawal(s) during the Year						
	Less: Repayment (s) of Loans during the year						
	Net loan - Closing						
	Average Net Loan						

	Interest on loan						
	Weighted average Rate of Interest on Loans						

PETITIONER

PART-II
FORM-13A

Calculation of Interest on Normative Loan

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

For HQ

Name of the Generating Station : DOYANG HYDRO POWER STATION

(Amount in lacs)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	No normative loan outstanding					

PETITIONER

PART-II
FORM-13C

Non-Tariff Income

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

(Amount in Rs. Lakh)

Sl. No.	Parameters	Upto 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Interest on Loans and advance		1.12	0.51	0.60	1.20	0.44
2	Interest received on deposits		0.00	0.00	0.00	0.00	0.00
3	Income from Investment		0.00	0.00	0.00	0.00	0.00
4	Income from sale of scrap		0.00	0.00	0.00	0.60	0.00
5	Rebate for timely payment		0.00	0.00	0.00	0.00	0.00
6	Surcharge on late payment from beneficiaries		0.00	0.00	0.00	0.00	0.00
7	Rent from residential building		0.00	0.00	0.00	0.00	0.00
8	Misc. receipts (Please Specify Details)		0.00	0.00	0.00	0.00	0.00
...	i)Transit Hostel recovery		0.86	0.50	0.80	0.74	1.13
	ii) LD recovery from O&M Works		0.00	0.00	5.03	0.04	0.00
	Total Revenue		**1.97**	**1.01**	**6.43**	**2.57**	**1.57**
...	...						
...	... (add)						

(Petitioner)

PART-II
FORM-14A

Actual Cash Expenditure

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

(Amount in Rs Lakh)

Particulars	Quarter-I	Quarter-II	Quarter-III	Quarter-n (COD)
1	2	3	4	5
Expenditure towards Gross Block				
Add:expenditure towards CWIP				
Add:Capital Advances,if any.				
Less:Undischarged liabilities (included above)				
Add/Less: Others				
Payment to contractors / suppliers towads capital assets			Not applicable Now	
Cummulative payments				

65

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

(Petitioner)

PART-II
FORM-15A

PERIOD 2019-24

Design energy and peaking capability (month wise)- ROR with Pondage/Storage type new stations

Generating Company: North Eastern Electric Power Corporation Ltd

Name of the Generating Station : DOYANG HYDRO POWER STATION

Installed Capacity: No of units3 X25 .MW= 75			
Month		**Design Energy* (MUs)**	**Designed Peaking Capability (MW)***
April	I	11.52	17
	II		
	III		
May	I	12.79	31
	II		
	III		
June	I	22.9	51
	II		
	III		
July	I	14.28	58
	II		
	III		
August	I	55.8	65
	II		
	III		
September	I	31.97	70
	II		
	III		
October	I	20.01	68
	II		
	III		
November	I	11.52	62
	II		
	III		
December	I	11.9	58
	II		
	III		
January	I	11.9	52
	II		
	III		
February	I		

	II	10.75	46
	III		
March	I	11.9	32
	II		
	III		
Total			

*As per DPR/TEC of CEA dated.....

Note :
Specify the number of peaking hours for which station has been designed.

PETITIONER

PART-II
FORM-15B

Design energy and MW Continuous (month wise) - ROR type stations

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

Generating Company ———			
Name of Hydro-electric Generating Station : ———			
Installed Capacity : No of units X MW =			
Month		Design Energy * (MUs)	MW Continuous *
April	I		
	II		
	III		
May	I		
	II		
	III		
June	I		
	II		
	III		
July	I		
	II		
	III		
August	I		
	II		
	III		
September	I		
	II		
	III		
October	I		
	II		
	III		
November	I		
	II		
	III		
December	I		
	II		
	III		
January	I		
	II		
	III		
February	I		
	II		
	III		
March	I		
	II		
	III		
TOTAL			
* As per DPR / TEC of CEA dated ———			

(Petitioner)

PART-II
FORM-16

Statement of Liability Flow

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

₹ in lakh

Party	Asset / Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2019	Discharges (Yearwise)					Total discharged	Reversal (Yearwise					Total reversed	Liability as on 31.03.2024
					2019-20	2020-21	2021-22	2022-23	2023-24		2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6						7						
a) For assets eligible for normal RoE																	
M/S BEL	[illegible]	2000-2001		92.10	0	0	0	0		0	0	0	0.00	0	0	0	92.10
M/S Cimco Birla L	[illegible]	2000-2001		2.00	0	0	0	0		0	0	0	0.00	0	0	0	0.00
M/S G B J Infra L	[illegible]	2000-2001		22.41	0	0	0	0	21.58	21.58	0	0	0.00	0	0.82	0.82	0.00
M/S TPL	[illegible]	2000-2001		23.40	0	0	0	0		0	0	0	23.4	0	0	23.4	0.00
M/S Radha Madhe	[illegible]	2000-2001		1.58	0	0	0	0		0	0	0	1.575	0	0	1.575	0.00
				141.48	0.00	0.00	0.00	0.00	21.58	21.58	0.00	0.00	26.98	0.00	0.82	27.80	92.10
b) For assets eligible RoE at weighted average rate of interest on loan																	

(Petitioner)

PART II
FORM 17

Operation & Maintenance Expenses

Incase of Hydro generating station declared under commercial operation on or afte 01.04.2019

Total capital expenditure upto cutoff date (a)	
R&R expenditure (b)	
IDC & IEDC ©	
Capital Cost considered for O&M expense (d)=(a)-(b)-©	Separate Sheet attached
First year annualize O&M expense @ 3.5% of above (e)=3.5% of (d)	
O&M expense for next year @ 4.7% of above (f) =4.7% of (e)	
Additional O&M expenses due to 7th Pay Commission Wage Revision	
Additional O&M expenses due to Minimum Wage Revision	
Additional O&M expenses due to Goods & Service Tax (GST)	

Note:Additional O&M expenses with supporting documents and computations to be provided for respective year of Tariff Period.

PART II
FORM18

Details of Statutory Charges (If Applicable)

Sl. No	Particulars	Unit Rate	No of Units	Amount Claimed
1	Electricity Duty	0	0	
2	Water Cess	0	0	
3				

(Petitioner)

PART II
Form – 19

Summary of issue involved in the petition

1	Petitioner:				
2	Subject:				
3	Prayer:				
4	Respondents				
	Name of Respondents				
	a				
	b				
	c				
5	Project Scope :				
		IC			
		DE			
		FEHS			
		AUX			
		NAPAF			
	Cost				
		Sanction Cost			
		Latest RCE			
	Commissioning	Unit/Station COD			
	Claim	AFC			
		Capital cost			
		Initial spare			
		NAPAF			
		Design Energy			
		Any Specific			

CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 232/GT/2020

Coram:
Shri P.K. Pujari, Chairperson
Shri I.S. Jha, Member
Shri Arun Goyal, Member
Shri Pravas Kumar Singh, Member

Date of Order: 11th May, 2022

In the matter of

Petition for approval of tariff of Doyang Hydroelectric Project (75 MW) of NEEPCO Ltd for the period from 1.4.2019 to 31.3.2024

And

In the matter of

North Eastern Electric Power Corporation Limited,
Corporate Office: Brookland Compound, Lower New Colony,
Shillong-793003 .... **Petitioner**

Vs

1. Assam Power Distribution Company Limited,
"Bijulee Bhawan" Paltanbazar,
Guwahati-781001, Assam

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

3. Tripura State Electricity Corporation Limited,
Bidyut Bhavan, North Banamalipur,
Agartala-799001, Tripura

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, Manipur

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

7. Department of Power,
Government of Nagaland ,
Electricity House, AG 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**

Parties Present:
Shri Devapriya Choudhury, NEEPCO
Shri Prabal Mukhopadhaya, NEEPCO
Ms. Elizabeth Pyrbot, NEEPCO

ORDER

This petition has been filed by the Petitioner, NEEPCO, for approval of tariff of Doyang Hydroelectric Project (3 x 25 MW) (hereinafter referred to as "the generating station") for the period for the 2019-24 tariff period in accordance with the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as 'the 2019 Tariff Regulations').

Background

2. The project comprises of three units of 25 MW capacity each and is a run of the river scheme with pondage having a Head Race Tunnel and a surface Powerhouse with a corresponding reservoir. The date of commercial operation of the units/station is as under:

Units	Actual COD
I	29.6.2000
II	5.7.2000
III / Generating Station	8.7.2000

3. Petition No. 43/GT/2015 was filed by the Petitioner for approval of tariff of the generating station for the 2014-19 tariff period and the Commission vide its order

dated 13.1.2016 approved the annual fixed charges of the generating station. Subsequently, by corrigendum order dated 7.3.2016 in the said Petition No. 43/GT/2015, the annual fixed charges approved vide order dated 13.1.2016 were revised, after applying the effective tax rate applicable for the year 2014-15 for all the years for the 2014-19 tariff period. Thereafter, in Petition No.293/GT/2019 filed by the Petitioner for truing-up of tariff of the generating station for the 2014-19 tariff period, the Commission vide its order dated 31.3.2022 approved the annual fixed charges and the capital cost of the generating station, as under:

Annual Fixed Charges allowed

(Rs.in lakh)

	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	1127.43	1157.62	1180.24	1184.82	1182.64
Interest on Loan	0.00	0.00	0.00	0.00	0.00
Return on Equity	4114.65	4445.28	5054.73	4550.57	4199.17
O&M Expenses	3900.10	4159.22	4435.56	4730.26	5044.54
Interest on Working Capital	336.11	358.73	388.55	393.33	402.55
Total	**9478.29**	**10120.85**	**11059.07**	**10858.97**	**10828.90**

Capital Cost allowed

(Rs.in lakh)

	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Capital Cost	63806.14	63985.70	64848.77	64894.14	64897.29
Additional Capitalization allowed	179.56	863.07	45.37	3.15	(-) 128.94
Closing Capital Cost	63985.70	64848.77	64894.14	64897.29	64768.35
Average Capital Cost	63895.92	64417.24	64871.46	64895.71	64832.82

Present Petition

4. The Petitioner has filed the present petition for approval of tariff of the generating station for the 2019-24 tariff period in terms of the provisions of the 2019 Tariff Regulations. Accordingly, the capital cost and the annual fixed charges claimed by the Petitioner are as under:

Capital Cost claimed

(Rs.in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	65302.87	66127.87	67159.21	68024.29	68184.29
Add: Addition during the year/period	825.00	1075.00	900.00	160.00	50.00
Less: De-capitalization during the year/ period	0.00	43.66	34.93	0.00	0.00
Less: Reversal during the year/ period	0.00	0.00	0.00	0.00	0.00
Add: Discharges during the year/ period	0.00	0.00	0.00	0.00	0.00
Closing Capital Cost	66127.87	67159.21	68024.29	68184.29	68234.29
Average Capital Cost	65715.37	66643.54	67591.75	68104.29	68209.29

Annual Fixed Charges claimed

(Rs.in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	1226.53	956.36	997.41	1051.50	1100.27
Interest on Loan	0.00	0.00	0.00	0.00	0.00
Return on Equity	4043.53	4077.27	4111.74	4130.37	4134.19
Interest on Working Capital	363.14	348.04	338.09	352.94	368.19
O&M Expenses	5654.57	5924.10	6206.47	6502.31	6812.24
Total	**11287.77**	**11305.77**	**11653.71**	**12037.12**	**12414.89**

5. The Respondent No. 1, APDCL has filed its reply vide affidavit dated 29.6.2021 and the Petitioner vide affidavit dated 19.7.2021 has filed its rejoinder to the said reply. Thereafter, this Petition was heard on 27.7.2021 through virtual conferencing and the Commission, after hearing the parties, reserved its order in the matter. Taking into consideration the submissions of the parties and the documents available on record, we proceed to determine the tariff of the generating station for the 2019-24 tariff period, on prudence check, as stated in the subsequent paragraphs.

Capital Cost

6. Regulation 19(3) of the 2019 Tariff Regulations provides as under:

"(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."*

7. The Petitioner in its original petition has claimed the opening capital cost of Rs.74586.70 lakh as on 1.4.2019. This was revised by the Petitioner to Rs.65302.87 lakh vide affidavit dated 19.7.2021. However, the Commission vide its order dated 31.3.2022 in Petition No. 293/GT/2019 had approved the closing capital cost of Rs.64768.35 lakh, on cash basis, as on 31.3.2019. Accordingly, in terms of Regulation 19(3) of the 2019 Tariff Regulations, the closing capital cost of Rs.64768.35 lakh, on cash basis, has been considered as the opening capital cost as on 1.4.2019.

Additional Capital Expenditure

8. Clauses (1) and (2) of Regulation 25 and clause (1) of Regulation 26 of the 2019 Tariff Regulations, provides as under:

"25. Additional Capitalisation within the original scope and after the cut-off date:
(1) The additional capital expenditure incurred or projected to be incurred in respect of an existing project or a new project on the following counts within the original scope of work and after the cut-off date may be admitted by the Commission, subject to prudence check:

(a) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority, or order or decree of any court of law;

(b) Change in law or compliance of any existing law.

(c) Deferred works relating to ash pond or ash handling system in the original scope of work;

(d) Liability for works executed prior to the cut-off date;

(e) Force Majeure events;

(f) Liability for works admitted by the Commission after the cut-off date to the extent of discharge of such liabilities by actual payments; and

(g) Raising of ash dyke as a part of ash disposal system.

(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

26. Additional Capitalisation beyond the original scope

(1) The capital expenditure, in respect of existing generating station or the transmission system including communication system, incurred or projected to be incurred on the following counts beyond the original scope, may be admitted by the Commission, subject to prudence check:

(a) Liabilities to meet award of arbitration or for compliance of order or directions of any statutory authority, or order or decree of any court of law;

(b) Change in law or compliance of any existing law;

(c) Force Majeure events.

(d) Need for higher security and safety of the plant as advised or directed by appropriate Indian Government Instrumentality or statutory authorities responsible for national or internal security.

(e) Deferred works relating to ash pond or ash handling system in additional to the original scope of work, on case-to-case basis:

Provided also that if any expenditure has been claimed under Renovation and Modernisation (R&M) or repairs and maintenance under O&M expenses, the same shall not be claimed under this Regulation.

(f) Usage of water from sewage treatment plant in thermal generating station. xxxx"

9. The year-wise break-up of the projected additional capital expenditure (including discharges of liabilities) claimed by the Petitioner for the 2019-24 tariff period is as under:

(Rs.in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Additions during the year/period	825.00	1075.00	900.00	160.00	50.00
Less: De-capitalization during the year/ period	0.00	43.66	34.93	0.00	0.00
Less: Reversal during the year/ period	0.00	0.00	0.00	0.00	0.00
Add: Discharges during the year/ period	0.00~ 78	~0.00	0.00	0.00	0.00

Net additional capital expenditure claimed (on projected basis)	**825.00**	**1031.34**	**865.07**	**160.00**	**50.00**

10. The projected additional capitalisation claimed by the Petitioner can be categorised as (i) Additional capital expenditure in respect of works already approved by Commission but which are continued/ spilled over from the 2014-19 tariff period; and (ii) additional capital expenditure for new items. We now proceed to deal with the additional capital expenditure claimed in the following paragraphs.

(A) Spill Over Works-Admitted works

11. The Petitioner has claimed projected additional capital expenditure on account of assets/works which have been spilled over as follows:

(Rs.in lakh)

Sl. No.	Works/ Items	Amount Claimed	Regulation	Justification submitted by the Petitioner
			2019-20	
1.	Plant & Machinery in Generation Station: Up-gradation of Electromechanical relays to numerical relays & EM energy meters to ABT Compliant digital meters	250.00	26(1)(d)	Provision for retrofitting of numerical relay, and ABT based Energy meter was already approved for additional capitalization during the 2014-19 tariff period for Rs. 250.00 lakh. The work has been carried over to the 2019-24 period and will be completed by 2019-20. Drawings have been finalized and detailed order for supply, installation, retrofitting, testing and commissioning has been issued. The delivery of materials at site is expected by first week of September 2019. The commencement of work, retrofitting, installation and commissioning of numerical relay is likely to start by the last week of September, 2019.
2.	Fire-Fighting Equipment: Replacement of CO2 Fire fighting system of 3 Numbers Generator	50.00	25(1)(d)	Provision for replacement of CO_2 firefighting system for three generators were approved as additional capital expenditure for the 2014-19 tariff period for Rs.50.00 lakh. The work has been carried over to the 2019-24 tariff period and shall be taken up in 2019-20. Initially the OEM M/s Technico, Kolkata was approached for replacement of CO_2 Fire Fighting system for 3 (three) nos. Generators.

Sl. No.	Works/ Items	Amount Claimed	Regulation	Justification submitted by the Petitioner
				Although they had deputed their representative to Plant site, later on M/s Technico did not respond and as such the tender process is being initiated.
3.	Fire Fighting Equipment: Procurement of Fire Tender 4500 litres.	40.00	26(1)(d)	Provision for procurement of fire tender of 4500 litres. The additional capital expenditure was approved for this item during the 2014-19 tariff period for Rs.40.00 lakh and the work has been carried over to the 2019-24 tariff period. Tender was floated from HQ for procurement of Fire Tender for the generating station along with Fire Tenders for Kameng HEP and Pare HEP. The replacement of this asset was allowed under Regulation 14(3)(viii) of the 2014 tariff regulations on the ground that the asset will facilitate successful and efficient operation of plant.
			2020-21	
4.	Water supply; sewerage & drain: Installation of Permanent water source for the use of the colonies and installation of Water purification scheme	400.00	26(1)(d)	Since the commissioning of the plant, there is no proper/permanent water supply scheme for providing potable water to the employees of the generating station. Presently, the water supply is tapped from a reservoir from un-acquired land. Besides there is no filtration scheme for purification of the raw water thereby the quality of the water tends to fall during heavy rains due to high turbidity and silt content. The proposed Installation of permanent water source and installation of water purification scheme was approved by the Commission under additional capital expenditure during the 2014-19 tariff period. However due to land dispute during site selection for the source, the design and drawing could not be finalized. Upon finalization of design, the estimate has been framed. The proposal is in tendering stage at HQ C&P cell Shillong, and is proposed to be executed.

12. It is evident from the above that the assets/ works in Sl. No. 1 to Sl. No. 4 above, were allowed by the Commission vide order dated 13.1.2016 in Petition No.43/GT/2015 under Regulation 14(3)(viii) of 2014 Tariff Regulations. The

Petitioner has pointed out that these items could not be completed within the 2014-19 tariff period for reasons as mentioned therein. It has, however, submitted that purchase orders for all these assets/works have been placed and the same will be completed during the 2019-24 tariff period. It is noticed from records that that the Commission vide its order dated 13.1.2016 in Petition No. 43/GT/2015 had allowed these assets/works under Regulation 14(3)(viii) of the 2014 Tariff Regulations, on the ground that these assets/works were required for efficient operation of the plant. In view of this, and since these assets/works are spill over works which are in progress and expected to be completed during the 2019-24 tariff period, we allow additional capitalisation of the same, in exercise of the power to relax, under Regulation 76 of the 2019 Tariff Regulations. Accordingly, the projected additional capital expenditure Rs.740 lakh claimed by the Petitioner is allowed.

(B) New Claims

2019-20

13. The admissibility of the projected additional capital expenditure claimed by the Petitioner and allowed in 2019-20, based on the prudence check of the justification furnished by the Petitioner are as under:

(Rs.in lakh)

Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
Transformer having rating 100 KVA & above: Procurement of 1(one) number new 28.5 MVA, 11/132 kV Generator Transformer	350.00	26(1)(d)	In order to avoid prolonged forced outages of Units and subsequent loss of generation and financial loss due to failure of Generator Transformers (GT), a new spare Generator Transformer is very much essential. Doyang GT of Unit-II has been repaired four times, as such next failure also cannot be ruled out. The	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is towards procurement of the Spare generator transformer. Since the projected additional capital expenditure claimed is in the nature of capital spares and since capital spares	0.00

Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
			OEM of the GTs in DHEP i.e. M/S Bharat Bijlee Limited has recommended for procurement of a new GT instead of repeated repairing of GT of Unit II. In order to replace the repaired GT of Unit II, procurement of a new GT of the same capacity has already been initiated through open tender process.	after the cut-off date, are not allowed, the claim of the Petitioner is **not allowed**	
Plant & Machinery in Generation Station: De-watering and Drainage pump sets including control panels with automatic level controller	60.00	26(1)(d)	Ageing and prolonged use of the existing drainage and dewatering pump motor sets has led to their wear and tear and of late these pump motor sets are giving frequent problems necessitating repeated repairs. As such the dewatering and drainage pump motor sets need to be replaced at the earliest in order to avoid flooding of Powerhouse and loss of generation in the event of failure of the existing Dewatering and Drainage motor pump sets. It is proposed to procure new pumps sets of same type and capacity at the earliest.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of replacement of existing drainage pump sets, to avoid the flooding of the powerhouse. It is observed from the Petitioner's submission that the expenditure claimed for assets under this head, are on replacement basis. In view of this, the additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	60.00
Switchyard including cable connection: Procurement of Current Transformers (CTs) with CTR 600/1 to replace the existing CTs of CTR 300/1 in the outgoing	75.00	26(1)(d)	As discussed in the OCC meeting and agreed by all constituents, and an important requirement for grid stability, upgradation of CTs is required to be done in order to increase power flow and to maintain grid stability. The existing CTs of CTR 300/1 of outgoing feeders and Bus coupler are to be replaced with CTs of CTR 600/1.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of upgradation of existing Current Transformers to increase the power flow and grid stability. It is observed from the Petitioner's submission that the expenditure claimed for assets	75.00

Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
feeders, bus coupler in the 132kV Switchyard, DHEP. Total CTs required to be procured with CTR 600/1 including 3 nos. spare CTs will be 18 (eighteen) numbers only.				under this head, are on replacement basis. In view of this, the additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	
Total amount claimed	**825.00**				
Total amount allowed					**135.00**

2020-21

14. The admissibility of the projected additional capital expenditure claimed by the Petitioner and allowed in 2020-21, on prudence check of the justification furnished by the Petitioner, are as under:

(Rs.in lakh)

Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
Plant & Machinery in Generation Station: Cooling water pipe line replacement with SS pipes	100.00	26(1)(d)	The condition of the existing MS pipes in the Powerhouse is in a deplorable condition and need to be replaced as the MS pipes have outlived their life. It may be noted that the state of Nagaland has coal deposits in the upstream side of the dam and due to sulphation, the cooling water is likely to be affected leading to corrosion of MS pipes in the Powerhouse and outage of machines. In	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of replacement of the existing MS pipes with new ones. . In view of this, the additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	100.00

Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
			order to prevent outage due to cooling water pipeline failure, the MS pipe lines in the Power House are proposed to be replaced with SS pipe lines as adopted at Kopili and Khandong Power House.		
Plant & Machinery in Generation Station: Pre-loaded spring mattress for thrust bearings to be replaced for all 3(three) units.	150.00	26(1)(d)	It has been observed that the rotor dynamic level has been affected due to losing spring tension of spring mattresses thereby affecting the properties of pre-loaded spring mattress for thrust bearing. Rotor dynamic levelling going out of prescribed value will affect the performance of Guide bearing, balancing of machine etc. In order to safe guard the machines from any mechanical abnormality, and to increase the efficiency of the machines, it is required to replace the complete set of thrust bearing pre-loaded spring mattress in all three units.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of replacement of thrust bearings to safeguard the machine from any mechanical abnormality. It is observed from the Petitioner's submission that the expenditure claimed for assets under this head, are on replacement basis. In view of this, the additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	150.00
T&P(special): Procurement of new turbine oil filtration unit	15.00	26(1)(d)	The existing turbine oil filtration machine is more than 20(twenty) years old and it frequently breaks down hampering the functioning of machines due to guide bearing problem. In order to avoid down time and prevent forced outage of the machine, procurement of a new turbine oil filter machine for replacing the old one is necessary.	The Petitioner has submitted that the projected additional capital expenditure under this head is on account of replacement of oil filtration unit to avoid down time and prevent forced outage. In view of this, the additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019	15.00

Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
				Tariff Regulations.	
Plant & Machinery in Generation Station: Disaster Management pumping system in case of flooding of Powerhouse.	50.00	26(1)(d)	2 (two) nos. of 30 HP pumps of 4000 lpm discharge each are to be installed in the runner gallery to enable pumping out of water in the event of flooding of Powerhouse.	The Petitioner has submitted that the projected additional capital expenditure under this head is towards procurement of the pumps to protect the plant from flooding. However, the Petitioner has not submitted any documentary evidence indicating that the claim for this asset is based on advice from Government of India instrumentality or statutory agencies responsible. In view of this, the projected additional capital expenditure claimed under this head is **not allowed**. The Petitioner, may, at the time of truing up of tariff claim the expenditure with proper documentary evidence and in terms of the relevant provisions of the 2019 Tariff Regulations	00.00
Plant & Machinery in Generation Station: Requirement of new 220V DC battery bank-II	80.00	26(1)(d)	For 100% redundancy and as recommended by protection team and as per the CEA guide lines, an alternative DC source i.e. DC source II is a must. In the event of failure of DC control circuit, the whole DC control system will fail and will lead to catastrophic shutdown of the machines. As such requirement of 220 V DC Bank II is required.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of replacement existing battery bank to achieve 100% redundancy as per CEA guidelines. It is observed from the Petitioner's submission that the expenditure claimed for assets under this head, are on replacement basis. In view of this, the additional capital	80.00

Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
				expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	
Dam/Reservoir/Spillway: Study of siltation of Doyang Reservoir	30.00	26(1)(d)	It is observed that huge quantity of silt deposits is being accumulated in the Doyang reservoir, due to which the storage capacity of the reservoir is decreasing day by day which will affect the generation output of the plant. Project Authority hereby proposes for siltation study of the reservoir.	It is observed that the study of siltation of Doyang Reservoir do not relate to the higher safety & security of the plant. Accordingly, the additional capital expenditure claimed for this asset/work is **not allowed**.	0.00
Dam/Reservoir/Spillway: Protective measures to reduce Siltation	50.00	26(1)(d)	After completion of the study of Reservoir siltation, Protective measures like construction of Check dams, Gully plugging etc. shall be taken up in the tributaries of Doyang river, Prone landslide zones of the Catchment area to avoid further siltation in the reservoir.	It is observed that the projected additional capital expenditure claimed in respect of the said asset/work, is recurring in nature and hence, the Petitioner may I bear the same from the normative O&M expenses allowed to the generating station. Accordingly, the projected additional capital expenditure claimed under this head is not **allowed**.	0.00
Pmt. Roads: Improvement of colony road: Phase I	200.00	26(1)(d)	Since commissioning of the plant, no major upgradation/ maintenance works of Roads were taken up. The project is linked by 12.41 km of internal roads which are in deplorable condition. Since the generating station is located in the remotest hilly terrain and due to its abnormal monsoon conditions, major portion of the road & drains have been	It is observed from the submissions of the Petitioner that that the additional capital expenditure claimed for the said asset do not relate directly to the higher safety & security of the plant. Accordingly, the expenditure claimed is **not allowed**.	0.00

Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
			badly damaged leading to undue hardship of the plant Engineers and workers. Moreover, in some portion existing culverts are damaged and in deplorable state. Due to the dilapidated condition of the road with presence of numerous potholes all along the stretch which poses threat to life of the commuters (employees)		
Total amount claimed	**1075.00**				
Total amount allowed					**345.00**

2021-22

15. The admissibility of the projected additional capital expenditure claimed by the Petitioner and allowed in 2021-22, on prudence check of the justification furnished by the Petitioner, are as under:

(Rs.in lakh)

Works/ Items	Amount claimed	Regulation under which claimed	Justification by the Petitioner	Admissibility	Amount allowed
T&P(special): Online oil filter machine for bearing housing	70.00	26(1)(d)	The Online oil filtration system is required for bearing housing, where continuous oil filtration will be there, even during machine under standstill condition. This process will ensure the quality of oil and remove any micro particles from the oil, and through this system the machine performance, guide bearing performance, the quality of oil and its cooling effectiveness will be ensured.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is to ensure the quality of oil to enhance the performance of the machine. However, the Petitioner has not submitted any documentary evidence indicating that the claim for this asset is based on advice from any Technical committee/Government of India instrumentality.	00.00

Works/ Items	Amount claimed	Regulation under which claimed	Justification by the Petitioner	Admissibility	Amount allowed
				In view of this, the projected additional capital expenditure claimed under this head is not **allowed.** The Petitioner, may, at the time of truing up of tariff claim the expenditure with proper documentary evidence and in terms of the relevant provisions of the 2019 Tariff Regulations	
Transformer having rating 100 KVA & above: DGA instruments to be incorporated online in all the 3(three) Generator Transformers	80.00	26(1)(d)	Failure of Generator Transformers is one of the severest failures in a Power Plant and has to be avoided at all costs. The incorporation of DGA (Dissolved Gas Analysis) will help in condition monitoring of GT round the clock. Basing on the data, the healthiness of Generator Transformers can be ascertained and forced outages reduced and reduced expenses in repairing of GT.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is for incorporation of dissolved gas analysis in GT. It is observed from the Petitioner's submission that the expenditure claimed for assets under this head, are on replacement basis. In view of this, the additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	80.00
Plant & Machinery in Generation Station: Automation of machine complete implementation of SCADA	150.00	26(1)(d)	SCADA (Supervisory Control and Data Acquisition) system, machine automation and real time data to monitor the performance and stability of the system has become necessary and mandatory as per the regulation. In order to implement SCADA in totality, data from the field are to be acquired and processed accordingly.	The Petitioner has submitted that the projected additional capital expenditure under this head is on account of implementation of SCADA, and machine automation. It is observed from the Petitioner's submission that the expenditure claimed for assets under this head, are on replacement basis. In view of this, the	150.00

Works/ Items	Amount claimed	Regulation under which claimed	Justification by the Petitioner	Admissibility	Amount allowed
				additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations	
Plant & Machinery in Generation Station: Replacement of Unit control panel, temperature panel, recorder display of parameters	200.00	26(1)(d)	The existing unit control panel, temperature gauge panel is old and outdated. In order to meet the requirement of machine automation and SCADA system, the present panel needs to be replaced with the better and latest version of unit control panel and temperature gauge panel. From this control panel one should be able to initiate command for stopping and starting of machines.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of replacement of unit control panel for SCADA. In view of this, the additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	200.00
Powerhouse & Penstock: Replacement of Trash rack of Intake of the generating station.	200.00	26(1)(d)	Upon inspection of the trash rack of intake penstock, it has been observed that huge corrosion and rusting has occurred requiring immediate replacement. Due to exposure of the trash rack to air as well as silt/slush content in the Doyang river, there is fast corrosion and eroding of the metal parts. The Project was commissioned in 2000. However, the trash rack has not been replaced till date. It is necessary to keep the trash rack in good condition in order to avoid entry of debris into the penstock which leads to the turbine of the Powerhouse. As entry of unwanted debris may damage the underwater parts like	The Petitioner has submitted that the projected additional capital expenditure under this head is on account of replacement of trash rack of the generating station. In view of this, the additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	200.00

Works/ Items	Amount claimed	Regulation under which claimed	Justification by the Petitioner	Admissibility	Amount allowed
			runner, the replacement of trash rack is proposed from Project Authority.		
Pmt. Roads: Improvement of colony road: Phase II	200.00	26(1)(d)	Since the commissioning of the plant, no major upgradation/ maintenance of roads were taken up. The project is linked by 12.41 km of internal roads which are in deplorable condition. Since the generating station is located in the remotest hilly terrain and due to its abnormal monsoon conditions, major portion of the road & drains have been badly damaged leading to undue hardship of the plant engineers and workers. Moreover, in some portion, the existing culverts are damaged and in deplorable state. Due to the dilapidated condition of the road with presence of numerous potholes, all along the stretch, poses threat to life of the commuters. For uninterrupted movement and to enhance productivity of the plant, timely movement of O&M engineers, workers, supply of spares etc., upgradation & strengthening of the road condition of the generating station is required.	It is observed that the said asset does not relate directly to the higher safety & security of the plant. Accordingly, the expenditure claimed is **not allowed**.	0.00
Total amount claimed	**900.00**				
Total amount allowed					**630.00**

2022-23

16. The admissibility of the projected additional capital expenditure claimed by the Petitioner and allowed in 2022-23, on prudence check of the justification furnished by the Petitioner are as under:

(Rs.in lakh)

Works/ Items	Amount claimed	Regulation under which claimed	Justification by the Petitioner	Admissibility	Amount allowed
Fire Fighting Equipment: Upgradation of firefighting system, hydrant system, deluge valves, solenoids, pipelines, motor panels.	60.00	26(1)(d)	The upgradation of firefighting system, the components like fire hydrants, deluge valves, solenoids, hydrant pipelines, motor control panels are to be up-graded to the latest system. The present existing system is more than 20 (twenty) years old, and many components of the system have started malfunctioning which may lead to major damage due to fire.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of upgradation of firefighting system.. In view of this, the additional capital expenditure claimed is **allowed** on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	60.00
Pmt. Roads: Improvement of colony road: Phase III	100.00	26(1)(d)	Since the commissioning of the plant, no major upgradation/ maintenance of roads were taken up. The project is linked by 12.41 km of internal roads which are in deplorable condition. Since the generating station is located in the remotest hilly terrain and due to its abnormal monsoon conditions, major portion of the road & drains have been badly damaged leading to undue hardship of the plant engineers and workers. Moreover, in some portion, the existing culverts are damaged and in deplorable state. Due to the dilapidated	It is observed that the said asset does not relate directly to the higher safety & security of the plant. Accordingly, expenditure on account of the said asset is **not allowed**.	0.00

			condition of the road with presence of numerous potholes, all along the stretch, poses threat to life of the commuters. For uninterrupted movement and to enhance productivity of the plant, timely movement of O&M engineers, workers, supply of spares etc., upgradation & strengthening of the road condition of the generating station is required.		
Total amount claimed	**160.00**				
Total amount allowed					**60.00**

2023-24

17. The admissibility of the projected additional capital expenditure claimed by the Petitioner and allowed in 2023-24, on prudence check of the justification furnished by the Petitioner are as under:

(Rs.in lakh)

Works/ Items	Amount claimed	Regulation under which claimed	Justification by the Petitioner	Admissibility	Amount allowed
Switchyard including cable connection: Sub-automation of Switchyard	50.00	26(1)(d)	In line with the SCADA system, sub automation of switchyard is required, whereby command from control room and remote should be able to operate Circuit Breaker, isolator, earth switch etc.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is required for implementation of SCADA. However, the Petitioner has not submitted any documentary evidence indicating that the claim for this asset is based on advice from Government of India instrumentality or statutory agencies responsible for national security. In view of this, the projected additional capital expenditure claimed under this head is	00.00

				not allowed. The Petitioner may, at the time of truing up of tariff claim the expenditure with proper documentary evidence and in terms of the relevant provisions of the 2019 Tariff Regulations.	
Total amount claimed	**50.00**				
Total amount allowed					**00.00**

18. Accordingly, the total additional capital expenditure of Rs.1170.00 lakh is allowed as above in respect of new assets/ works within the original scope of work of the project.

19. Based on the above, the total additional capital expenditure allowed is as under:

(Rs.in lakh)

	2019-20	**2020-21**	**2021-22**	**2022-23**	**2023-24**
Total Additional Capital Expenditure allowed for Spill Over assets	340.00	400.00	0.00	0.00	0.00
Total Additional Capital Expenditure allowed for new items	135.00	345.00	630.00	60.00	0.00
Total	**475.00**	**745.00**	**630.00**	**60.00**	**0.00**

Decapitalization

20. The Petitioner has claimed de-capitalization as under:

(Rs.in lakh)

De-capitalization claimed	**2020-21**	**2021-22**
Cooling Water pipeline replacement with SS pipes	17.46	-
Pre-Loaded Spring mattress for Thrust bearing	26.19	-
Replacement of unit control panel, temperature panel and recorder display of parameters	-	34.93

21. It is noticed that the decapitalization amount of old assets considered by the Petitioner appears to be on lower side and hence, we are not inclined to consider the amount claimed as above. However, we have worked out the corresponding de-

capitalization under 'Assumed Deletions' for the aforesaid assets, as discussed below:

Assumed Deletions

22. As per consistent methodology adopted by the Commission, the expenditure on replacement of assets, if found justified, is allowed for the purpose of tariff, provided that the capitalization of the said asset is followed by de-capitalization of the original value of the old asset. However, in certain cases where de-capitalization is affected in books during the following years, to the year of capitalization of new asset, the de-capitalization of the old asset for the purpose of tariff is shifted to the very same year in which the capitalization of the new asset is allowed. Such decapitalization which is not a book entry in the year of capitalization is termed as "Assumed deletion". Further, in the absence of the gross value of the asset being de-capitalized, the same is calculated by de-escalating the gross value of new asset @ 5% per annum till the year of capitalization of the old asset.

23. It is observed that the Petitioner has claimed the asset/work such as firefighting equipment, turbine oil filtration unit, control panel, trash rack, etc., on replacement basis. However, the Petitioner has not furnished the de-capitalization value of the old asset/works, which have been replaced. Accordingly, based on above methodology, the assumed deletion considered for these assets/works also, is as under:

(Rs.in lakh)

	Assets/Works	Additions claimed for new assets/works	Assumed Deletions for old assets/works	
			Claimed	Allowed
2019-20				
	Fire Fighting Equipment: Procurement of Fire Tender 4500 Litre.	40.00	0.00	15.83
	Dewatering and Drainage pump	60.00	0.00	23.74

	sets including control panels with automatic level controller			
	Switchyard including cable connection: Procurement of Current Transformers (CTs) with CTR 600/1 to replace the existing CTs of CTR 300/1 in the outgoing feeders, bus coupler in the 132kV Switchyard, DHEP. Total CTs required to be procured with CTR 600/1 including 3 nos. spare CTs will be 18 (eighteen) numbers only.	75.00	0.00	29.68
2020-21				
	T&P(special): Procurement of new turbine oil filtration unit	15.00	0.00	5.65
	Plant &Machinery in Generation Station: Pre-loaded spring mattress for thrust bearings to be replaced for all 3(three) units.	150.00	26.19	56.53
	Plant & Machinery in Generation Station: Cooling water pipe line replacement with SS pipes	100.00	17.46	37.69
	Plant & Machinery in Generation Station: Requirement of new 220V DC battery bank-II	80.00	0.00	30.15
2021-22				
	Transformer having rating 100 KVA & above: DGA instruments to be incorporated online in all the 3 (three) Generator Transformers	80.00	0.00	28.72
	Plant &Machinery in Generation Station: Replacement of Unit control panel, temperature panel, recorder display of parameters	200.00	34.93	71.79
	Powerhouse & Penstock: Replacement of Trash rack of Intake of Doyang HE Plant	200.00	0.00	71.79
2022-23				
	Upgradation of firefighting system, hydrant system, deluge valves, solenoids, pipelines, motor panels	60.00	0.00	20.51

Capital Cost allowed

24. Based on the above, the capital cost allowed for the purpose of tariff for the 2019-24 period is as under:

(Rs.in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	64768.35	65174.09	65789.07	66246.77	66286.26
Add: Projected additional capital expenditure allowed	475.00	745.00	630.00	60.00	00.00
Less: Assumed Deletions	69.25	130.03	172.29	20.51	0.00
Net additional capital expenditure	405.75	614.97	457.71	39.49	0.00
Closing Capital Cost	**65174.09**	**65789.07**	**66246.77**	**66286.26**	**66286.26**
Average Capital Cost	64971.22	65481.58	66017.92	66266.52	66286.26

Debt Equity Ratio

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

"(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 (ii) 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."

26. The gross loan and equity amounting to Rs.31927.51 lakh and Rs.32840.84 lakh, respectively as on 31.3.2019, was considered in order dated 31.3.2022 in Petition No. 293/GT/2019. The proportionate equity as a percentage of admitted capital cost as on 31.3.2019 is 50.71%. Accordingly, the gross loan and equity amounting to Rs.31927.51 lakh and Rs.32840.84 lakh has been considered as opening gross loan and equity as on 1.4.2019. Further, the projected additional capital expenditure approved as above, has been claimed to be funded in the debt-equity ratio of 70:30. Since de-capitalization of assets has been considered on assumed deletion basis, considering the put to use year as CoD, the debt-equity ratio for de-capitalization has been considered as 48.78:51.22 as on CoD. The details of debt-equity ratio considered is shown as under:

(Rs. in lakh)

Asset	As on 1.4.2019		Additional Capital Expenditure during 2019-24		De-capitalization during 2019-24		As on 31.3.2024	
	Amount	%	Amount	%	Amount	%	Amount	%
Debt	31927.51	49.29	1337.00	70.00	191.26	48.78	33073.25	49.89%
Equity	32840.84	50.71	573.00	30.00	200.82	51.22	33213.02	50.11%
Total	**64768.35**	**100.00**	1910.00	**100.00**	**392.08**	**100.00**	66286.26	**100.00**

Return on Equity

27. Regulation 30 of the 2019 Tariff Regulations provides as under:

"(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 stations, 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 excluding additional capitalization due to Change in Law, 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"

28. Regulation 31 of the 2019 Tariff Regulations provides as under:

"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 the generating company or the 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 the 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 transmission customers, as the case may be, on year to year basis."

29. The Commission, vide its order dated 31.3.2022 in Petition No. 293/GT/2019, pertaining to truing-up of tariff of this generating station for the 2014-19 tariff period, had observed as under:

39. Ministry of Power, GOI vide letter dated 13.3.2009 had approved the financial package of this project and according to this, "the tariff will be enhanced at the rate of 5 per cent during the tariff period five years beginning form 2009-2010. Thereafter, the tariff will so increase in the very first year of tariff period beginning from 2014-2015 to give return of 10 per cent on equity." This was recognised by the Commission in order dated 24.12.2012 in Petition No. 63/2010 for approval of tariff of the generating station for 2009-14 period.

30. 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 is 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:

(Rs.in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Normative Equity - Opening (a)	32840.84	32947.87	33104.77	33205.52	33213.02
Addition of Equity due to additional capital expenditure (b)	142.50	223.50	189.00	18.00	0.00
Deletion of Equity due to de-capitalization (c)	35.47	66.60	88.25	10.51	0.00
Normative Equity- Closing (d)=[(a)+(b)-(c)]	32947.87	33104.77	33205.52	33213.02	33213.02
Average Normative Equity (e)=[(a+d)/2]	32894.35	33026.32	33155.15	33209.27	33213.02
Return on Equity (Base Rate) (f)	10.00%	10.00%	10.00%	10.00%	10.00%
Effective Tax Rate (g)	17.472%	17.472%	17.472%	17.472%	17.472%
Rate of Return on Equity (Pre-tax) (h)=[(f)/(1-(g)]	12.117%	12.117%	12.117%	12.117%	12.117%
Return on Equity (Pre-tax) – (annualized) (i)=[(e)*(h)]	3985.81	4001.80	4017.41	4023.97	4024.42

Interest on loan

31. 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."

32. 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

33. 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 upto 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.

34. Depreciation has been worked out considering the admitted capital expenditure as on 31.3.2019 and accumulated depreciation of Rs. 38712.09 lakh up to 31.3.2019. Since the generating station has completed 12 years of operation in the year 2012-13, 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 (a)	64768.35	65174.09	65789.07	66246.77	66286.26
Closing Capital Cost (b)	65174.09	65789.07	66246.77	66286.26	66286.26
Average Capital Cost (c)=[(a)+(b)/2]	64971.22	65481.58	66017.92	66266.52	66286.26
Rate of Depreciation (%) (d)=[(i)/(c)]	1.43%	1.45%	1.48%	1.49%	1.49%
Depreciable Value (e)=[90%*(c)]	58474.10	58933.42	59416.13	59639.87	59657.64
Balance life (f) **	21.27	20.27	19.27	18.27	17.27
Cumulative depreciation beginning (g)	38712.09	39641.22	40593.00	41569.84	42558.93
Remaining Depreciable Value (h) = [(e)-(g)]	19762.01	19292.21	18823.12	18070.02	17098.71
Depreciation during the period (i)=[(h)/(f)]	**929.13**	**951.79**	**976.84**	**989.08**	**990.11**
Cumulative depreciation (j)=[(g)+(i)]	39641.22	40593.00	41569.84	42558.93	43549.04
Less: Adjustment on account of de-capitalisation (k)*	0.00	0.00	0.00	0.00	0.00
Net Cumulative Depreciation (l)	**39641.22**	**40593.00**	**41569.84**	**42558.93**	**43549.04**

**No adjustment in depreciation on account of decapitalization has been considered at this stage and the same shall be considered at the time of truing up.*

***As per regulation 3(73)(e) of 2019 Tariff Regulations, useful life is 40 years.*

Operation & Maintenance Expenses

35. Regulation 35(2)(a) of the 2019 Tariff Regulations provides the O&M expense norms for hydro generating stations which have been operational for three or more years as on 1.4.2019, as shown below :

(Rs.in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
5654.57	5924.10	6206.47	6502.31	6812.24

36. The normative O&M expenses as claimed by the Petitioner are in accordance with Regulation 35(2) of 2019 Tariff Regulations and is therefore allowed. The Petitioner has not claimed additional O&M expenses on account of the impact of revision of minimum wages, pay revision and GST.

37. Regulation 35(2)(d) of the 2019 Tariff Regulations provides as under:

> *"The Security Expenses and Capital Spares for hydro generating stations shall be allowed separately after prudence check:*
>
> *Provided further that the generating station shall submit the assessment of the security requirement and estimated expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification."*

Capital Spares

38. The Petitioner has submitted the details of Capital spares for the years 2019-20 and 2020-21. Since capital spares shall be allowed on actual consumption basis, the same shall be considered at the time of truing-up of tariff, based on the actual expenses incurred by the Petitioner and the submission of relevant details as per the said regulations.

Security Expenses

39. The Petitioner has also claimed Security expenses as part of O&M expenses in terms of Regulation 35(2)(d) of the 2019 Tariff Regulations. Further, the Petitioner has submitted that based on the actual security expenses incurred during 2018-19, the year-wise escalation rate of 4.77% has been considered to arrive at the security

expenses for the 2019-24 tariff period. Accordingly, the estimated security expenses claimed by the Petitioner are as under:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
1214.00	1278.00	1350.00	1455.00	1565.00

40. It is noticed that the actual security expenses incurred by the Petitioner for 2018-19 is Rs.1419.89 lakh (as submitted vide affidavit dated 7.9.2021 in Petition No 293/GT/2019) which is higher in comparison to the claim of the Petitioner in the present petition. Therefore, the claim of the Petitioner in this petition is considered and allowed, as tabulated below. This is however, subject to truing up, based on the actual expenses incurred:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
1214.00	1278.00	1350.00	1455.00	1565.00

Interest on Working Capital

41. Regulation 34(1)(c)of the 2019 Tariff Regulation provides as under:

"34. Interest on Working Capital:

(1) The working capital shall cover:

(c) For Hydro Generating Station (including Pumped Storage Hydro Generating Station) and Transmission System:

(i) Receivables equivalent to 45 days of annual fixed cost;

(ii) Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and

(iii) Operation and maintenance expenses, including security expenses for one month.

42. Regulation 34(3) and Regulation 34(4) of the 2019 Tariff Regulations provide as under:

(3) Rate of interest on working capital shall be on normative basis and shall be considered as 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 as 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."

Working Capital for Receivables

43. Receivables equivalent to 45 days of annual fixed cost are worked out and allowed as under:

(Rs.in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
1494.68	1543.36	1590.77	1644.41	1693.63

Working Capital for Maintenance Spares

44. Maintenance spares @ 15% of O&M expenses is worked out and allowed as under:

(Rs.in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
1030.29	1080.32	1133.47	1193.60	1256.59

Working Capital for O& M expenses

45. O&M expenses for one (1) month is allowed as under:

(Rs.in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
572.38	600.18	629.71	663.11	698.10

Rate of Interest on working capital

46. In terms of Regulation 34(3) of the 2019 Tariff Regulations, the rate of interest on working capital shall be considered as 12.05% (i.e.one-year SBI MCLR of 8.55% as on 1.4.2019 plus 350 bps) for the tariff period 2019-24. Further, the aforesaid rate of interest is subject to truing up based on one-year SBI MCLR as on 1st April of the respective years of 2019-24 tariff period. The tariff of the generating station is being determined in the year 2021-22 and one-year SBI MCLR as on 1.4.2020 (i.e. 7.75%) and 1.4.2021 (i.e. 7%) is available. Hence, in order to safeguard against additional interest burden due to excess/ under recovery of tariff, we deem it prudent to

consider the rate of interest on working capital for the year 2019-20 as 12.05%, for 2020-21 as 11.25% (i.e. One year SBI MCLR of 7.75% as on 1.4.2020 plus 350 bps) and for the period 2021-24 as 10.50% (i.e. One year SBI MCLR of 7% as on 1.4.2021 plus 350 bps), subject to truing up.

47. Accordingly, interest on working capital is computed as under:

(Rs.in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Working Capital for Maintenance spares (15% of O&M Expenses)	1030.29	1080.32	1133.47	1193.60	1256.59
Working Capital for O&M expenses (one month)	572.38	600.18	629.71	663.11	698.10
Working Capital for Receivables (45 days)	1494.68	1543.36	1590.77	1644.41	1693.63
Total Working Capital	**3097.35**	**3223.85**	**3353.94**	**3501.11**	**3648.32**
Rate of interest on working capital (%)	12.050	11.250	10.500	10.500	10.500
Interest on Working Capital	**373.23**	**362.68**	**352.16**	**367.62**	**383.07**

Annual Fixed Charges

48. Accordingly, the annual fixed charges approved for the generating station for the 2019-24 tariff period are summarized as under:

(Rs.in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	929.13	951.79	976.84	989.08	990.11
Interest on Loan	0.00	0.00	0.00	0.00	0.00
Return on Equity	3985.81	4001.80	4017.41	4023.97	4024.42
O&M Expenses	5654.57	5924.10	6206.47	6502.31	6812.24
Security Expenses	1214.00	1278.00	1350.00	1455.00	1565.00
Interest on Working Capital	373.23	362.68	352.16	367.62	383.07
Total	**12156.74**	**12518.37**	**12902.88**	**13337.98**	**13774.85**

Note: (1) All figures are on annualized basis. (2) All figures under each head have been rounded. The figure in total column in each year is also rounded. As such the sum of individual items may not be equal to the arithmetic total of the column.

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

Normative Annual Plant Availability Factor (NAPAF)

50. Regulation 50(A)(4) of the 2019 Tariff Regulations provides for the Normative Annual Plant Availability Factor (NAPAF) for hydro generating stations already in operation. Accordingly, in terms of the said regulation, NAPAF of 70% has been considered for this generating station.

Design Energy

51. The Commission in its order dated 13.1.2016 in Petition No. 43/GT/2015 had considered the annual Design Energy (DE) of 227.24 million units for this generating station. This DE has been considered for this generating station for the period 2014-19 as per month-wise details as under:

Months	Design Energy (MU)
April	11.52
May	12.79
June	22.90
July	14.29
August	55.80
September	31.96
October	20.01
November	11.52
December	11.90
January	11.90
February	10.75
March	11.90
Total	**227.24**

Application filing fee and publication expenses

52. The Petitioner has sought reimbursement of fees paid by it for filing the petition and for publication expenses and has submitted that the reimbursement of the same are in accordance in terms of the Regulation 70(1) of the 2019 Tariff Regulations. In view of the above, the Petitioner shall be entitled for reimbursement of the filing fees and publication expenses in connection with the filing of this petition, directly from the beneficiaries, on pro-rata basis, in accordance with Regulation 70(1) of the 2019 Tariff Regulations.

53. Similarly, RLDC Fees & charges paid by the Petitioner in terms of the Central Electricity Regulatory Commission (Fees and Charges of Regional Load Dispatch Centre and other related matters) Regulations, 2015, shall be recovered from the beneficiaries. In addition, the Petitioner is entitled recovery of statutory taxes, levies, duties, cess etc. levied by the statutory authorities in accordance with the 2019 Tariff Regulations.

Summary

54. The annual fixed charges claimed and allowed for the 2019-24 tariff period are summarized below:

(Rs.*in lakh*)

	2019-20	**2020-21**	**2021-22**	**2022-23**	**2023-24**
Annual Fixed Charges claimed*	11287.77	11305.77	11653.71	12037.12	12414.89
Annual Fixed Charges allowed	**12156.74**	**12518.37**	**12902.88**	**13337.98**	**13774.85**

**Security Expenses have not been included in the above claim. However, the same have been claimed separately and the allowed amount is included in the 'Annual Fixed Charges Allowed'.*

55. Petition No. 232/GT/2020 is disposed in terms of the above.

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

FORM-I

Particulars	
1. Name of the Petitioner/Applicant	NORTH EASTERN ELECTRIC POWER CORPORATTION 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 5. Details of generation assets (a) Generating station/units	As applicable 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. Panyor 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 01.04.1999 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 (c) Date of commercial operation (d) Period for which fee paid (e) Amount of fee paid (f) Surcharge, if any	2052 MW As mentioned at Sl. 5(a) above. Financial Year 2024-25 Rs.90,28,800.00 (Rupees Ninety Lakhs Twenty Eight Thousand Eight Hundred) only
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-filing portal 10th April 2024 Rs.90,28,800.00 (Rupees Ninety Lakhs Twenty Eight Thousand Eight Hundred) only
Note: White 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	10.04.2024 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. : 0364-2225535
वेबसाइट/Website : www.neepco.com ☐ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U4010ML1976GOI001658

Planned & Forced Outage of DHEP units for the year 2019-20 *Up-dated upto 31/03/2020*

Projec	From		To		Duration in Hrs	Duration in Decimal Hrs	Loss considering RWL MU	Reasons
	unit	Time mm/dd/yy hrs	Time mm/dd/yy hrs					
DHEP	I	7-5-19 14:56	7-7-19 13:52	46:56:00	46.93	0.0	S/D for drowning of 2 (Two) persons in Doyang River down stream of the Power House.
	I	8-6-19 9:20	8-6-19 9:37	0:17:00	0.28	0.0	Tripped for Voltage Jerk.
	I	9-3-19 17:26	9-3-19 18:01	0:33:00	0.55	0.0	Heavy voltage jerk.
	I	9-26-19 16:16	9-26-19 17:04	0:48:00	0.80	0.0	Tripping of Doyang DD-2 and Mukokchung Feeder.
	I	10-23-19 17:32	10-23-19 17:55	0:23:00	0.38	0.0	Thyristor Cooling fan problem.
	I	10-27-19 8:30	10-27-19 13:11	4:41:00	4.68	0.0	Excitation problem.
	I	10-30-19 11:38	10-30-19 11:47	0:09:00	0.15	0.0	Tripping of Doyand-Wokha feeder for Distance Protection.
	I	12-2-19 17:15	12-3-19 16:46	23:33:00	23.55	0.0	S/D for Excitation problem
	I	1-9-20 16:00	1-9-20 16:22	0:22:00	0.37	0.0	Delayed for Station supply transformer problem.
	I	2-3-20 0:00	2-16-20 15:38	327:38:00	327.63	0.0	APM Works
	I	2-16-20 18:01	2-16-20 19:21	1:20:00	1.33	0.0	Wiring Problem(Fault at Control Desk).
	I	2-25-20 16:39	2-25-20 17:15	0:36:00	0.60	0.0	Tripped for Voltage Jerk
	I	2-25-20 19:31	2-25-20 19:53	0:22:00	0.37	0.0	Tripped for Voltage Jerk
	I	3-2-20 19:42	3-2-20 19:52	0:10:00	0.17	0.0	Tripped for heavy voltage jerk
	I	3-22-20 18:17	3-22-20 18:33	0:16:00	0.27	0.0	Tripped for Voltage Jerk
	I						
	II	4-22-19 17:35	4-22-19 17:38	0:03:00	0.05	0.0	Governor problem (Replaced by U-I)
	II	6-7-19 19:34	6-7-19 19:47	0:13:00	0.22	0.0	Tripped for Voltage Jerk.
	II	7-5-19 3:44	7-6-19 4:24	0:40:00	0.67	0.0	Heavy Voltage Jerk
	II	7-5-19 14:56	7-7-19 13:52	46:57:00	46.95	0.0	S/D for drowning of 2 (Two) persons in Doyang River down stream of the Power House.
	II	7-24-19 10:33	7-24-19 10:38	0:05:00	0.08	0.0	Tripping of DD-II feeder for distance protection.
	II	7-24-19 11:56	7-24-19 12:08	0:12:00	0.20	0.0	Tripping of DD-II feeder for distance protection.
	II	8-3-19 9:17	8-3-19 9:44	0:27:00	0.45	0.0	Tripped for Governor oil pressure low.
	II	8-8-19 10:12	8-8-19 10:27	0:15:00	0.25	0.0	Tripped for Governor Oil Pressure very low.
	II	8-13-19 4:31	8-13-19 5:01	0:30:00	0.50	0.0	Tripped for Heavy Jerk
	II	8-13-19 7:33	8-13-19 10:54	3:21:00	3.35	0.0	Tripped for Governor Problem.
	II	9-3-19 17:28	9-3-19 17:52	0:24:00	0.40	0.0	Heavy voltage jerk.
	II	9-8-19 17:30	9-8-19 19:20	1:50:00	1.83	0.0	Governor problem.
	II	9-10-19 17:30	9-10-19 19:51	2:21:00	2.35	0.0	Excitation problem.
	II	9-20-19 11:11	9-20-19 11:52	0:41:00	0.68	0.0	Tripped for Voltage jerk.
	II	9-25-19 21:04	9-25-19 21:35	0:31:00	0.52	0.0	Tripped for Voltage jerk.
	II	9-28-19 16:16	9-28-19 17:09	0:53:00	0.88	0.0	Tripping of Doyang DD-2 and Mukokchung Feeder.
	II	10-7-19 4:58	10-7-19 6:15	1:17:00	1.28	0.0	Tripped for Heavy Jerk.
	II	10-30-19 11:38	10-30-19 12:10	0:32:00	0.53	0.0	Tripping of Doyand-Wokha feeder for Distance Protection.
	II	11-6-19 20:30	11-6-19 20:42	0:12:00	0.20	0.0	Tripped for voltage jerk
	II	11-30-19 19:12	12-1-19 11:40	16:28:00	16.47	0.0	S/D for Excitation problem
	II	12-14-19 17:42	12-14-19 18:12	0:30:00	0.50	0.0	Heavy voltage jerk.
	II	1-14-20 9:00	2-1-20 0:00	423:00:00	423.00	0.0	APM Works
	II	2-1-20 0:00	2-1-20 22:00	22:00:00	22.00	0.0	
	II	2-2-20 16:52	2-3-20 15:35	22:43:00	22.72	0.0	S/D for Protection Relay circuit problem.
	II	2-5-20 21:21	2-6-20 19:09	21:47:00	21.78	0.0	Tripped for voltage jerk and further excitation problem
	II	2-13-20 16:22	2-13-20 16:56	0:34:00	0.57	0.0	Tripped for Voltage jerk
	II	2-25-20 20:24	2-25-20 20:40	0:16:00	0.27	0.0	Tripped for Voltage jerk
	II	3-2-20 19:42	3-2-20 19:54	0:12:00	0.20	0.0	Tripped for heavy voltage jerk
	II	3-17-20 16:36	3-17-20 16:46	0:10:00	0.17	0.0	Tripped for negative phase sequence
	II	3-22-20 18:17	3-22-20 18:40	0:23:00	0.38	0.0	Tripped for Voltage Jerk
	II						
	III	4-14-19 17:58	4-14-19 18:45	0:47:00	0.78	0.0	Tripped for Electrical Lockout
	III	7-5-19 3:44	7-5-19 4:10	0:26:00	0.43	0.0	Heavy Voltage Jerk
	III	7-5-19 14:57	7-7-19 13:52	46:55:00	46.92	0.0	S/D for drowning of 2 (Two) persons in Doyang River down stream of the Power House.
	III	7-19-19 17:40	7-19-19 18:39	0:59:00	0.98	0.0	Voltage Jerk and AVR fail.
	III	9-3-19 17:28	9-3-19 18:04	0:36:00	0.60	0.0	Heavy voltage jerk.
	III	9-20-19 11:11	9-20-19 11:39	0:28:00	0.47	0.0	Tripped for Voltage jerk.
	III	9-25-19 20:48	9-25-19 21:16	0:28:00	0.47	0.0	Tripped for Voltage jerk.
	III	9-28-19 16:16	9-28-19 17:18	1:02:00	1.03	0.0	Tripping of Doyang DD-2 and Mukokchung Feeder.
	III	10-30-19 11:38	10-30-19 12:16	0:38:00	0.63	0.0	Tripping of Doyand-Wokha feeder for Distance Protection.
	III	12-1-19 18:15	12-3-19 15:59	45:44:00	45.73	0.0	S/D for Governor problem.
	III	12-14-19 17:43	12-14-19 18:23	0:40:00	0.67	0.0	Heavy voltage jerk.
	III	1-7-20 18:11	1-8-20 15:54	21:43:00	21.72	0.0	S/D for Cooling water leakage.
	III	1-19-20 16:45	1-22-20 0:00	55:15:00	55.25	0.0	S/D for shaft seal problem
	III	1-22-20 0:00	1-23-20 17:44	41:44:00	41.73	0.0	S/D for EHG problem.
	III	2-23-20 9:00	3-1-20 0:00	159:00:00	159.00	0.0	APM Works (S/D Contd)
	III	3-1-20 0:00	4-1-20 0:00	744:00:00	744.00	0.0	
	III						

Planned & Forced Outage of DHEP units for the year 2020-21

Up-dated upto 31/03/2021

Project	From		To		Duration in Decimal	Loss considering RWL	Outage type	Reasons
	unit	Time mm/dd/yy hrs	Time mm/dd/yy hrs	Duration in Hrs				
DHEP	I	4-2-20 19:11	4-2-20 19:23	0:12:00	0.20		F	Voltage jerk.
	I	4-7-20 17:49	4-7-20 18:01	0:13:00	0.22		F	Voltage Jerk.
	I	4-8-20 18:11	4-9-20 18:18	0:07:00	0.12		F	Voltage Jerk.
	I	4-8-20 19:32	4-9-20 19:38	0:06:00	0.10		F	Voltage Jerk.
	I	4-29-20 18:00	4-29-20 19:49	1:49:00	1.82		F	Excitation problem
	I	5-26-20 18:57	5-26-20 19:05	0:08:00	0.13		F	Voltage Jerk
	I	6-17-20 2:54	6-17-20 3:22	0:28:00	0.47		F	Negatind Phase Sequence & Voltage Jerk
	I	6-17-20 12:23	6-17-20 12:33	0:10:00	0.17		F	Negatind Phase Sequence & Voltage Jerk
	I	6-17-20 13:51	6-17-20 14:11	0:20:00	0.33		F	Negatind Phase Sequence & Voltage Jerk
	I	6-17-20 17:24	6-17-20 17:46	0:22:00	0.37		F	Negatind Phase Sequence & Voltage Jerk
	I	6-18-20 4:45	6-18-20 5:41	0:56:00	0.93		F	Governor oil pressure problem
	I	6-20-20 11:33	6-20-20 11:48	0:15:00	0.25		F	Voltage Jerk
	I	6-22-20 19:24	6-22-20 19:40	0:16:00	0.27		F	Voltage Jerk
	I	6-23-20 8:06	6-23-20 8:18	0:12:00	0.20		F	Voltage Jerk
	I	6-23-20 8:31	6-23-20 12:49	4:18:00	4.30		F	S/D for Generator cooling line system leakage,
	I	6-28-20 10:13	6-28-20 10:53	0:40:00	0.67		F	Voltage Jerk
	I	6-29-20 12:19	6-29-20 12:40	0:21:00	0.35		F	Voltage Jerk
	I	7-2-20 22:11	7-4-20 19:53	45:42:00	45.70		F	E/S/D due to one person drowned at down-stream side
	I	7-6-20 10:27	7-6-20 10:45	0:18:00	0.30		F	Tripped for Voltage Jerk
	I	7-9-20 9:58	7-9-20 11:49	1:51:00	1.85		F	S/D for GT cooling valve replacement
	I	7-9-20 12:53	7-9-20 13:30	0:37:00	0.62		F	Tripped Voltage jerk & NPS trip
	I	7-9-20 13:30	7-9-20 16:38	3:08:00	3.13		F	S/D for Main header cooling water system pipeline leakage
	I	7-12-20 12:09	7-12-20 12:31	0:22:00	0.37		F	Tripped for Voltage Jerk
	I	7-19-20 11:54	7-19-20 12:15	0:21:00	0.35	0.00875	F	Tripped for Voltage Jerk.
	I	7-19-20 13:00	7-19-20 13:29	0:29:00	0.48	0.01208	F	Tripped for Voltage Jerk.
	I	7-19-20 13:47	7-19-20 14:09	0:22:00	0.37	0.00917	F	Tripped for Voltage Jerk.
	I	7-30-20 15:29	7-30-20 15:49	0:20:00	0.33		F	Tripped for Voltage Jerk.
	I	8-17-20 4:18	8-17-20 4:42	0:24:00	0.40	0.01000	F	Tripped for Voltage Jerk.
	I	8-26-20 10:40	8-26-20 11:12	0:32:00	0.53	0.01333	F	Tripped for loss of excitation.
	I	9-9-20 10:20	9-9-20 10:46	0:26:00	0.43		F	Tripped for voltage jerk (Load through)
	I	3-5-21 13:08	3-5-21 13:21	0:13:00	0.22		F	Excitation problem
	I	3-6-21 3:49	3-6-21 3:54	0:05:00	0.08		F	Negative phase sequence
	I	3-9-21 14:55	3-9-21 15:10	0:15:00	0.25		F	Tripped for heavy voltage jerk.
	I	3-15-21 13:18	3-15-21 15:33	2:15:00	2.25		F	Tripped for heavy voltage jerk.
	I	3-21-21 13:36	3-21-21 13:48	0:12:00	0.20		F	Tripped for voltage jerk.
	I	3-22-21 11:08	3-22-21 11:21	0:13:00	0.22		F	Tripped for voltage jerk.
	I	3-30-21 20:47	3-30-21 21:01	0:14:00	0.23		F	Power Swing
	I	3-30-21 23:07	3-30-21 23:13	0:06:00	0.10		F	Power Swing
	I			0:00:00	0.00		F	
	II	5-2-20 18:57	5-2-20 21:00	2:03:00	2.05		F	Bottom Bracket oil leakage
	II	5-26-20 18:57	5-26-20 19:31	0:34:00	0.57		F	Voltage Jerk
	II	6-13-20 12:12	6-13-20 12:24	0:12:00	0.20		F	Voltage Jerk
	II	6-13-20 21:37	6-13-20 22:17	0:40:00	0.67		F	Voltage Jerk
	II	6-15-20 16:24	6-15-20 18:37	2:13:00	2.22		F	Voltage Jerk
	II	6-17-20 2:54	6-17-20 3:28	0:34:00	0.57		F	Negatind Phase Sequance & Voltage Jerk
	II	6-17-20 12:23	6-17-20 12:43	0:20:00	0.33		F	Negatind Phase Sequance & Voltage Jerk
	II	6-17-20 13:51	6-17-20 14:13	0:22:00	0.37		F	Negatind Phase Sequance & Voltage Jerk
	II	6-17-20 17:24	6-17-20 17:42	0:18:00	0.30		F	Negatind Phase Sequance & Voltage Jerk
	II	6-20-20 11:33	6-20-20 11:52	0:19:00	0.32		F	Voltage Jerk
	II	6-22-20 19:24	6-22-20 19:51	0:27:00	0.45		F	Voltage Jerk
	II	6-23-20 8:06	6-23-20 8:21	0:15:00	0.25		F	Voltage Jerk
	II	6-28-20 10:13	6-28-20 10:33	0:20:00	0.33		F	Voltage Jerk
	II	6-29-20 12:19	6-29-20 12:30	0:11:00	0.18		F	Voltage Jerk
	II	7-2-20 22:11	7-4-20 19:46	45:35:00	45.58		F	E/S/D due to one person drowned at down-stream side
	II	7-6-20 10:27	7-6-20 11:05	0:38:00	0.63		F	Tripped for Voltage Jerk
	II	7-9-20 9:59	7-9-20 11:51	1:52:00	1.87		F	S/D for GT cooling valve replacement
	II	7-9-20 12:53	7-9-20 13:30	0:37:00	0.62		F	Tripped Voltage jerk & NPS trip
	II	7-9-20 13:30	7-9-20 16:44	3:14:00	3.23		F	S/D for Main header cooling water system pipeline leakage
	II	7-11-20 8:36	7-11-20 15:28	6:52:00	6.87		F	Governor problem
	II	7-12-20 12:09	7-12-20 12:51	0:42:00	0.70		F	Tripped for Voltage Jerk
DHEP	II	7-15-20 14:17	7-15-20 14:29	0:12:00	0.20	0.00500	F	Governor problem
	II	7-19-20 11:54	7-19-20 12:37	0:43:00	0.72	0.01792	F	Tripped for Voltage Jerk.
	II	7-19-20 13:00	7-19-20 13:37	0:37:00	0.62	0.01542	F	Tripped for Voltage Jerk.
	II	7-19-20 13:47	7-19-20 14:28	0:41:00	0.68	0.01708	F	Tripped for Voltage Jerk.
	II	7-24-20 3:36	7-24-20 4:15	0:39:00	0.65		F	Tripped for Voltage Jerk.
	II	7-25-20 5:58	7-25-20 6:41	0:43:00	0.72		F	Tripped for loss of excitation (field failure).
	II	7-30-20 15:29	7-30-20 16:00	0:31:00	0.52		F	Tripped for Voltage Jerk.
	II	8-1-20 19:28	8-1-20 19:50	0:22:00	0.37		F	Excitation problem (Field failure)
	II	8-4-20 3:29	8-4-20 3:56	0:27:00	0.45		F	Loss of excitation.
	II	8-5-20 12:50	8-5-20 16:32	3:42:00	3.70		F	Tripped for Voltage Jerk.
	II	8-8-20 19:30	8-8-20 20:21	0:51:00	0.85		F	Tripped for Voltage Jerk.

II	9-8-20 11:01	9-8-20 12:54	1:53:00	1.88		F	S/D for replacement of Governor Feedback rope
II	9-10-20 1:33	9-10-20 2:14	0:41:00	0.68		F	Tripped for voltage jerk (Load through).
II	9-21-20 10:47	9-21-20 11:22	0:35:00	0.58		F	Tripping of OPU pump.
II	10-4-20 16:16	10-4-20 16:50	0:34:00	0.57		F	Field Failure
II	10-31-20 15:51	10-31-20 16:24	0:33:00	0.55		F	Volatge jerk.
II	12-12-20 17:13	12-12-20 17:55	0:42:00	0.70		F	OPU oil level low
II	3-9-21 14:55	3-9-21 15:30	0:35:00	0.58		F	Tripped for heavy voltage jerk.
II	3-20-21 12:09	3-20-21 12:18	0:09:00	0.15		F	Tripped for voltage jerk.
II	3-21-21 11:25	3-21-21 11:34	0:09:00	0.15		F	Tripped for voltage jerk.
II	3-21-21 13:36	3-21-21 14:11	0:35:00	0.58		F	Tripped for voltage jerk.
II	3-23-21 15:00	3-23-21 15:35	0:29:00	0.48		F	Tripped for voltage jerk.
II	3-30-21 20:47	3-30-21 21:13	0:26:00	0.43			Power Swing
II			0:00:00	0.00		F	
III	4-1-20 0:00	5-1-20 0:00	720:00:00	720.00		F	S/D for rectification of GT problem (S/D w.e.f. 14/03/2020)
	5-1-20 0:00	6-1-20 0:00	744:00:00	744.00			
	6-1-20 0:00	7-1-20 0:00	720:00:00	720.00			
	7-1-20 0:00	8-1-20 0:00	744:00:00	744.00	4.20000		
	8-1-20 0:00	9-1-20 0:00	744:00:00	744.00	10.80000		
	9-1-20 0:00	10-1-20 0:00	720:00:00	720.00			
	10-1-20 0:00	11-1-20 0:00	744:00:00	744.00			
	11-1-20 0:00	12-1-20 0:00	720:00:00	720.00			
	12-1-20 0:00	1-1-21 0:00	744:00:00	744.00			
	1-1-21 0:00	2-1-21 0:00	744:00:00	744.00			
	2-1-21 0:00	2-17-21 20:59	404:59:00	404.96			
III	2-28-21 20:28	2-28-21 21:24	0:56:00	0.93		F	Generator transformer Earth Fault protection operated.
III	3-2-21 16:39	3-2-21 17:13	0:34:00	0.57		F	Negative phase sequence.
III	3-5-21 20:46	3-5-21 21:00	0:14:00	0.23		F	Generator transformer Earth Fault protection operated.
III	3-6-21 12:40	3-6-21 17:51	5:11:00	5.18			Negative phase sequence and GT Restricted Earth Fault protection operation problem.
III	3-6-21 17:56	3-7-21 12:30	18:34:00	18.57		F	Negative phase sequence and GT Restricted Earth Fault protection operation problem.
III	3-7-21 13:53	3-7-21 17:22	3:29:00	3.48		F	Negative phase sequence and GT Restricted Earth Fault protection operation problem.
III			0:00:00	0.00		F	
					15.10875		

Planned & Forced Outage of DHPS units for the year 2021-22

Up-dated upto 31/03/2022

Project	Unit	From		To		Duration in Hrs	Duration in Decimal Hrs	Loss considering RWL MU	Outage type	Reasons
		unit	Time mm/dd/yy hrs	unit	Time mm/dd/yy hrs					
DHEP	Unit # I	I	4-5-21 0:00	I	5-1-21 0:00	624:00:00	624.00		P	APM works
		I	5-1-21 0:00	I	5-3-21 18:05	66:05:00	66.08		F	
		I	7-8-21 9:07	I	7-8-21 9:29	0:22:00	0.37		F	Load thrown
		I	7-20-21 1:56	I	7-20-21 2:11	0:15:00	0.25		F	Relay 86 - I operated.
		I	7-20-21 11:45	I	7-20-21 12:09	0:24:00	0.40		F	Voltage jerk
		I	7-20-21 18:01	I	7-21-21 13:21	19:20:00	19.33		F	S/D for cooling water pipe line problem
		I	7-21-21 21:15	I	7-21-21 21:31	0:16:00	0.27		F	Voltage jerk.
		I	7-22-21 10:02	I	7-22-21 10:17	0:15:00	0.25		F	Heavy voltage jerk.
		I	7-22-21 10:25	I	7-22-21 10:41	0:16:00	0.27		F	Heavy voltage jerk.
		I	8-29-21 15:45	I	8-29-21 15:55	0:10:00	0.17		F	Heavy voltage jerk.
		I	9-17-21 4:37	I	9-17-21 4:49	0:12:00	0.20		F	Heavy Voltage Jerk
		I	9-29-21 3:53	I	9-29-21 4:12	0:19:00	0.32		F	Heavy Voltage Jerk
		I	11-10-21 17:03	I	11-10-21 17:48	0:45:00	0.75		F	Heavy Voltage Jerk.
		I		I		0:00:00	0.00		F	
	Unit # II	II	4-11-21 17:00	II	4-11-21 21:00	4:00:00	4.00		F	Person drowned in Reservoir
		II	4-22-21 19:23	II	4-22-21 19:33	0:10:00	0.17		F	Tripped for heavy voltage jerk
		II	5-5-21 0:00	II	5-19-21 11:35	347:35:00	347.60		P	APM works
		II	6-22-21 20:05	II	6-22-21 20:38	0:33:00	0.55		F	Governor oil pressure low
		II	6-24-21 18:30	II	6-24-21 19:14	0:44:00	0.73		F	Governor problem.
		II	7-21-21 11:48	II	7-21-21 12:01	0:13:00	0.22		F	U-II [11:48 hrs to 12:01 hrs & 21:15 hrs to 21:50 hrs] a
		II	7-21-21 21:15	II	7-21-21 21:50	0:35:00	0.58		F	Voltage jerk
		II	7-22-21 10:02	II	7-22-21 10:21	0:19:00	0.32		F	Heavy voltage jerk.
		II	7-22-21 10:25	II	7-22-21 10:48	0:23:00	0.38		F	Heavy voltage jerk.
		II	10-16-21 17:51	II	10-17-21 0:00	6:09:00	6.15		F	Cooling Water Line Leakage.
		II	11-8-21 19:21	II	11-8-21 19:45	0:24:00	0.40		F	Heavy voltage jerk.
		II	11-13-21 16:45	II	11-13-21 17:15	0:30:00	0.50		F	GT Cooling line leakage.
		II	1-31-22 17:15	II	1-31-22 17:55	0:40:00	0.67		F	Delayed for Guide Vane problem.
		II	1-31-22 17:15	II	1-31-22 17:55	0:40:00	0.67		F	Guide Vane problem
		II	2-8-22 8:50	II	2-25-22 11:19	409:29:00	409.48		P	APM works
		II		II		0:00:00	0.00		F	
	Unit # III	III	4-11-21 17:15	III	4-11-21 21:30	4:15:00	4.25		F	Person drowned in Reservoir
		III	5-9-21 17:45	III	5-9-21 18:59	1:14:00	1.23		F	Governor problem
		III	6-22-21 16:33	III	6-22-21 16:41	0:08:00	0.13		F	Voltage jerk.
		III	7-20-21 11:45	III	7-20-21 11:56	0:11:00	0.18		F	Voltage jerk
		III	7-21-21 11:48	III	7-21-21 12:04	0:16:00	0.27		F	Voltage jerk
		III	7-21-21 21:15	III	7-21-21 21:47	0:32:00	0.53		F	Voltage jerk
		III	7-22-21 10:02	III	7-22-21 10:51	0:49:00	0.82		F	Heavy voltage jerk.
		III	9-28-21 18:00	III	9-28-21 18:25	0:25:00	0.43		F	Synchronization delayed for Excitation problem.
		III	10-26-21 17:06	III	10-26-21 18:01	0:55:00	0.92		F	Heavy voltage jerk.
		III	1-6-22 0:00	III	2-1-22 0:00	624:00:00	624.00		P	APM Works
		III	2-1-22 0:00	III	2-4-22 11:00	83:00:00	83.00			
		III	2-6-22 16:20	III	2-5-22 16:47	22:27:00	22.45		F	S/D for stator temp. very high & leakage in the shaftseal
		III	2-6-22 16:08	III	2-7-22 17:23	47:15:00	47.25		F	S/D for leakage of cooling water in turbine shaft seal.
		III		III		0:00:00	0.00		F	

Planned & Forced Outage of DHPS units for the year 2022-23

Up-dated upto 31/03/2023

Projec	Unit	From unit	From Time mm/dd/yy hrs	To Time mm/dd/yy hrs	Duration in Hrs	Duration in Decimal Hrs	Loss considering RWL MU	Outage type	Reasons
DHEP	Unit # I	I	4-5-22 0:00	4-23-22 12:00	444:00:00	444.00	0.00	P	APM works
		I	5-6-22 17:38	5-6-22 17:43	0:05:00	0.08	0.00	F	Heavy jerk
		I	5-19-22 4:30	5-19-22 4:50	0:20:00	0.33	0.00	F	Heavy voltage jerk
		I	7-13-22 11:04	7-13-22 12:22	1:18:00	1.30	0.00	F	E/S/D to check the vibration sensor's.
		I	11-1-22 0:00	11-4-22 16:25	88:24:29	88.41	0.00	P	S/D for MIV Seal replacement of all the three units (S/D could not be completed due to Intake Gate leakage
		I	11-8-22 16:51	11-11-22 0:00	55:09:00	55.15	0.00	F	S/D for MIV Limit Switch problem
		I	11-11-22 0:00	11-30-22 12:01	468:01:00	468.02	0.00	P	APM works
		I	1-16-23 16:57	1-16-23 17:13	0:16:00	0.27	0.00	F	Voltage jerk / excitation problem.
		I	1-27-23 18:34	1-28-23 14:30	19:56:00	19.93	0.00	F	Tripped for hot air and air cooler temp. very high
		I	3-5-23 17:33	3-5-23 18:12	0:39:00	0.65	0.00	F	Governor failure.
		I			0:00:00	0.00	0.00	F	
	Unit # II	II	4-6-22 17:00	4-6-22 18:34	1:34:00	1.57	0.00	F	Delayed for Bottom Guide Bearing temperature high
		II	5-11-22 19:24	5-11-22 20:20	0:56:00	0.93	0.00	F	Heavy Jerk.
		II	5-25-22 19:17	5-25-22 19:52	0:35:00	0.58	0.00	F	Loss of excitation.
		II	5-27-22 16:25	5-31-22 14:30	94:05:00	94.08	0.00	F	S/D for GT Oil system problem
		II	6-4-22 12:24	6-4-22 12:40	0:16:00	0.27	0.00	F	Excitation problem
		II	7-1-22 11:30	7-1-22 12:56	1:26:00	1.43	0.00	F	Replacement of 48 V DC/DC converter of Static excitation equipment and checking of cooling fan of thyristor.
		II	7-14-22 11:07	7-14-22 12:39	1:32:00	1.53	0.00	F	E/S/D to check the vibration sensor's.
		II	8-3-22 10:09	8-3-22 10:52	0:43:00	0.72	0.00	F	Voltage Jerk.
		II	9-12-22 16:15	9-13-22 16:18	24:03:00	24.05	0.00	F	S/D for HMC problem.
		II	9-16-22 10:01	9-16-22 14:56	4:55:00	4.92	0.00	F	Governor problem.
		II	9-19-22 7:07	9-19-22 7:36	0:29:00	0.48	0.00	F	OPU problem
		II	9-19-22 17:00	9-19-22 21:01	4:01:00	4.02	0.00	F	OPU problem
		II	9-20-22 6:37	9-20-22 7:23	0:46:00	0.77	0.00	F	Governor oil pressure problem
		II	9-20-22 9:02	9-20-22 13:05	4:03:00	4.05	0.00	F	S/D for charging of OPU pump.
		II	9-23-22 3:14	9-23-22 15:42	12:28:00	12.47	0.00	F	Tripped and S/D for OPU/EHG problem.
		II	9-29-22 19:58	9-29-22 20:24	0:26:00	0.43	0.00	F	Governor problem.
		II	10-3-22 3:24	10-3-22 3:54	0:30:00	0.50	0.00	F	Tripped for Over current (Relay 86 I)
		II	10-26-22 12:43	10-26-22 14:54	2:11:00	2.18	0.00	F	Relay 86 I & 86 A optd
		II	10-26-22 15:00	10-27-22 12:20	21:20:00	21.33	0.00	F	Gen. Hot Air Temperature very high.
		II	10-29-22 13:42	10-29-22 17:13	3:31:00	3.52	0.00	F	Cooling water system problem (hot air temp. very high).
		II	11-1-22 0:00	11-4-22 16:50	88:50:00	88.83	0.00	P	S/D for MIV Seal replacement of all the three units (S/D could not be completed due to Intake Gate leakage
		II	12-24-22 19:09	12-24-22 19:15	0:06:00	0.10	0.00	F	Station supply failure.
		II	1-9-23 0:00	1-28-23 13:36	469:36:00	469.60	0.00	P	APM works
		II			0:00:00	0.00	0.00	F	
	Unit # III	III	4-1-22 0:00	4-29-22 12:30	684:30:00	684.50	0.00	P	S/D for Replacement of spare GT (28.5 MVA)
		III	5-6-22 18:15	5-7-22 11:30	17:15:00	17.25	0.00	F	S/D for Excitation problem
		III	5-13-22 16:15	5-13-22 16:51	0:36:00	0.60	0.00	F	Loss of excitation.
		III	5-30-22 19:45	5-30-22 20:21	0:36:00	0.60	0.00	F	Negative phase sequence
		III	6-8-22 18:00	6-9-22 11:06	17:06:00	17.13	0.00	F	S/D for Excitation problem.
		III	6-29-22 10:37	6-29-22 12:36	1:59:00	1.98	0.00	F	S/D for Replacement of Circuit Breaker trip coil.
		III	7-15-22 10:31	7-15-22 12:29	1:58:00	1.97	0.00	F	E/S/D to check the vibration sensors.
		III	7-23-22 11:03	7-23-22 16:47	5:44:00	5.73	0.00	F	S/D for checking/inspection of rotor EIF
		III	7-26-22 16:36	7-26-22 17:17	0:41:00	0.68	0.00	F	Tripped for heavy voltage Jerk.
		III	8-4-22 12:31	8-5-22 11:08	22:37:00	22.62	0.00	F	Rotor Earth Fault Stage-I.
		III	8-11-22 10:45	8-11-22 11:55	1:10:00	1.17	0.00	F	Excitation problem
		III	9-14-22 11:23	9-14-22 11:37	0:14:00	0.23	0.00	F	Non electrical lock out (86 Z operated).
		III	10-2-22 17:05	10-3-22 15:30	22:24:00	22.40	0.00	F	S/D for Shaft seal leakage.
		III	11-1-22 0:00	11-4-22 17:05	89:04:24	89.07	0.00	P	S/D for MIV Seal replacement of all the three units (S/D could not be completed due to Intake Gate leakage
		III	2-8-23 0:00	2-16-23 16:19	304:19:00	304.32	0.00	P	APM works
		III			0:00:00	0.00	0.00	F	

Energy Generation and Loss During the Year 2023-24

DHEP

Month	Design Energy	Actual Generation	Loss for Forced outage	Loss for Planned outage	Loss for System Constraint	Loss for Power Regulation/Un-Schedule	Expected Generation	Loss for less inflow	Avr RWL	RWL on 1st Day of month	Actual Plant Availability Factor (PAF)	M/C Availability
	MU	MU	MU	MU	MU	MU	MU	MU	Mtr	Mtr	%	%
1	2	3	4	5	6 A	6 B	7	8=7-3-4-5-6	9	10	11	12
Apr-23	11.52	1.4146	0.00000	0.00000	0.00000	0.00000	11.52	10.1054	307.67	307.80	18.99	**71.53**
May-23	12.79	1.7292	0.00000	0.00000	0.00000	0.00000	12.79	11.0608	306.56	307.10	21.91	**99.98**
Jun-23	22.90	5.0686	0.00000	0.00000	0.00000	0.00000	22.90	17.8314	306.86	306.35	48.69	**99.99**
Jul-23	14.28	32.4193	0.00000	0.00000	0.00000	0.01355	14.28		313.90	310.10	78.96	**99.89**
Aug-23	55.80	52.4181	0.06958	0.00000	0.00000	0.00000	55.80	3.3124	320.60	315.00	93.33	**99.78**
Sep-23	31.97	33.4931	0.00000	0.00000	0.00000	0.01652	31.97		320.92	321.85	91.69	**97.83**
Oct-23	20.01	16.6164	0.00000	0.00000	0.00000	0.06926	20.01	3.3243	318.08	319.75	87.66	**99.92**
Nov-23	11.52	6.4659	0.00000	0.00000	0.00000	0.06652	11.52	4.9876	316.66	317.20	84.77	**99.81**
Dec-23	11.90	5.9002	0.00000	0.00000	0.00000	0.02363	11.90	5.9762	314.96	315.85	80.16	**99.15**
Jan-24	11.90	4.7225	0.00000	0.00000	0.00000	0.00255	11.90	7.1750	312.57	313.80	62.57	**81.16**
Feb-24	10.75	3.0660	0.00000	0.00000	0.00000	0.00387	10.75	7.6802	310.09	311.10	42.62	**76.96**
Mar-24	11.90	2.1352	0.00000	0.00000	0.00000	0.02646	11.90	9.7384	308.76	309.45	26.02	**100.00**
Total	227.24	165.4488	0.06958	0.00000	**0.00000**	**0.22237**	227.2400	81.1916	**313.15**		**61.56**	**93.94**

Note: 1. The expected generation (Col-7) is as per the Design energy.

2. There is no loss of generation for less inflow (Col-8) in the month of Jul and Sep as the actual generation including loss is more than the Expected Generation/Design energy.

3. There is no Energy loss for Planned Shutdown (APM) as availed in lean period.

4. No Energy loss considred for forced outages which are during non-spilling period and water saved were utilised for further generation.

Customized Rainfall Information System (CRIS)

Hydromet Division
India Meteorological Department
Ministry Of Earth Sciences
New Delhi-110 003

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Choose the States/UTs: NAGALAND Select District: WOKHA GO

District : WOKHA

Note :(1) The District Rainfall in millimeters (R/F) shown below are the arithmetic averages of Rainfall of Stations under the District.
(2) % Dep. are the Departures of rainfall from the long period averages of rainfall for the District.
(3) Blank Spaces show non-availability of Data

YEAR	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2018	5.0	-75	1.0	-98	0.0	-100					188.5	-55	600.8	21	304.8	-36	175.0	-37	15.8	-88	6.7	-88	33.8	105
2019	6.0	-66	13.7	-63	30.2	-50	100.1	-26	84.1	-63	59.3	-82	313.5	-27	224.8	-44	293.0	-3	191.9	46	19.0	-4	5.5	-60
2020	24.5	37	22.5	-40	30.9	-49	86.1	-36	145.8	-37	236.3	-29	271.0	-37	83.2	-79	121.1	-60	140.0	7	28.6	44	0.2	-99
2021	2.9	-84	6.7	-82	30.9	-49	30.9	-77	147.2	-36	219.9	-34	311.2	-27	341.2	-16	295.4	-2	83.4	-36	0.0	-100	27.7	101
2022	48.2	199%	38.2	67%	7.3	-85%	231.0	76%	277.0	35%	373.5	25%	307.5	-14%	160.6	-51%	225.3	-14%	145.2	10%	0.0	-100%	7.0	-38%

Best viewed resolutions 1280 X 800 to 1920 X 1080

Developed By: NESDIS | Environment

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Customized Rainfall Information System (CRIS)

Hydromet Division
India Meteorological Department
Ministry Of Earth Sciences
New Delhi-110 003

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Choose the State/UTs: NAGALAND | Select District: ZUNHEBOTO | GO

District : ZUNHEBOTO

Note :(1) The District Rainfall in millimeters (R/F) shown below are the arithmatic averages of Rainfall of Stations under the District.
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YEAR	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2018											165.0	-53	447.0	1	220.0	-38	184.0	-24	64.0	-48	0.0	-100	29.0	171
2019	12.0	-49	17.0	-36	26.0	-60	144.0	-19	107.0	-53	393.0	12	232.0	-47	182.0	-48			133.6	9	49.0	18	3.0	-73
2020	31.0	31	21.0	-21	32.0	-51	86.5	-51	188.4	-16	471.7	35	338.0	-23	361.0	2	167.4	-31	254.5	108	54.6	32	0.0	-100
2021	1.0	-96	1.1	-96	1.2	-98	48.5	-73	136.9	-39	308.5	-12	275.8	-38	336.3	-5	124.5	-49	74.4	-39	0.0	-100	36.1	228
2022	46.3	174%	49.2	465%	13.3	-56%	195.2	118%	324.2	85%	328.7	9%	442.4	52%	385.1	43%	301.2	39%	179.9	132%	0.0	-100%	24.3	262%

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DHPS	2019-20						
Date	Calculated Avg Inflow	Usefull Inflow	Possible Gen as per Inflow (MU)	**Actual Gen (MU)**	Excess Gen (MU)	Short Gen (MU)	Max of possible Gen and Actual Gen
1 Apr 19	0.000	0.000	0.0000	**0.1052**	0.1052	0.0000	0.1052
2 Apr 19	4.346	4.346	0.0602	**0.0538**	0.0000	-0.0064	0.0602
3 Apr 19	0.005	0.005	0.0001	**0.0538**	0.0537	0.0000	0.0538
4 Apr 19	0.000	0.000	0.0000	**0.0517**	0.0517	0.0000	0.0517
5 Apr 19	8.758	8.758	0.1214	**0.0548**	0.0000	-0.0666	0.1214
6 Apr 19	4.216	4.216	0.0584	**0.0520**	0.0000	-0.0064	0.0584
7 Apr 19	0.178	0.178	0.0025	**0.0562**	0.0537	0.0000	0.0562
8 Apr 19	4.324	4.324	0.0599	**0.0535**	0.0000	-0.0064	0.0599
9 Apr 19	8.902	8.902	0.1234	**0.0568**	0.0000	-0.0666	0.1234
10 Apr 19	4.389	4.389	0.0608	**0.0544**	0.0000	-0.0064	0.0608
11 Apr 19	4.403	4.403	0.0610	**0.0546**	0.0000	-0.0064	0.0610
12 Apr 19	4.259	4.259	0.0590	**0.0526**	0.0000	-0.0064	0.0590
13 Apr 19	4.216	4.216	0.0584	**0.0520**	0.0000	-0.0064	0.0584
14 Apr 19	2.770	2.770	0.0384	**0.0440**	0.0056	0.0000	0.0440
15 Apr 19	5.221	5.221	0.0723	**0.0539**	0.0000	-0.0184	0.0723
16 Apr 19	9.381	9.381	0.1300	**0.0514**	0.0000	-0.0786	0.1300
17 Apr 19	20.759	20.759	0.2877	**0.0527**	0.0000	-0.2350	0.2877
18 Apr 19	0.000	0.000	0.0000	**0.0556**	0.0556	0.0000	0.0556
19 Apr 19	5.995	5.995	0.0831	**0.0550**	0.0000	-0.0281	0.0831
20 Apr 19	5.120	5.120	0.0709	**0.0525**	0.0000	-0.0184	0.0709
21 Apr 19	8.114	8.114	0.1124	**0.0555**	0.0000	-0.0569	0.1124
22 Apr 19	0.000	0.000	0.0000	**0.0516**	0.0516	0.0000	0.0516
23 Apr 19	2.934	2.934	0.0407	**0.0583**	0.0176	0.0000	0.0583
24 Apr 19	2.732	2.732	0.0379	**0.0555**	0.0176	0.0000	0.0555
25 Apr 19	2.725	2.725	0.0378	**0.0554**	0.0176	0.0000	0.0554
26 Apr 19	0.989	0.989	0.0137	**0.0554**	0.0417	0.0000	0.0554
27 Apr 19	4.526	4.526	0.0627	**0.0563**	0.0000	-0.0064	0.0627
28 Apr 19	5.322	5.322	0.0737	**0.0553**	0.0000	-0.0184	0.0737
29 Apr 19	5.532	5.532	0.0767	**0.0534**	0.0000	-0.0233	0.0767
30 Apr 19	9.452	9.452	0.1310	**0.0981**	0.0000	-0.0329	0.1310

1 May 19	3.547	3.547	0.0491	**0.0981**	0.0490	0.0000	0.0981
2 May 19	6.013	6.013	0.0833	**0.0553**	0.0000	-0.0280	0.0833
3 May 19	5.623	5.623	0.0779	**0.0547**	0.0000	-0.0232	0.0779
4 May 19	15.842	15.842	0.2195	**0.1109**	0.0000	-0.1086	0.2195
5 May 19	28.483	28.483	0.3947	**0.1297**	0.0000	-0.2650	0.3947
6 May 19	10.542	10.542	0.1461	**0.1409**	0.0000	-0.0052	0.1461
7 May 19	24.381	24.381	0.3378	**0.1366**	0.0000	-0.2012	0.3378
8 May 19	0.000	0.000	0.0000	**0.2061**	0.2061	0.0000	0.2061
9 May 19	2.178	2.178	0.0302	**0.1934**	0.1632	0.0000	0.1934
10 May 19	1.882	1.882	0.0261	**0.1905**	0.1644	0.0000	0.1905
11 May 19	0.298	0.298	0.0041	**0.1866**	0.1825	0.0000	0.1866
12 May 19	1.084	1.084	0.0150	**0.1181**	0.1031	0.0000	0.1181
13 May 19	2.907	2.907	0.0403	**0.1157**	0.0754	0.0000	0.1157
14 May 19	3.119	3.119	0.0432	**0.0609**	0.0177	0.0000	0.0609
15 May 19	5.617	5.617	0.0778	**0.0498**	0.0000	-0.0280	0.0778
16 May 19	3.863	3.863	0.0535	**0.0700**	0.0165	0.0000	0.0700
17 May 19	5.280	5.280	0.0732	**0.0704**	0.0000	-0.0028	0.0732
18 May 19	3.757	3.757	0.0521	**0.0517**	0.0000	-0.0004	0.0521
19 May 19	2.889	2.889	0.0400	**0.0529**	0.0129	0.0000	0.0529
20 May 19	2.317	2.317	0.0321	**0.0546**	0.0225	0.0000	0.0546
21 May 19	2.469	2.469	0.0342	**0.0543**	0.0201	0.0000	0.0543
22 May 19	10.079	10.079	0.1397	**0.0551**	0.0000	-0.0846	0.1397
23 May 19	7.265	7.265	0.1007	**0.0522**	0.0000	-0.0485	0.1007
24 May 19	24.053	24.053	0.3333	**0.1044**	0.0000	-0.2289	0.3333
25 May 19	41.667	41.667	0.5774	**0.1921**	0.0000	-0.3853	0.5774
26 May 19	32.282	32.282	0.4473	**0.2076**	0.0000	-0.2397	0.4473
27 May 19	17.282	17.282	0.2395	**0.2343**	0.0000	-0.0052	0.2395
28 May 19	10.755	10.755	0.1490	**0.2052**	0.0562	0.0000	0.2052
29 May 19	8.755	8.755	0.1213	**0.1847**	0.0634	0.0000	0.1847
30 May 19	5.677	5.677	0.0787	**0.1625**	0.0838	0.0000	0.1625
31 May 19	4.947	4.947	0.0686	**0.1560**	0.0874	0.0000	0.1560
1 Jun 19	5.260	5.260	0.0729	**0.1472**	0.0743	0.0000	0.1472
2 Jun 19	2.627	2.627	0.0364	**0.1480**	0.1116	0.0000	0.1480
3 Jun 19	7.096	7.096	0.0983	**0.1558**	0.0575	0.0000	0.1558
4 Jun 19	9.768	9.768	0.1354	**0.0978**	0.0000	-0.0376	0.1354
5 Jun 19	6.867	6.867	0.0952	**0.1418**	0.0466	0.0000	0.1418
6 Jun 19	8.574	8.574	0.1188	**0.1005**	0.0000	-0.0183	0.1188

7 Jun 19	28.099	28.099	0.3894	**0.0976**	0.0000	-0.2918	0.3894
8 Jun 19	31.466	31.466	0.4360	**0.2445**	0.0000	-0.1915	0.4360
9 Jun 19	23.976	23.976	0.3322	**0.3464**	0.0142	0.0000	0.3464
10 Jun 19	19.542	19.542	0.2708	**0.3006**	0.0298	0.0000	0.3006
11 Jun 19	23.155	23.155	0.3209	**0.3663**	0.0454	0.0000	0.3663
12 Jun 19	25.598	25.598	0.3547	**0.2546**	0.0000	-0.1001	0.3547
13 Jun 19	28.047	28.047	0.3886	**0.3126**	0.0000	-0.0760	0.3886
14 Jun 19	26.002	26.002	0.3603	**0.3432**	0.0000	-0.0171	0.3603
15 Jun 19	44.478	44.478	0.6163	**0.3815**	0.0000	-0.2348	0.6163
16 Jun 19	28.173	28.173	0.3904	**0.3829**	0.0000	-0.0075	0.3904
17 Jun 19	32.818	32.818	0.4547	**0.4208**	0.0000	-0.0339	0.4547
18 Jun 19	15.721	15.721	0.2178	**0.3980**	0.1802	0.0000	0.3980
19 Jun 19	21.577	21.577	0.2990	**0.3348**	0.0358	0.0000	0.3348
20 Jun 19	30.306	30.306	0.4199	**0.3042**	0.0000	-0.1157	0.4199
21 Jun 19	50.493	50.493	0.6997	**0.2748**	0.0000	-0.4249	0.6997
22 Jun 19	47.707	47.707	0.6611	**0.5369**	0.0000	-0.1242	0.6611
23 Jun 19	29.793	29.793	0.4128	**0.5545**	0.1417	0.0000	0.5545
24 Jun 19	22.286	22.286	0.3088	**0.7560**	0.4472	0.0000	0.7560
25 Jun 19	17.491	17.491	0.2424	**0.5765**	0.3341	0.0000	0.5765
26 Jun 19	21.784	21.784	0.3019	**0.5157**	0.2138	0.0000	0.5157
27 Jun 19	17.599	17.599	0.2439	**0.2460**	0.0021	0.0000	0.2460
28 Jun 19	16.578	16.578	0.2297	**0.2896**	0.0599	0.0000	0.2896
29 Jun 19	14.821	14.821	0.2054	**0.2436**	0.0382	0.0000	0.2436
30 Jun 19	47.559	47.559	0.6590	**0.2137**	0.0000	-0.4453	0.6590
1 Jul 19	37.439	37.439	0.5188	**0.4098**	0.0000	-0.1090	0.5188
2 Jul 19	69.207	69.207	0.9590	**0.4675**	0.0000	-0.4915	0.9590
3 Jul 19	100.136	100.136	1.3876	**0.7758**	0.0000	-0.6118	1.3876
4 Jul 19	66.477	66.477	0.9212	**0.9493**	0.0281	0.0000	0.9493
5 Jul 19	63.445	63.445	0.8791	**0.5332**	0.0000	-0.3459	0.8791
6 Jul 19	91.563	91.563	1.2688	**0.0000**	0.0000	-1.2688	1.2688
7 Jul 19	71.935	71.935	0.9968	**0.5053**	0.0000	-0.4915	0.9968
8 Jul 19	148.070	129.900	1.8000	**1.2158**	0.0000	-0.5842	1.8000
9 Jul 19	139.579	129.900	1.8000	**1.2367**	0.0000	-0.5633	1.8000
10 Jul 19	106.247	106.247	1.4722	**1.2425**	0.0000	-0.2297	1.4722
11 Jul 19	98.589	98.589	1.3661	**1.2557**	0.0000	-0.1104	1.3661
12 Jul 19	80.908	80.908	1.1211	**1.2532**	0.1321	0.0000	1.2532
13 Jul 19	51.469	51.469	0.7132	**1.2475**	0.5343	0.0000	1.2475

14 Jul 19	28.273	28.273	0.3918	**1.2340**	0.8422	0.0000	1.2340
15 Jul 19	11.335	11.335	0.1571	**1.2187**	1.0616	0.0000	1.2187
16 Jul 19	4.344	4.344	0.0602	**1.1976**	1.1374	0.0000	1.1976
17 Jul 19	32.107	32.107	0.4449	**1.1707**	0.7258	0.0000	1.1707
18 Jul 19	27.647	27.647	0.3831	**0.4750**	0.0919	0.0000	0.4750
19 Jul 19	31.106	31.106	0.4310	**0.3425**	0.0000	-0.0885	0.4310
20 Jul 19	60.144	60.144	0.8334	**0.7124**	0.0000	-0.1210	0.8334
21 Jul 19	44.157	44.157	0.6119	**0.6304**	0.0185	0.0000	0.6304
22 Jul 19	35.863	35.863	0.4969	**0.5287**	0.0318	0.0000	0.5287
23 Jul 19	27.314	27.314	0.3785	**0.5185**	0.1400	0.0000	0.5185
24 Jul 19	22.730	22.730	0.3150	**0.5067**	0.1917	0.0000	0.5067
25 Jul 19	49.265	49.265	0.6827	**0.3728**	0.0000	-0.3099	0.6827
26 Jul 19	84.993	84.993	1.1777	**0.4132**	0.0000	-0.7645	1.1777
27 Jul 19	105.855	105.855	1.4668	**0.5435**	0.0000	-0.9233	1.4668
28 Jul 19	144.449	129.900	1.8000	**0.4035**	0.0000	-1.3965	1.8000
29 Jul 19	103.599	103.599	1.4355	**0.4533**	0.0000	-0.9822	1.4355
30 Jul 19	93.880	93.880	1.3009	**0.4572**	0.0000	-0.8437	1.3009
31 Jul 19	82.805	82.805	1.1474	**0.5828**	0.0000	-0.5646	1.1474
1 Aug 19	147.883	129.900	1.8000	**0.7391**	0.0000	-1.0609	1.8000
2 Aug 19	291.238	129.900	1.8000	**1.3110**	0.0000	-0.4890	1.8000
3 Aug 19	292.478	129.900	1.8000	**1.3609**	0.0000	-0.4391	1.8000
4 Aug 19	337.824	129.900	1.8000	**1.4292**	0.0000	-0.3708	1.8000
5 Aug 19	182.031	129.900	1.8000	**1.4798**	0.0000	-0.3202	1.8000
6 Aug 19	114.959	114.959	1.5930	**1.4915**	0.0000	-0.1015	1.5930
7 Aug 19	78.285	78.285	1.0848	**1.4914**	0.4066	0.0000	1.4914
8 Aug 19	72.982	72.982	1.0113	**1.4795**	0.4682	0.0000	1.4795
9 Aug 19	83.921	83.921	1.1629	**1.4752**	0.3123	0.0000	1.4752
10 Aug 19	99.304	99.304	1.3760	**1.4728**	0.0968	0.0000	1.4728
11 Aug 19	63.827	63.827	0.8844	**1.4662**	0.5818	0.0000	1.4662
12 Aug 19	44.262	44.262	0.6133	**1.4318**	0.8185	0.0000	1.4318
13 Aug 19	64.021	64.021	0.8871	**1.3611**	0.4740	0.0000	1.3611
14 Aug 19	124.121	124.121	1.7199	**1.4337**	0.0000	-0.2862	1.7199
15 Aug 19	90.366	90.366	1.2522	**1.4317**	0.1795	0.0000	1.4317
16 Aug 19	84.404	84.404	1.1696	**1.4280**	0.2584	0.0000	1.4280
17 Aug 19	80.340	80.340	1.1133	**1.0984**	0.0000	-0.0149	1.1133
18 Aug 19	79.874	79.874	1.1068	**0.7282**	0.0000	-0.3786	1.1068
19 Aug 19	73.474	73.474	1.0181	**0.5837**	0.0000	-0.4344	1.0181

20 Aug 19	56.242	56.242	0.7793	**0.5701**	0.0000	-0.2092	0.7793
21 Aug 19	53.712	53.712	0.7443	**0.5716**	0.0000	-0.1727	0.7443
22 Aug 19	47.608	47.608	0.6597	**0.4543**	0.0000	-0.2054	0.6597
23 Aug 19	54.188	54.188	0.7509	**0.4839**	0.0000	-0.2670	0.7509
24 Aug 19	29.417	29.417	0.4076	**0.4659**	0.0583	0.0000	0.4659
25 Aug 19	45.506	45.506	0.6306	**0.4656**	0.0000	-0.1650	0.6306
26 Aug 19	54.500	54.500	0.7552	**0.4478**	0.0000	-0.3074	0.7552
27 Aug 19	3.930	3.930	0.0545	**0.4399**	0.3854	0.0000	0.4399
28 Aug 19	43.779	43.779	0.6066	**0.5148**	0.0000	-0.0918	0.6066
29 Aug 19	30.708	30.708	0.4255	**0.2259**	0.0000	-0.1996	0.4255
30 Aug 19	27.946	27.946	0.3872	**0.2242**	0.0000	-0.1630	0.3872
31 Aug 19	33.116	33.116	0.4589	**0.2150**	0.0000	-0.2439	0.4589
1 Sep 19	28.554	28.554	0.3957	**0.2247**	0.0000	-0.1710	0.3957
2 Sep 19	25.655	25.655	0.3555	**0.2134**	0.0000	-0.1421	0.3555
3 Sep 19	27.579	27.579	0.3822	**0.1881**	0.0000	-0.1941	0.3822
4 Sep 19	24.827	24.827	0.3440	**0.2154**	0.0000	-0.1286	0.3440
5 Sep 19	26.674	26.674	0.3696	**0.2179**	0.0000	-0.1517	0.3696
6 Sep 19	53.772	53.772	0.7451	**0.2181**	0.0000	-0.5270	0.7451
7 Sep 19	38.990	38.990	0.5403	**0.1961**	0.0000	-0.3442	0.5403
8 Sep 19	79.540	79.540	1.1022	**0.2249**	0.0000	-0.8773	1.1022
9 Sep 19	39.560	39.560	0.5482	**0.3445**	0.0000	-0.2037	0.5482
10 Sep 19	71.773	71.773	0.9945	**0.2135**	0.0000	-0.7810	0.9945
11 Sep 19	99.421	99.421	1.3777	**0.2117**	0.0000	-1.1660	1.3777
12 Sep 19	72.708	72.708	1.0075	**0.3708**	0.0000	-0.6367	1.0075
13 Sep 19	136.690	129.900	1.8000	**1.0970**	0.0000	-0.7030	1.8000
14 Sep 19	116.878	116.878	1.6196	**0.7102**	0.0000	-0.9094	1.6196
15 Sep 19	102.062	102.062	1.4143	**0.5049**	0.0000	-0.9094	1.4143
16 Sep 19	97.429	97.429	1.3501	**1.1143**	0.0000	-0.2358	1.3501
17 Sep 19	101.574	101.574	1.4075	**1.6208**	0.2133	0.0000	1.6208
18 Sep 19	100.687	100.687	1.3952	**1.6085**	0.2133	0.0000	1.6085
19 Sep 19	68.272	68.272	0.9460	**1.6084**	0.6624	0.0000	1.6084
20 Sep 19	77.434	77.434	1.0730	**1.2863**	0.2133	0.0000	1.2863
21 Sep 19	59.395	59.395	0.8230	**0.8118**	0.0000	-0.0112	0.8230
22 Sep 19	89.741	89.741	1.2435	**1.2323**	0.0000	-0.0112	1.2435
23 Sep 19	96.344	96.344	1.3350	**1.3238**	0.0000	-0.0112	1.3350
24 Sep 19	148.706	129.900	1.8000	**1.6003**	0.0000	-0.1997	1.8000
25 Sep 19	171.691	129.900	1.8000	**1.5820**	0.0000	-0.2180	1.8000

26 Sep 19	157.970	129.900	1.8000	**1.6164**	0.0000	-0.1836	1.8000
27 Sep 19	150.842	129.900	1.8000	**1.6299**	0.0000	-0.1701	1.8000
28 Sep 19	138.793	129.900	1.8000	**1.5752**	0.0000	-0.2248	1.8000
29 Sep 19	111.199	111.199	1.5409	**1.6419**	0.1010	0.0000	1.6419
30 Sep 19	116.125	116.125	1.6091	**1.5979**	0.0000	-0.0112	1.6091
1 Oct 19	94.463	94.463	1.3089	**1.6354**	0.3265	0.0000	1.6354
2 Oct 19	102.507	102.507	1.4204	**1.6346**	0.2142	0.0000	1.6346
3 Oct 19	85.726	85.726	1.1879	**1.6266**	0.4387	0.0000	1.6266
4 Oct 19	85.314	85.314	1.1822	**1.6209**	0.4387	0.0000	1.6209
5 Oct 19	68.425	68.425	0.9482	**1.6114**	0.6632	0.0000	1.6114
6 Oct 19	63.792	63.792	0.8839	**1.2104**	0.3265	0.0000	1.2104
7 Oct 19	137.950	129.900	1.8000	**1.2276**	0.0000	-0.5724	1.8000
8 Oct 19	153.023	129.900	1.8000	**1.3242**	0.0000	-0.4758	1.8000
9 Oct 19	133.305	129.900	1.8000	**1.6123**	0.0000	-0.1877	1.8000
10 Oct 19	94.405	94.405	1.3081	**1.6346**	0.3265	0.0000	1.6346
11 Oct 19	112.220	112.220	1.5550	**1.4324**	0.0000	-0.1226	1.5550
12 Oct 19	92.726	92.726	1.2849	**1.3868**	0.1019	0.0000	1.3868
13 Oct 19	96.324	96.324	1.3347	**0.9876**	0.0000	-0.3471	1.3347
14 Oct 19	63.652	63.652	0.8820	**0.7594**	0.0000	-0.1226	0.8820
15 Oct 19	72.569	72.569	1.0056	**0.7707**	0.0000	-0.2349	1.0056
16 Oct 19	89.473	89.473	1.2398	**0.7804**	0.0000	-0.4594	1.2398
17 Oct 19	74.590	74.590	1.0336	**0.7987**	0.0000	-0.2349	1.0336
18 Oct 19	50.898	50.898	0.7053	**0.8072**	0.1019	0.0000	0.8072
19 Oct 19	68.634	68.634	0.9510	**0.6039**	0.0000	-0.3471	0.9510
20 Oct 19	39.029	39.029	0.5408	**0.4182**	0.0000	-0.1226	0.5408
21 Oct 19	49.777	49.777	0.6897	**0.3426**	0.0000	-0.3471	0.6897
22 Oct 19	38.759	38.759	0.5371	**0.3022**	0.0000	-0.2349	0.5371
23 Oct 19	30.513	30.513	0.4228	**0.3002**	0.0000	-0.1226	0.4228
24 Oct 19	45.230	45.230	0.6267	**0.2796**	0.0000	-0.3471	0.6267
25 Oct 19	44.350	44.350	0.6145	**0.2674**	0.0000	-0.3471	0.6145
26 Oct 19	185.105	129.900	1.8000	**0.6461**	0.0000	-1.1539	1.8000
27 Oct 19	361.939	129.900	1.8000	**1.2601**	0.0000	-0.5399	1.8000
28 Oct 19	216.067	129.900	1.8000	**1.7808**	0.0000	-0.0192	1.8000
29 Oct 19	156.739	129.900	1.8000	**1.8007**	0.0007	0.0000	1.8007
30 Oct 19	119.628	119.628	1.6577	**1.7676**	0.1099	0.0000	1.7676
31 Oct 19	87.309	87.309	1.2098	**1.8009**	0.5911	0.0000	1.8009
1 Nov 19	85.878	85.878	1.1900	**1.7850**	0.5950	0.0000	1.7850

2 Nov 19	72.014	72.014	0.9979	**1.5929**	0.5950	0.0000	1.5929
3 Nov 19	61.913	61.913	0.8579	**1.3166**	0.4587	0.0000	1.3166
4 Nov 19	65.632	65.632	0.9094	**1.0153**	0.1059	0.0000	1.0153
5 Nov 19	58.738	58.738	0.8139	**1.1443**	0.3304	0.0000	1.1443
6 Nov 19	56.053	56.053	0.7767	**0.7703**	0.0000	-0.0064	0.7767
7 Nov 19	29.041	29.041	0.4024	**0.7328**	0.3304	0.0000	0.7328
8 Nov 19	41.564	41.564	0.5759	**0.6818**	0.1059	0.0000	0.6818
9 Nov 19	20.562	20.562	0.2849	**0.9521**	0.6672	0.0000	0.9521
10 Nov 19	57.182	57.182	0.7924	**1.5718**	0.7794	0.0000	1.5718
11 Nov 19	56.789	56.789	0.7869	**1.4541**	0.6672	0.0000	1.4541
12 Nov 19	65.716	65.716	0.9106	**0.9042**	0.0000	-0.0064	0.9106
13 Nov 19	44.677	44.677	0.6191	**0.5004**	0.0000	-0.1187	0.6191
14 Nov 19	29.947	29.947	0.4150	**0.5096**	0.0946	0.0000	0.5096
15 Nov 19	43.153	43.153	0.5980	**0.4950**	0.0000	-0.1030	0.5980
16 Nov 19	33.149	33.149	0.4593	**0.5158**	0.0565	0.0000	0.5158
17 Nov 19	29.963	29.963	0.4152	**0.5390**	0.1238	0.0000	0.5390
18 Nov 19	27.011	27.011	0.3743	**0.5430**	0.1687	0.0000	0.5430
19 Nov 19	27.394	27.394	0.3796	**0.5079**	0.1283	0.0000	0.5079
20 Nov 19	27.079	27.079	0.3752	**0.5664**	0.1912	0.0000	0.5664
21 Nov 19	22.224	22.224	0.3080	**0.4430**	0.1350	0.0000	0.4430
22 Nov 19	28.852	28.852	0.3998	**0.3844**	0.0000	-0.0154	0.3998
23 Nov 19	18.031	18.031	0.2498	**0.3310**	0.0812	0.0000	0.3310
24 Nov 19	20.588	20.588	0.2853	**0.2901**	0.0048	0.0000	0.2901
25 Nov 19	20.307	20.307	0.2814	**0.3109**	0.0295	0.0000	0.3109
26 Nov 19	17.764	17.764	0.2461	**0.3026**	0.0565	0.0000	0.3026
27 Nov 19	15.989	15.989	0.2216	**0.2825**	0.0609	0.0000	0.2825
28 Nov 19	16.729	16.729	0.2318	**0.2501**	0.0183	0.0000	0.2501
29 Nov 19	15.920	15.920	0.2206	**0.2546**	0.0340	0.0000	0.2546
30 Nov 19	12.649	12.649	0.1753	**0.1262**	0.0000	-0.0491	0.1753
1 Dec 19	11.493	11.493	0.1593	**0.2736**	0.1143	0.0000	0.2736
2 Dec 19	14.693	14.693	0.2036	**0.1720**	0.0000	-0.0316	0.2036
3 Dec 19	15.661	15.661	0.2170	**0.3583**	0.1413	0.0000	0.3583
4 Dec 19	15.469	15.469	0.2144	**0.3534**	0.1390	0.0000	0.3534
5 Dec 19	11.728	11.728	0.1625	**0.4026**	0.2401	0.0000	0.4026
6 Dec 19	14.246	14.246	0.1974	**0.4083**	0.2109	0.0000	0.4083
7 Dec 19	14.005	14.005	0.1941	**0.4072**	0.2131	0.0000	0.4072
8 Dec 19	10.910	10.910	0.1512	**0.3935**	0.2423	0.0000	0.3935

9 Dec 19	7.457	7.457	0.1033	**0.3479**	0.2446	0.0000	0.3479
10 Dec 19	17.393	17.393	0.2410	**0.3823**	0.1413	0.0000	0.3823
11 Dec 19	7.288	7.288	0.1010	**0.4017**	0.3007	0.0000	0.4017
12 Dec 19	8.679	8.679	0.1203	**0.4075**	0.2872	0.0000	0.4075
13 Dec 19	12.618	12.618	0.1748	**0.4037**	0.2289	0.0000	0.4037
14 Dec 19	9.594	9.594	0.1329	**0.4067**	0.2738	0.0000	0.4067
15 Dec 19	11.061	11.061	0.1533	**0.4203**	0.2670	0.0000	0.4203
16 Dec 19	9.722	9.722	0.1347	**0.4242**	0.2895	0.0000	0.4242
17 Dec 19	4.366	4.366	0.0605	**0.4151**	0.3546	0.0000	0.4151
18 Dec 19	6.411	6.411	0.0888	**0.3873**	0.2985	0.0000	0.3873
19 Dec 19	7.625	7.625	0.1057	**0.4131**	0.3074	0.0000	0.4131
20 Dec 19	7.139	7.139	0.0989	**0.3939**	0.2950	0.0000	0.3939
21 Dec 19	7.776	7.776	0.1077	**0.4107**	0.3030	0.0000	0.4107
22 Dec 19	11.276	11.276	0.1563	**0.4390**	0.2827	0.0000	0.4390
23 Dec 19	1.610	1.610	0.0223	**0.4263**	0.4040	0.0000	0.4263
24 Dec 19	2.730	2.730	0.0378	**0.4014**	0.3636	0.0000	0.4014
25 Dec 19	3.922	3.922	0.0543	**0.4022**	0.3479	0.0000	0.4022
26 Dec 19	7.826	7.826	0.1084	**0.4114**	0.3030	0.0000	0.4114
27 Dec 19	5.448	5.448	0.0755	**0.4009**	0.3254	0.0000	0.4009
28 Dec 19	6.257	6.257	0.0867	**0.3919**	0.3052	0.0000	0.3919
29 Dec 19	7.964	7.964	0.1104	**0.4194**	0.3090	0.0000	0.4194
30 Dec 19	7.927	7.927	0.1098	**0.3804**	0.2706	0.0000	0.3804
31 Dec 19	5.337	5.337	0.0740	**0.3753**	0.3013	0.0000	0.3753
1 Jan 20	3.861	3.861	0.0535	**0.2957**	0.2422	0.0000	0.2957
2 Jan 20	6.233	6.233	0.0864	**0.3228**	0.2364	0.0000	0.3228
3 Jan 20	10.620	10.620	0.1472	**0.3220**	0.1748	0.0000	0.3220
4 Jan 20	5.645	5.645	0.0782	**0.3262**	0.2480	0.0000	0.3262
5 Jan 20	34.292	34.292	0.4752	**0.3267**	0.0000	-0.1485	0.4752
6 Jan 20	0.000	0.000	0.0000	**0.3233**	0.3233	0.0000	0.3233
7 Jan 20	9.874	9.874	0.1368	**0.2751**	0.1383	0.0000	0.2751
8 Jan 20	4.422	4.422	0.0613	**0.3054**	0.2441	0.0000	0.3054
9 Jan 20	6.451	6.451	0.0894	**0.2854**	0.1960	0.0000	0.2854
10 Jan 20	6.497	6.497	0.0900	**0.2668**	0.1768	0.0000	0.2668
11 Jan 20	2.175	2.175	0.0301	**0.2685**	0.2384	0.0000	0.2685
12 Jan 20	5.979	5.979	0.0829	**0.2654**	0.1825	0.0000	0.2654
13 Jan 20	7.250	7.250	0.1005	**0.2753**	0.1748	0.0000	0.2753
14 Jan 20	0.000	0.000	0.0000	**0.2101**	0.2101	0.0000	0.2101

15 Jan 20	5.784	5.784	0.0801	**0.2088**	0.1287	0.0000	0.2088
16 Jan 20	1.808	1.808	0.0250	**0.1768**	0.1518	0.0000	0.1768
17 Jan 20	19.447	19.447	0.2695	**0.1922**	0.0000	-0.0773	0.2695
18 Jan 20	0.000	0.000	0.0000	**0.1936**	0.1936	0.0000	0.1936
19 Jan 20	5.802	5.802	0.0804	**0.1340**	0.0536	0.0000	0.1340
20 Jan 20	0.000	0.000	0.0000	**0.1240**	0.1240	0.0000	0.1240
21 Jan 20	30.037	30.037	0.4162	**0.1234**	0.0000	-0.2928	0.4162
22 Jan 20	7.386	7.386	0.1023	**0.1290**	0.0267	0.0000	0.1290
23 Jan 20	0.000	0.000	0.0000	**0.2454**	0.2454	0.0000	0.2454
24 Jan 20	15.521	15.521	0.2151	**0.2629**	0.0478	0.0000	0.2629
25 Jan 20	0.000	0.000	0.0000	**0.2458**	0.2458	0.0000	0.2458
26 Jan 20	2.448	2.448	0.0339	**0.2588**	0.2249	0.0000	0.2588
27 Jan 20	4.937	4.937	0.0684	**0.2548**	0.1864	0.0000	0.2548
28 Jan 20	12.893	12.893	0.1787	**0.2592**	0.0805	0.0000	0.2592
29 Jan 20	0.000	0.000	0.0000	**0.2547**	0.2547	0.0000	0.2547
30 Jan 20	5.317	5.317	0.0737	**0.2620**	0.1883	0.0000	0.2620
31 Jan 20	0.000	0.000	0.0000	**0.2554**	0.2554	0.0000	0.2554
1 Feb 20	0.000	0.000	0.0000	**0.2589**	0.2589	0.0000	0.2589
2 Feb 20	5.430	5.430	0.0752	**0.2614**	0.1862	0.0000	0.2614
3 Feb 20	5.546	5.546	0.0768	**0.2630**	0.1862	0.0000	0.2630
4 Feb 20	0.000	0.000	0.0000	**0.3079**	0.3079	0.0000	0.3079
5 Feb 20	0.000	0.000	0.0000	**0.2562**	0.2562	0.0000	0.2562
6 Feb 20	0.000	0.000	0.0000	**0.2262**	0.2262	0.0000	0.2262
7 Feb 20	4.499	4.499	0.0623	**0.2485**	0.1862	0.0000	0.2485
8 Feb 20	5.279	5.279	0.0731	**0.2593**	0.1862	0.0000	0.2593
9 Feb 20	3.157	3.157	0.0437	**0.2299**	0.1862	0.0000	0.2299
10 Feb 20	3.366	3.366	0.0466	**0.2328**	0.1862	0.0000	0.2328
11 Feb 20	3.489	3.489	0.0483	**0.2345**	0.1862	0.0000	0.2345
12 Feb 20	0.000	0.000	0.0000	**0.2446**	0.2446	0.0000	0.2446
13 Feb 20	2.616	2.616	0.0362	**0.2224**	0.1862	0.0000	0.2224
14 Feb 20	1.006	1.006	0.0139	**0.2001**	0.1862	0.0000	0.2001
15 Feb 20	1.129	1.129	0.0156	**0.2018**	0.1862	0.0000	0.2018
16 Feb 20	0.000	0.000	0.0000	**0.2764**	0.2764	0.0000	0.2764
17 Feb 20	0.000	0.000	0.0000	**0.2261**	0.2261	0.0000	0.2261
18 Feb 20	0.000	0.000	0.0000	**0.2096**	0.2096	0.0000	0.2096
19 Feb 20	0.000	0.000	0.0000	**0.1993**	0.1993	0.0000	0.1993
20 Feb 20	0.000	0.000	0.0000	**0.2117**	0.2117	0.0000	0.2117

21 Feb 20	0.000	0.000	0.0000	**0.2078**	0.2078	0.0000	0.2078
22 Feb 20	0.000	0.000	0.0000	**0.2138**	0.2138	0.0000	0.2138
23 Feb 20	0.000	0.000	0.0000	**0.1800**	0.1800	0.0000	0.1800
24 Feb 20	0.000	0.000	0.0000	**0.1854**	0.1854	0.0000	0.1854
25 Feb 20	0.000	0.000	0.0000	**0.1557**	0.1557	0.0000	0.1557
26 Feb 20	0.000	0.000	0.0000	**0.1784**	0.1784	0.0000	0.1784
27 Feb 20	0.458	0.458	0.0063	**0.1925**	0.1862	0.0000	0.1925
28 Feb 20	1.497	1.497	0.0207	**0.2069**	0.1862	0.0000	0.2069
29 Feb 20	0.000	0.000	0.0000	**0.2085**	0.2085	0.0000	0.2085
1 Mar 20	0.000	0.000	0.0000	**0.1915**	0.1915	0.0000	0.1915
2 Mar 20	0.000	0.000	0.0000	**0.1896**	0.1896	0.0000	0.1896
3 Mar 20	0.000	0.000	0.0000	**0.1901**	0.1901	0.0000	0.1901
4 Mar 20	0.000	0.000	0.0000	**0.1661**	0.1661	0.0000	0.1661
5 Mar 20	0.000	0.000	0.0000	**0.1600**	0.1600	0.0000	0.1600
6 Mar 20	0.000	0.000	0.0000	**0.1616**	0.1616	0.0000	0.1616
7 Mar 20	0.000	0.000	0.0000	**0.1617**	0.1617	0.0000	0.1617
8 Mar 20	0.000	0.000	0.0000	**0.1496**	0.1496	0.0000	0.1496
9 Mar 20	0.000	0.000	0.0000	**0.1457**	0.1457	0.0000	0.1457
10 Mar 20	0.000	0.000	0.0000	**0.1479**	0.1479	0.0000	0.1479
11 Mar 20	0.000	0.000	0.0000	**0.1475**	0.1475	0.0000	0.1475
12 Mar 20	0.000	0.000	0.0000	**0.1473**	0.1473	0.0000	0.1473
13 Mar 20	0.000	0.000	0.0000	**0.1447**	0.1447	0.0000	0.1447
14 Mar 20	0.000	0.000	0.0000	**0.1452**	0.1452	0.0000	0.1452
15 Mar 20	0.000	0.000	0.0000	**0.1619**	0.1619	0.0000	0.1619

16 Mar 20	0.000	0.000	0.0000	**0.1577**	0.1577	0.0000	0.1577
17 Mar 20	0.000	0.000	0.0000	**0.1593**	0.1593	0.0000	0.1593
18 Mar 20	0.000	0.000	0.0000	**0.1592**	0.1592	0.0000	0.1592
19 Mar 20	0.000	0.000	0.0000	**0.1596**	0.1596	0.0000	0.1596
20 Mar 20	0.000	0.000	0.0000	**0.1561**	0.1561	0.0000	0.1561
21 Mar 20	0.000	0.000	0.0000	**0.1558**	0.1558	0.0000	0.1558
22 Mar 20	0.000	0.000	0.0000	**0.1346**	0.1346	0.0000	0.1346
23 Mar 20	0.000	0.000	0.0000	**0.1604**	0.1604	0.0000	0.1604
24 Mar 20	0.000	0.000	0.0000	**0.1619**	0.1619	0.0000	0.1619
25 Mar 20	0.000	0.000	0.0000	**0.1515**	0.1515	0.0000	0.1515
26 Mar 20	2.393	2.393	0.0332	**0.1431**	0.1099	0.0000	0.1431
27 Mar 20	2.133	2.133	0.0296	**0.1395**	0.1099	0.0000	0.1395
28 Mar 20	0.091	0.091	0.0013	**0.1112**	0.1099	0.0000	0.1112
29 Mar 20	0.000	0.000	0.0000	**0.1096**	0.1096	0.0000	0.1096
30 Mar 20	0.000	0.000	0.0000	**0.1060**	0.1060	0.0000	0.1060
31 Mar 20	0.000	0.000	0.0000	**0.0808**	0.0808	0.0000	0.0808
	37.0248	33.7339	171.0848	**180.9225**	47.3366	-37.4989	218.4214

DHPS	2020-21						
Date	Calculated Avg Inflow	Usefull Inflow	Possible Gen as per Inflow (MU)	**Actual Gen (MU)**	Excess Gen (MU)	Short Gen (MU)	Max of possible Gen and Actual Gen
1 Apr 20	1.723	1.723	0.0239	**0.0776**	0.0537	0.0000	0.0776
2 Apr 20	0.265	0.265	0.0037	**0.0574**	0.0537	0.0000	0.0574
3 Apr 20	1.059	1.059	0.0147	**0.0684**	0.0537	0.0000	0.0684
4 Apr 20	0.525	0.525	0.0073	**0.0610**	0.0537	0.0000	0.0610
5 Apr 20	0.388	0.388	0.0054	**0.0591**	0.0537	0.0000	0.0591
6 Apr 20	0.034	0.034	0.0005	**0.0542**	0.0537	0.0000	0.0542
7 Apr 20	0.000	0.000	0.0000	**0.0526**	0.0526	0.0000	0.0526
8 Apr 20	0.000	0.000	0.0000	**0.0526**	0.0526	0.0000	0.0526
9 Apr 20	0.000	0.000	0.0000	**0.0446**	0.0446	0.0000	0.0446
10 Apr 20	0.000	0.000	0.0000	**0.0504**	0.0504	0.0000	0.0504
11 Apr 20	0.000	0.000	0.0000	**0.0514**	0.0514	0.0000	0.0514
12 Apr 20	4.230	4.230	0.0586	**0.0522**	0.0000	-0.0064	0.0586
13 Apr 20	4.187	4.187	0.0580	**0.0516**	0.0000	-0.0064	0.0580
14 Apr 20	0.128	0.128	0.0018	**0.0555**	0.0537	0.0000	0.0555
15 Apr 20	3.970	3.970	0.0550	**0.0486**	0.0000	-0.0064	0.0550
16 Apr 20	3.934	3.934	0.0545	**0.0481**	0.0000	-0.0064	0.0545
17 Apr 20	0.070	0.070	0.0010	**0.0547**	0.0537	0.0000	0.0547
18 Apr 20	7.983	7.983	0.1106	**0.1042**	0.0000	-0.0064	0.1106
19 Apr 20	3.736	3.736	0.0518	**0.1055**	0.0537	0.0000	0.1055
20 Apr 20	4.545	4.545	0.0630	**0.1167**	0.0537	0.0000	0.1167
21 Apr 20	7.730	7.730	0.1071	**0.1007**	0.0000	-0.0064	0.1071
22 Apr 20	8.733	8.733	0.1210	**0.1146**	0.0000	-0.0064	0.1210
23 Apr 20	7.781	7.781	0.1078	**0.1014**	0.0000	-0.0064	0.1078
24 Apr 20	10.559	10.559	0.1463	**0.1399**	0.0000	-0.0064	0.1463
25 Apr 20	4.108	4.108	0.0569	**0.1708**	0.1139	0.0000	0.1708
26 Apr 20	5.338	5.338	0.0740	**0.1277**	0.0537	0.0000	0.1277
27 Apr 20	8.798	8.798	0.1219	**0.1155**	0.0000	-0.0064	0.1219
28 Apr 20	12.763	12.763	0.1769	**0.1103**	0.0000	-0.0666	0.1769
29 Apr 20	3.048	3.048	0.0422	**0.1561**	0.1139	0.0000	0.1561
30 Apr 20	8.488	8.488	0.1176	**0.1112**	0.0000	-0.0064	0.1176

1 May 20	8.319	8.319	0.1153	**0.1101**	0.0000	-0.0052	0.1153
2 May 20	4.260	4.260	0.0590	**0.1140**	0.0550	0.0000	0.1140
3 May 20	5.422	5.422	0.0751	**0.1301**	0.0550	0.0000	0.1301
4 May 20	8.723	8.723	0.1209	**0.1157**	0.0000	-0.0052	0.1209
5 May 20	5.299	5.299	0.0734	**0.1284**	0.0550	0.0000	0.1284
6 May 20	8.507	8.507	0.1179	**0.1127**	0.0000	-0.0052	0.1179
7 May 20	8.817	8.817	0.1222	**0.1170**	0.0000	-0.0052	0.1222
8 May 20	3.762	3.762	0.0521	**0.1071**	0.0550	0.0000	0.1071
9 May 20	8.016	8.016	0.1111	**0.1059**	0.0000	-0.0052	0.1111
10 May 20	0.064	0.064	0.0009	**0.1160**	0.1151	0.0000	0.1160
11 May 20	0.031	0.031	0.0004	**0.0554**	0.0550	0.0000	0.0554
12 May 20	4.148	4.148	0.0575	**0.0523**	0.0000	-0.0052	0.0575
13 May 20	4.140	4.140	0.0574	**0.0522**	0.0000	-0.0052	0.0574
14 May 20	4.162	4.162	0.0577	**0.0525**	0.0000	-0.0052	0.0577
15 May 20	4.003	4.003	0.0555	**0.0503**	0.0000	-0.0052	0.0555
16 May 20	8.452	8.452	0.1171	**0.0518**	0.0000	-0.0653	0.1171
17 May 20	12.821	12.821	0.1777	**0.0522**	0.0000	-0.1255	0.1777
18 May 20	3.127	3.127	0.0433	**0.0983**	0.0550	0.0000	0.0983
19 May 20	3.517	3.517	0.0487	**0.1037**	0.0550	0.0000	0.1037
20 May 20	7.929	7.929	0.1099	**0.1047**	0.0000	-0.0052	0.1099
21 May 20	0.558	0.558	0.0077	**0.0627**	0.0550	0.0000	0.0627
22 May 20	12.573	12.573	0.1742	**0.1089**	0.0000	-0.0653	0.1742
23 May 20	8.261	8.261	0.1145	**0.1093**	0.0000	-0.0052	0.1145
24 May 20	13.323	13.323	0.1846	**0.1193**	0.0000	-0.0653	0.1846
25 May 20	4.809	4.809	0.0666	**0.1216**	0.0550	0.0000	0.1216
26 May 20	17.692	17.692	0.2452	**0.1197**	0.0000	-0.1255	0.2452
27 May 20	54.341	54.341	0.7530	**0.1464**	0.0000	-0.6066	0.7530
28 May 20	28.008	28.008	0.3881	**0.2025**	0.0000	-0.1856	0.3881
29 May 20	26.251	26.251	0.3638	**0.2383**	0.0000	-0.1255	0.3638
30 May 20	62.236	62.236	0.8624	**0.2558**	0.0000	-0.6066	0.8624
31 May 20	21.133	21.133	0.2928	**0.3478**	0.0550	0.0000	0.3478
1 Jun 20	23.522	23.522	0.3259	**0.7996**	0.4737	0.0000	0.7996
2 Jun 20	12.662	12.662	0.1755	**0.7694**	0.5939	0.0000	0.7694
3 Jun 20	24.961	24.961	0.3459	**0.3384**	0.0000	-0.0075	0.3459
4 Jun 20	9.079	9.079	0.1258	**0.2386**	0.1128	0.0000	0.2386
5 Jun 20	12.238	12.238	0.1696	**0.1621**	0.0000	-0.0075	0.1696
6 Jun 20	10.294	10.294	0.1426	**0.1953**	0.0527	0.0000	0.1953

7 Jun 20	13.898	13.898	0.1926	**0.1851**	0.0000	-0.0075	0.1926
8 Jun 20	9.948	9.948	0.1378	**0.1905**	0.0527	0.0000	0.1905
9 Jun 20	5.766	5.766	0.0799	**0.1927**	0.1128	0.0000	0.1927
10 Jun 20	22.081	22.081	0.3060	**0.1782**	0.0000	-0.1278	0.3060
11 Jun 20	51.045	51.045	0.7073	**0.2187**	0.0000	-0.4886	0.7073
12 Jun 20	73.453	73.453	1.0178	**0.5292**	0.0000	-0.4886	1.0178
13 Jun 20	83.067	83.067	1.1510	**0.7827**	0.0000	-0.3683	1.1510
14 Jun 20	62.708	62.708	0.8689	**0.8013**	0.0000	-0.0676	0.8689
15 Jun 20	51.653	51.653	0.7157	**0.7684**	0.0527	0.0000	0.7684
16 Jun 20	62.664	62.664	0.8683	**0.8007**	0.0000	-0.0676	0.8683
17 Jun 20	130.684	129.900	1.8000	**0.7569**	0.0000	-1.0431	1.8000
18 Jun 20	198.007	129.900	1.8000	**0.8117**	0.0000	-0.9883	1.8000
19 Jun 20	172.942	129.900	1.8000	**0.8493**	0.0000	-0.9507	1.8000
20 Jun 20	292.456	129.900	1.8000	**0.8695**	0.0000	-0.9305	1.8000
21 Jun 20	261.125	129.900	1.8000	**0.9165**	0.0000	-0.8835	1.8000
22 Jun 20	137.886	129.900	1.8000	**0.9409**	0.0000	-0.8591	1.8000
23 Jun 20	126.626	126.626	1.7546	**0.8811**	0.0000	-0.8735	1.7546
24 Jun 20	196.884	129.900	1.8000	**0.9886**	0.0000	-0.8114	1.8000
25 Jun 20	86.365	86.365	1.1967	**0.9968**	0.0000	-0.1999	1.1967
26 Jun 20	72.288	72.288	1.0017	**0.9942**	0.0000	-0.0075	1.0017
27 Jun 20	64.586	64.586	0.8950	**0.9837**	0.0887	0.0000	0.9837
28 Jun 20	56.740	56.740	0.7862	**0.9712**	0.1850	0.0000	0.9712
29 Jun 20	64.384	64.384	0.8922	**0.9809**	0.0887	0.0000	0.9809
30 Jun 20	58.385	58.385	0.8090	**0.9940**	0.1850	0.0000	0.9940
1 Jul 20	58.108	58.108	0.8052	**0.9873**	0.1821	0.0000	0.9873
2 Jul 20	80.351	80.351	1.1134	**0.9106**	0.0000	-0.2028	1.1134
3 Jul 20	70.191	70.191	0.9726	**0.0000**	0.0000	-0.9726	0.9726
4 Jul 20	55.223	55.223	0.7652	**0.1775**	0.0000	-0.5877	0.7652
5 Jul 20	143.231	129.900	1.8000	**1.0121**	0.0000	-0.7879	1.8000
6 Jul 20	247.340	129.900	1.8000	**1.0113**	0.0000	-0.7887	1.8000
7 Jul 20	238.469	129.900	1.8000	**1.0648**	0.0000	-0.7352	1.8000
8 Jul 20	193.130	129.900	1.8000	**1.0941**	0.0000	-0.7059	1.8000
9 Jul 20	167.138	129.900	1.8000	**0.8462**	0.0000	-0.9538	1.8000
10 Jul 20	114.334	114.334	1.5843	**1.1249**	0.0000	-0.4594	1.5843
11 Jul 20	144.379	129.900	1.8000	**0.9799**	0.0000	-0.8201	1.8000
12 Jul 20	115.763	115.763	1.6041	**1.1447**	0.0000	-0.4594	1.6041
13 Jul 20	106.160	106.160	1.4710	**1.1239**	0.0000	-0.3471	1.4710

14 Jul 20	165.067	129.900	1.8000	**1.1543**	0.0000	-0.6457	1.8000
15 Jul 20	181.971	129.900	1.8000	**1.1640**	0.0000	-0.6360	1.8000
16 Jul 20	109.805	109.805	1.5215	**1.1774**	0.0000	-0.3441	1.5215
17 Jul 20	86.040	86.040	1.1922	**1.1819**	0.0000	-0.0103	1.1922
18 Jul 20	77.809	77.809	1.0782	**1.1801**	0.1019	0.0000	1.1801
19 Jul 20	63.746	63.746	0.8833	**1.0975**	0.2142	0.0000	1.0975
20 Jul 20	69.692	69.692	0.9657	**1.1799**	0.2142	0.0000	1.1799
21 Jul 20	61.071	61.071	0.8462	**1.1727**	0.3265	0.0000	1.1727
22 Jul 20	60.934	60.934	0.8443	**1.1708**	0.3265	0.0000	1.1708
23 Jul 20	68.855	68.855	0.9541	**1.1683**	0.2142	0.0000	1.1683
24 Jul 20	83.825	83.825	1.1615	**1.1512**	0.0000	-0.0103	1.1615
25 Jul 20	75.398	75.398	1.0448	**1.1467**	0.1019	0.0000	1.1467
26 Jul 20	76.632	76.632	1.0619	**1.1638**	0.1019	0.0000	1.1638
27 Jul 20	52.031	52.031	0.7210	**1.1597**	0.4387	0.0000	1.1597
28 Jul 20	84.287	84.287	1.1679	**1.1576**	0.0000	-0.0103	1.1679
29 Jul 20	100.527	100.527	1.3930	**1.1581**	0.0000	-0.2349	1.3930
30 Jul 20	99.213	99.213	1.3748	**1.1399**	0.0000	-0.2349	1.3748
31 Jul 20	100.880	100.880	1.3979	**1.1630**	0.0000	-0.2349	1.3979
1 Aug 20	84.560	84.560	1.1717	**1.1588**	0.0000	-0.0129	1.1717
2 Aug 20	76.898	76.898	1.0656	**1.1649**	0.0993	0.0000	1.1649
3 Aug 20	60.644	60.644	0.8403	**1.1642**	0.3239	0.0000	1.1642
4 Aug 20	83.918	83.918	1.1628	**1.1499**	0.0000	-0.0129	1.1628
5 Aug 20	13.337	13.337	0.1848	**1.0700**	0.8852	0.0000	1.0700
6 Aug 20	106.621	106.621	1.4774	**1.1277**	0.0000	-0.3497	1.4774
7 Aug 20	149.368	129.900	1.8000	**1.1587**	0.0000	-0.6413	1.8000
8 Aug 20	141.850	129.900	1.8000	**1.1668**	0.0000	-0.6332	1.8000
9 Aug 20	199.451	129.900	1.8000	**1.1791**	0.0000	-0.6209	1.8000
10 Aug 20	147.113	129.900	1.8000	**1.1951**	0.0000	-0.6049	1.8000
11 Aug 20	115.667	115.667	1.6028	**1.1987**	0.0000	-0.4041	1.6028
12 Aug 20	141.737	129.900	1.8000	**1.2039**	0.0000	-0.5961	1.8000
13 Aug 20	152.847	129.900	1.8000	**1.2071**	0.0000	-0.5929	1.8000
14 Aug 20	146.667	129.900	1.8000	**1.2008**	0.0000	-0.5992	1.8000
15 Aug 20	111.771	111.771	1.5488	**1.1984**	0.0000	-0.3504	1.5488
16 Aug 20	111.439	111.439	1.5442	**1.1938**	0.0000	-0.3504	1.5442
17 Aug 20	101.919	101.919	1.4123	**1.1863**	0.0000	-0.2260	1.4123
18 Aug 20	102.670	102.670	1.4227	**1.2009**	0.0000	-0.2218	1.4227
19 Aug 20	140.770	129.900	1.8000	**1.2066**	0.0000	-0.5934	1.8000

20 Aug 20	133.419	129.900	1.8000	**1.2187**	0.0000	-0.5813	1.8000
21 Aug 20	135.124	129.900	1.8000	**1.2183**	0.0000	-0.5817	1.8000
22 Aug 20	125.785	125.785	1.7430	**1.2179**	0.0000	-0.5251	1.7430
23 Aug 20	144.136	129.900	1.8000	**1.2229**	0.0000	-0.5771	1.8000
24 Aug 20	144.700	129.900	1.8000	**1.2221**	0.0000	-0.5779	1.8000
25 Aug 20	126.732	126.732	1.7561	**1.2223**	0.0000	-0.5338	1.7561
26 Aug 20	125.142	125.142	1.7341	**1.2090**	0.0000	-0.5251	1.7341
27 Aug 20	93.555	93.555	1.2964	**1.2167**	0.0000	-0.0797	1.2964
28 Aug 20	71.695	71.695	0.9935	**1.2211**	0.2276	0.0000	1.2211
29 Aug 20	63.045	63.045	0.8736	**1.2135**	0.3399	0.0000	1.2135
30 Aug 20	56.014	56.014	0.7762	**1.2123**	0.4361	0.0000	1.2123
31 Aug 20	63.473	63.473	0.8795	**1.2034**	0.3239	0.0000	1.2034
1 Sep 20	63.206	63.206	0.8758	**1.2014**	0.3256	0.0000	1.2014
2 Sep 20	63.047	63.047	0.8736	**1.1992**	0.3256	0.0000	1.1992
3 Sep 20	46.461	46.461	0.6438	**1.1939**	0.5501	0.0000	1.1939
4 Sep 20	54.252	54.252	0.7518	**1.1896**	0.4378	0.0000	1.1896
5 Sep 20	37.435	37.435	0.5187	**1.1811**	0.6624	0.0000	1.1811
6 Sep 20	44.909	44.909	0.6223	**1.1724**	0.5501	0.0000	1.1724
7 Sep 20	37.904	37.904	0.5252	**1.1876**	0.6624	0.0000	1.1876
8 Sep 20	39.136	39.136	0.5423	**1.0924**	0.5501	0.0000	1.0924
9 Sep 20	42.737	42.737	0.5922	**1.1422**	0.5500	0.0000	1.1422
10 Sep 20	66.090	66.090	0.9158	**1.1291**	0.2133	0.0000	1.1291
11 Sep 20	58.955	58.955	0.8169	**1.1425**	0.3256	0.0000	1.1425
12 Sep 20	42.340	42.340	0.5867	**1.1368**	0.5501	0.0000	1.1368
13 Sep 20	58.392	58.392	0.8091	**1.1347**	0.3256	0.0000	1.1347
14 Sep 20	49.670	49.670	0.6883	**1.1261**	0.4378	0.0000	1.1261
15 Sep 20	49.453	49.453	0.6853	**1.1231**	0.4378	0.0000	1.1231
16 Sep 20	48.970	48.970	0.6786	**1.1164**	0.4378	0.0000	1.1164
17 Sep 20	40.608	40.608	0.5627	**1.1128**	0.5501	0.0000	1.1128
18 Sep 20	48.089	48.089	0.6664	**1.1042**	0.4378	0.0000	1.1042
19 Sep 20	55.893	55.893	0.7745	**0.9878**	0.2133	0.0000	0.9878
20 Sep 20	47.882	47.882	0.6635	**0.8768**	0.2133	0.0000	0.8768
21 Sep 20	45.797	45.797	0.6346	**0.8479**	0.2133	0.0000	0.8479
22 Sep 20	55.544	55.544	0.7697	**0.8707**	0.1010	0.0000	0.8707
23 Sep 20	72.491	72.491	1.0045	**0.8810**	0.0000	-0.1235	1.0045
24 Sep 20	78.192	78.192	1.0835	**0.9600**	0.0000	-0.1235	1.0835
25 Sep 20	69.544	69.544	0.9637	**1.0647**	0.1010	0.0000	1.0647

26 Sep 20	63.362	63.362	0.8780	**1.0913**	0.2133	0.0000	1.0913
27 Sep 20	59.609	59.609	0.8260	**1.0393**	0.2133	0.0000	1.0393
28 Sep 20	64.363	64.363	0.8919	**0.9929**	0.1010	0.0000	0.9929
29 Sep 20	58.351	58.351	0.8086	**0.9096**	0.1010	0.0000	0.9096
30 Sep 20	47.009	47.009	0.6514	**0.8647**	0.2133	0.0000	0.8647
1 Oct 20	82.259	82.259	1.1398	**0.7927**	0.0000	-0.3471	1.1398
2 Oct 20	83.079	83.079	1.1512	**0.6918**	0.0000	-0.4594	1.1512
3 Oct 20	96.148	96.148	1.3323	**0.8729**	0.0000	-0.4594	1.3323
4 Oct 20	76.062	76.062	1.0540	**0.8191**	0.0000	-0.2349	1.0540
5 Oct 20	92.295	92.295	1.2789	**0.8195**	0.0000	-0.4594	1.2789
6 Oct 20	93.659	93.659	1.2978	**0.8384**	0.0000	-0.4594	1.2978
7 Oct 20	88.104	88.104	1.2208	**0.8737**	0.0000	-0.3471	1.2208
8 Oct 20	109.302	109.302	1.5146	**0.9429**	0.0000	-0.5717	1.5146
9 Oct 20	104.224	104.224	1.4442	**0.9848**	0.0000	-0.4594	1.4442
10 Oct 20	131.142	129.900	1.8000	**1.0210**	0.0000	-0.7790	1.8000
11 Oct 20	98.831	98.831	1.3695	**1.1346**	0.0000	-0.2349	1.3695
12 Oct 20	83.118	83.118	1.1517	**1.1414**	0.0000	-0.0103	1.1517
13 Oct 20	99.177	99.177	1.3743	**1.1394**	0.0000	-0.2349	1.3743
14 Oct 20	83.240	83.240	1.1534	**1.1431**	0.0000	-0.0103	1.1534
15 Oct 20	115.265	115.265	1.5972	**1.1378**	0.0000	-0.4594	1.5972
16 Oct 20	49.864	49.864	0.6909	**1.0174**	0.3265	0.0000	1.0174
17 Oct 20	80.604	80.604	1.1169	**0.9943**	0.0000	-0.1226	1.1169
18 Oct 20	83.806	83.806	1.1613	**0.9264**	0.0000	-0.2349	1.1613
19 Oct 20	82.009	82.009	1.1364	**0.9015**	0.0000	-0.2349	1.1364
20 Oct 20	87.310	87.310	1.2098	**0.8627**	0.0000	-0.3471	1.2098
21 Oct 20	79.634	79.634	1.1035	**0.8686**	0.0000	-0.2349	1.1035
22 Oct 20	103.327	103.327	1.4318	**0.8601**	0.0000	-0.5717	1.4318
23 Oct 20	164.167	129.900	1.8000	**0.9173**	0.0000	-0.8827	1.8000
24 Oct 20	183.275	129.900	1.8000	**1.0698**	0.0000	-0.7302	1.8000
25 Oct 20	143.973	129.900	1.8000	**1.1988**	0.0000	-0.6012	1.8000
26 Oct 20	120.548	120.548	1.6704	**1.2110**	0.0000	-0.4594	1.6704
27 Oct 20	96.286	96.286	1.3342	**1.2116**	0.0000	-0.1226	1.3342
28 Oct 20	80.342	80.342	1.1133	**1.2152**	0.1019	0.0000	1.2152
29 Oct 20	73.688	73.688	1.0211	**1.1230**	0.1019	0.0000	1.1230
30 Oct 20	64.239	64.239	0.8901	**0.8798**	0.0000	-0.0103	0.8901
31 Oct 20	69.425	69.425	0.9620	**0.8394**	0.0000	-0.1226	0.9620
1 Nov 20	95.037	95.037	1.3169	**0.8454**	0.0000	-0.4715	1.3169

2 Nov 20	118.940	118.940	1.6481	**0.9200**	0.0000	-0.7281	1.6481
3 Nov 20	101.032	101.032	1.4000	**1.1530**	0.0000	-0.2470	1.4000
4 Nov 20	71.535	71.535	0.9912	**1.2254**	0.2342	0.0000	1.2254
5 Nov 20	80.482	80.482	1.1152	**1.2291**	0.1139	0.0000	1.2291
6 Nov 20	70.949	70.949	0.9831	**1.0970**	0.1139	0.0000	1.0970
7 Nov 20	54.546	54.546	0.7558	**0.8697**	0.1139	0.0000	0.8697
8 Nov 20	55.245	55.245	0.7655	**0.7591**	0.0000	-0.0064	0.7655
9 Nov 20	43.705	43.705	0.6056	**0.5992**	0.0000	-0.0064	0.6056
10 Nov 20	41.194	41.194	0.5708	**0.5644**	0.0000	-0.0064	0.5708
11 Nov 20	39.195	39.195	0.5431	**0.5367**	0.0000	-0.0064	0.5431
12 Nov 20	40.991	40.991	0.5680	**0.4413**	0.0000	-0.1267	0.5680
13 Nov 20	22.631	22.631	0.3136	**0.1869**	0.0000	-0.1267	0.3136
14 Nov 20	31.312	31.312	0.4339	**0.1869**	0.0000	-0.2470	0.4339
15 Nov 20	22.263	22.263	0.3085	**0.1818**	0.0000	-0.1267	0.3085
16 Nov 20	24.558	24.558	0.3403	**0.2136**	0.0000	-0.1267	0.3403
17 Nov 20	24.580	24.580	0.3406	**0.2139**	0.0000	-0.1267	0.3406
18 Nov 20	18.238	18.238	0.2527	**0.2463**	0.0000	-0.0064	0.2527
19 Nov 20	27.135	27.135	0.3760	**0.2493**	0.0000	-0.1267	0.3760
20 Nov 20	17.119	17.119	0.2372	**0.2308**	0.0000	-0.0064	0.2372
21 Nov 20	17.141	17.141	0.2375	**0.2311**	0.0000	-0.0064	0.2375
22 Nov 20	22.321	22.321	0.3093	**0.1826**	0.0000	-0.1267	0.3093
23 Nov 20	14.463	14.463	0.2004	**0.1940**	0.0000	-0.0064	0.2004
24 Nov 20	23.512	23.512	0.3258	**0.1991**	0.0000	-0.1267	0.3258
25 Nov 20	14.673	14.673	0.2033	**0.1969**	0.0000	-0.0064	0.2033
26 Nov 20	14.052	14.052	0.1947	**0.1883**	0.0000	-0.0064	0.1947
27 Nov 20	13.980	13.980	0.1937	**0.1873**	0.0000	-0.0064	0.1937
28 Nov 20	13.980	13.980	0.1937	**0.1873**	0.0000	-0.0064	0.1937
29 Nov 20	22.718	22.718	0.3148	**0.1881**	0.0000	-0.1267	0.3148
30 Nov 20	13.915	13.915	0.1928	**0.1864**	0.0000	-0.0064	0.1928
1 Dec 20	13.810	13.810	0.1914	**0.1867**	0.0000	-0.0047	0.1914
2 Dec 20	13.752	13.752	0.1906	**0.1859**	0.0000	-0.0047	0.1906
3 Dec 20	13.788	13.788	0.1911	**0.1864**	0.0000	-0.0047	0.1911
4 Dec 20	5.050	5.050	0.0700	**0.1856**	0.1156	0.0000	0.1856
5 Dec 20	14.221	14.221	0.1971	**0.1924**	0.0000	-0.0047	0.1971
6 Dec 20	15.130	15.130	0.2097	**0.2050**	0.0000	-0.0047	0.2097
7 Dec 20	15.123	15.123	0.2096	**0.2049**	0.0000	-0.0047	0.2096
8 Dec 20	5.504	5.504	0.0763	**0.1919**	0.1156	0.0000	0.1919

9 Dec 20	13.449	13.449	0.1864	**0.1817**	0.0000	-0.0047	0.1864
10 Dec 20	14.040	14.040	0.1946	**0.1899**	0.0000	-0.0047	0.1946
11 Dec 20	13.687	13.687	0.1897	**0.1850**	0.0000	-0.0047	0.1897
12 Dec 20	12.200	12.200	0.1691	**0.1644**	0.0000	-0.0047	0.1691
13 Dec 20	4.292	4.292	0.0595	**0.1751**	0.1156	0.0000	0.1751
14 Dec 20	13.701	13.701	0.1899	**0.1852**	0.0000	-0.0047	0.1899
15 Dec 20	4.321	4.321	0.0599	**0.1755**	0.1156	0.0000	0.1755
16 Dec 20	12.482	12.482	0.1730	**0.1683**	0.0000	-0.0047	0.1730
17 Dec 20	4.075	4.075	0.0565	**0.1721**	0.1156	0.0000	0.1721
18 Dec 20	12.078	12.078	0.1674	**0.1627**	0.0000	-0.0047	0.1674
19 Dec 20	12.244	12.244	0.1697	**0.1650**	0.0000	-0.0047	0.1697
20 Dec 20	3.505	3.505	0.0486	**0.1642**	0.1156	0.0000	0.1642
21 Dec 20	12.648	12.648	0.1753	**0.1706**	0.0000	-0.0047	0.1753
22 Dec 20	12.792	12.792	0.1773	**0.1726**	0.0000	-0.0047	0.1773
23 Dec 20	4.003	4.003	0.0555	**0.1711**	0.1156	0.0000	0.1711
24 Dec 20	12.763	12.763	0.1769	**0.1722**	0.0000	-0.0047	0.1769
25 Dec 20	4.292	4.292	0.0595	**0.1751**	0.1156	0.0000	0.1751
26 Dec 20	3.938	3.938	0.0546	**0.1702**	0.1156	0.0000	0.1702
27 Dec 20	12.648	12.648	0.1753	**0.1706**	0.0000	-0.0047	0.1753
28 Dec 20	3.837	3.837	0.0532	**0.1688**	0.1156	0.0000	0.1688
29 Dec 20	12.337	12.337	0.1710	**0.1663**	0.0000	-0.0047	0.1710
30 Dec 20	4.025	4.025	0.0558	**0.1714**	0.1156	0.0000	0.1714
31 Dec 20	12.150	12.150	0.1684	**0.1637**	0.0000	-0.0047	0.1684
1 Jan 21	3.858	3.858	0.0535	**0.1696**	0.1161	0.0000	0.1696
2 Jan 21	3.822	3.822	0.0530	**0.1691**	0.1161	0.0000	0.1691
3 Jan 21	3.735	3.735	0.0518	**0.1679**	0.1161	0.0000	0.1679
4 Jan 21	12.430	12.430	0.1722	**0.1681**	0.0000	-0.0041	0.1722
5 Jan 21	3.641	3.641	0.0505	**0.1666**	0.1161	0.0000	0.1666
6 Jan 21	12.314	12.314	0.1706	**0.1665**	0.0000	-0.0041	0.1706
7 Jan 21	3.591	3.591	0.0498	**0.1659**	0.1161	0.0000	0.1659
8 Jan 21	12.249	12.249	0.1697	**0.1656**	0.0000	-0.0041	0.1697
9 Jan 21	0.000	0.000	0.0000	**0.1698**	0.1698	0.0000	0.1698
10 Jan 21	4.314	4.314	0.0598	**0.1679**	0.1081	0.0000	0.1679
11 Jan 21	11.946	11.946	0.1655	**0.1614**	0.0000	-0.0041	0.1655
12 Jan 21	0.000	0.000	0.0000	**0.1644**	0.1644	0.0000	0.1644
13 Jan 21	20.481	20.481	0.2838	**0.1674**	0.0000	-0.1164	0.2838
14 Jan 21	0.000	0.000	0.0000	**0.1647**	0.1647	0.0000	0.1647

15 Jan 21	11.918	11.918	0.1651	**0.1610**	0.0000	-0.0041	0.1651
16 Jan 21	4.559	4.559	0.0632	**0.1713**	0.1081	0.0000	0.1713
17 Jan 21	4.444	4.444	0.0616	**0.1697**	0.1081	0.0000	0.1697
18 Jan 21	4.407	4.407	0.0611	**0.1692**	0.1081	0.0000	0.1692
19 Jan 21	3.722	3.722	0.0516	**0.1597**	0.1081	0.0000	0.1597
20 Jan 21	11.975	11.975	0.1659	**0.1618**	0.0000	-0.0041	0.1659
21 Jan 21	3.830	3.830	0.0531	**0.1612**	0.1081	0.0000	0.1612
22 Jan 21	4.523	4.523	0.0627	**0.1708**	0.1081	0.0000	0.1708
23 Jan 21	12.156	12.156	0.1684	**0.1643**	0.0000	-0.0041	0.1684
24 Jan 21	4.400	4.400	0.0610	**0.1691**	0.1081	0.0000	0.1691
25 Jan 21	3.325	3.325	0.0461	**0.1542**	0.1081	0.0000	0.1542
26 Jan 21	3.852	3.852	0.0534	**0.1609**	0.1075	0.0000	0.1609
27 Jan 21	4.364	4.364	0.0605	**0.1686**	0.1081	0.0000	0.1686
28 Jan 21	4.025	4.025	0.0558	**0.1639**	0.1081	0.0000	0.1639
29 Jan 21	4.061	4.061	0.0563	**0.1644**	0.1081	0.0000	0.1644
30 Jan 21	3.808	3.808	0.0528	**0.1609**	0.1081	0.0000	0.1609
31 Jan 21	3.873	3.873	0.0537	**0.1618**	0.1081	0.0000	0.1618
1 Feb 21	4.073	4.073	0.0564	**0.1624**	0.1060	0.0000	0.1624
2 Feb 21	4.426	4.426	0.0613	**0.1673**	0.1060	0.0000	0.1673
3 Feb 21	4.498	4.498	0.0623	**0.1683**	0.1060	0.0000	0.1683
4 Feb 21	4.231	4.231	0.0586	**0.1646**	0.1060	0.0000	0.1646
5 Feb 21	3.950	3.950	0.0547	**0.1607**	0.1060	0.0000	0.1607
6 Feb 21	4.065	4.065	0.0563	**0.1623**	0.1060	0.0000	0.1623
7 Feb 21	3.878	3.878	0.0537	**0.1597**	0.1060	0.0000	0.1597
8 Feb 21	4.527	4.527	0.0627	**0.1687**	0.1060	0.0000	0.1687
9 Feb 21	3.582	3.582	0.0496	**0.1556**	0.1060	0.0000	0.1556
10 Feb 21	4.051	4.051	0.0561	**0.1621**	0.1060	0.0000	0.1621
11 Feb 21	3.625	3.625	0.0502	**0.1562**	0.1060	0.0000	0.1562
12 Feb 21	3.647	3.647	0.0505	**0.1565**	0.1060	0.0000	0.1565
13 Feb 21	3.654	3.654	0.0506	**0.1566**	0.1060	0.0000	0.1566
14 Feb 21	3.553	3.553	0.0492	**0.1552**	0.1060	0.0000	0.1552
15 Feb 21	3.683	3.683	0.0510	**0.1570**	0.1060	0.0000	0.1570
16 Feb 21	3.748	3.748	0.0519	**0.1579**	0.1060	0.0000	0.1579
17 Feb 21	13.293	13.293	0.1842	**0.1779**	0.0000	-0.0063	0.1842
18 Feb 21	16.721	16.721	0.2317	**0.2254**	0.0000	-0.0063	0.2317
19 Feb 21	0.000	0.000	0.0000	**0.2258**	0.2258	0.0000	0.2258
20 Feb 21	0.568	0.568	0.0079	**0.2261**	0.2182	0.0000	0.2261

21 Feb 21	0.893	0.893	0.0124	**0.2306**	0.2182	0.0000	0.2306
22 Feb 21	0.308	0.308	0.0043	**0.2225**	0.2182	0.0000	0.2225
23 Feb 21	0.000	0.000	0.0000	**0.2146**	0.2146	0.0000	0.2146
24 Feb 21	8.359	8.359	0.1158	**0.2218**	0.1060	0.0000	0.2218
25 Feb 21	8.381	8.381	0.1161	**0.2221**	0.1060	0.0000	0.2221
26 Feb 21	23.021	23.021	0.3190	**0.3127**	0.0000	-0.0063	0.3190
27 Feb 21	0.000	0.000	0.0000	**0.3158**	0.3158	0.0000	0.3158
28 Feb 21	0.080	0.080	0.0011	**0.3316**	0.3305	0.0000	0.3316
			0.0000	**0.0000**	0.0000	0.0000	0.0000
1 Mar 21	0.000	0.000	0.0000	**0.3035**	0.3035	0.0000	0.3035
2 Mar 21	1.165	1.165	0.0161	**0.3426**	0.3265	0.0000	0.3426
3 Mar 21	2.212	2.212	0.0306	**0.3571**	0.3265	0.0000	0.3571
4 Mar 21	5.322	5.322	0.0737	**0.4002**	0.3265	0.0000	0.4002
5 Mar 21	0.000	0.000	0.0000	**0.5540**	0.5540	0.0000	0.5540
6 Mar 21	5.407	5.407	0.0749	**0.6259**	0.5510	0.0000	0.6259
7 Mar 21	5.132	5.132	0.0711	**0.6221**	0.5510	0.0000	0.6221
8 Mar 21	3.501	3.501	0.0485	**0.5995**	0.5510	0.0000	0.5995
9 Mar 21	1.878	1.878	0.0260	**0.5770**	0.5510	0.0000	0.5770
10 Mar 21	3.307	3.307	0.0458	**0.5968**	0.5510	0.0000	0.5968
11 Mar 21	4.848	4.848	0.0672	**0.6342**	0.5670	0.0000	0.6342
12 Mar 21	18.629	18.629	0.2581	**0.6327**	0.3746	0.0000	0.6327
13 Mar 21	0.000	0.000	0.0000	**0.6353**	0.6353	0.0000	0.6353
14 Mar 21	6.645	6.645	0.0921	**0.6591**	0.5670	0.0000	0.6591
15 Mar 21	18.376	18.376	0.2546	**0.6292**	0.3746	0.0000	0.6292
16 Mar 21	0.000	0.000	0.0000	**0.6685**	0.6685	0.0000	0.6685
17 Mar 21	0.000	0.000	0.0000	**0.6583**	0.6583	0.0000	0.6583
18 Mar 21	0.000	0.000	0.0000	**0.6464**	0.6464	0.0000	0.6464
19 Mar 21	0.000	0.000	0.0000	**0.6339**	0.6339	0.0000	0.6339
20 Mar 21	0.000	0.000	0.0000	**0.6146**	0.6146	0.0000	0.6146
21 Mar 21	0.000	0.000	0.0000	**0.5921**	0.5921	0.0000	0.5921
22 Mar 21	0.000	0.000	0.0000	**0.5879**	0.5879	0.0000	0.5879
23 Mar 21	0.000	0.000	0.0000	**0.5022**	0.5022	0.0000	0.5022
24 Mar 21	0.000	0.000	0.0000	**0.4348**	0.4348	0.0000	0.4348
25 Mar 21	0.000	0.000	0.0000	**0.3586**	0.3586	0.0000	0.3586
26 Mar 21	2.343	2.343	0.0325	**0.3108**	0.2783	0.0000	0.3108
27 Mar 21	7.353	7.353	0.1019	**0.2840**	0.1821	0.0000	0.2840
28 Mar 21	6.321	6.321	0.0876	**0.2697**	0.1821	0.0000	0.2697

29 Mar 21	21.855	21.855	0.3028	**0.2925**	0.0000	-0.0103	0.3028
30 Mar 21	11.950	11.950	0.1656	**0.3477**	0.1821	0.0000	0.3477
31 Mar 21	0.000	0.000	0.0000	**0.4031**	0.4031	0.0000	0.4031
	44.6219	41.2149	208.4542	**203.8712**	41.3687	-45.9517	249.8229

DHPS	2021-22						
Date	Calculated Avg Inflow	Usefull Inflow	Possible Gen as per Inflow (MU)	**Actual Gen (MU)**	Excess Gen (MU)	Short Gen (MU)	Max of possible Gen and Actual Gen
1 Apr 21	0.000	0.000	0.0000	**0.2268**	0.2268	0.0000	0.2268
2 Apr 21	0.000	0.000	0.0000	**0.2095**	0.2095	0.0000	0.2095
3 Apr 21	2.314	2.314	0.0321	**0.2181**	0.1860	0.0000	0.2181
4 Apr 21	2.725	2.725	0.0378	**0.2238**	0.1860	0.0000	0.2238
5 Apr 21	0.000	0.000	0.0000	**0.2026**	0.2026	0.0000	0.2026
6 Apr 21	0.000	0.000	0.0000	**0.1789**	0.1789	0.0000	0.1789
7 Apr 21	0.000	0.000	0.0000	**0.1613**	0.1613	0.0000	0.1613
8 Apr 21	0.000	0.000	0.0000	**0.1774**	0.1774	0.0000	0.1774
9 Apr 21	0.000	0.000	0.0000	**0.1796**	0.1796	0.0000	0.1796
10 Apr 21	0.000	0.000	0.0000	**0.1771**	0.1771	0.0000	0.1771
11 Apr 21	0.000	0.000	0.0000	**0.0000**	0.0000	0.0000	0.0000
12 Apr 21	0.394	0.394	0.0055	**0.1915**	0.1860	0.0000	0.1915
13 Apr 21	0.000	0.000	0.0000	**0.1595**	0.1595	0.0000	0.1595
14 Apr 21	0.000	0.000	0.0000	**0.1332**	0.1332	0.0000	0.1332
15 Apr 21	0.000	0.000	0.0000	**0.1199**	0.1199	0.0000	0.1199
16 Apr 21	0.000	0.000	0.0000	**0.1247**	0.1247	0.0000	0.1247
17 Apr 21	0.000	0.000	0.0000	**0.1166**	0.1166	0.0000	0.1166
18 Apr 21	0.000	0.000	0.0000	**0.1146**	0.1146	0.0000	0.1146
19 Apr 21	0.000	0.000	0.0000	**0.1170**	0.1170	0.0000	0.1170
20 Apr 21	1.868	1.868	0.0259	**0.1157**	0.0898	0.0000	0.1157
21 Apr 21	0.000	0.000	0.0000	**0.1187**	0.1187	0.0000	0.1187
22 Apr 21	0.000	0.000	0.0000	**0.1122**	0.1122	0.0000	0.1122
23 Apr 21	0.000	0.000	0.0000	**0.1135**	0.1135	0.0000	0.1135
24 Apr 21	0.000	0.000	0.0000	**0.1146**	0.1146	0.0000	0.1146
25 Apr 21	0.000	0.000	0.0000	**0.1120**	0.1120	0.0000	0.1120
26 Apr 21	0.000	0.000	0.0000	**0.1112**	0.1112	0.0000	0.1112
27 Apr 21	0.000	0.000	0.0000	**0.1115**	0.1115	0.0000	0.1115
28 Apr 21	0.000	0.000	0.0000	**0.1158**	0.1158	0.0000	0.1158
29 Apr 21	0.000	0.000	0.0000	**0.1143**	0.1143	0.0000	0.1143
30 Apr 21	8.834	8.834	0.1224	**0.1160**	0.0000	-0.0064	0.1224

1 May 21	0.000	0.000	0.0000	**0.1118**	0.1118	0.0000	0.1118
2 May 21	0.000	0.000	0.0000	**0.1090**	0.1090	0.0000	0.1090
3 May 21	0.000	0.000	0.0000	**0.1175**	0.1175	0.0000	0.1175
4 May 21	0.000	0.000	0.0000	**0.1617**	0.1617	0.0000	0.1617
5 May 21	0.000	0.000	0.0000	**0.1105**	0.1105	0.0000	0.1105
6 May 21	0.000	0.000	0.0000	**0.1085**	0.1085	0.0000	0.1085
7 May 21	0.000	0.000	0.0000	**0.1116**	0.1116	0.0000	0.1116
8 May 21	0.000	0.000	0.0000	**0.1116**	0.1116	0.0000	0.1116
9 May 21	1.555	1.555	0.0215	**0.1968**	0.1753	0.0000	0.1968
10 May 21	0.000	0.000	0.0000	**0.1039**	0.1039	0.0000	0.1039
11 May 21	0.000	0.000	0.0000	**0.1092**	0.1092	0.0000	0.1092
12 May 21	0.000	0.000	0.0000	**0.1066**	0.1066	0.0000	0.1066
13 May 21	0.000	0.000	0.0000	**0.1104**	0.1104	0.0000	0.1104
14 May 21	0.000	0.000	0.0000	**0.1084**	0.1084	0.0000	0.1084
15 May 21	3.791	3.791	0.0525	**0.1075**	0.0550	0.0000	0.1075
16 May 21	4.065	4.065	0.0563	**0.1113**	0.0550	0.0000	0.1113
17 May 21	0.000	0.000	0.0000	**0.1057**	0.1057	0.0000	0.1057
18 May 21	0.017	0.017	0.0002	**0.0552**	0.0550	0.0000	0.0552
19 May 21	0.623	0.623	0.0086	**0.0636**	0.0550	0.0000	0.0636
20 May 21	4.516	4.516	0.0626	**0.0574**	0.0000	-0.0052	0.0626
21 May 21	4.041	4.041	0.0560	**0.0560**	0.0000	0.0000	0.0560
22 May 21	3.510	3.510	0.0486	**0.1036**	0.0550	0.0000	0.1036
23 May 21	4.451	4.451	0.0617	**0.0565**	0.0000	-0.0052	0.0617
24 May 21	4.256	4.256	0.0590	**0.0538**	0.0000	-0.0052	0.0590
25 May 21	4.155	4.155	0.0576	**0.0524**	0.0000	-0.0052	0.0576
26 May 21	3.733	3.733	0.0517	**0.1067**	0.0550	0.0000	0.1067
27 May 21	0.000	0.000	0.0000	**0.0978**	0.0978	0.0000	0.0978
28 May 21	0.000	0.000	0.0000	**0.0546**	0.0546	0.0000	0.0546
29 May 21	4.285	4.285	0.0594	**0.0542**	0.0000	-0.0052	0.0594
30 May 21	0.000	0.000	0.0000	**0.0540**	0.0540	0.0000	0.0540
31 May 21	4.407	4.407	0.0611	**0.0559**	0.0000	-0.0052	0.0611
1 Jun 21	4.690	4.690	0.0650	**0.0575**	0.0000	-0.0075	0.0650
2 Jun 21	4.466	4.466	0.0619	**0.0544**	0.0000	-0.0075	0.0619
3 Jun 21	4.444	4.444	0.0616	**0.0541**	0.0000	-0.0075	0.0616
4 Jun 21	4.740	4.740	0.0657	**0.0582**	0.0000	-0.0075	0.0657
5 Jun 21	0.342	0.342	0.0047	**0.0574**	0.0527	0.0000	0.0574
6 Jun 21	0.328	0.328	0.0045	**0.0572**	0.0527	0.0000	0.0572

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7 Jun 21	4.473	4.473	0.0620	**0.0545**	0.0000	-0.0075	0.0620
8 Jun 21	0.046	0.046	0.0006	**0.0533**	0.0527	0.0000	0.0533
9 Jun 21	0.400	0.400	0.0055	**0.0582**	0.0527	0.0000	0.0582
10 Jun 21	4.473	4.473	0.0620	**0.0545**	0.0000	-0.0075	0.0620
11 Jun 21	21.986	21.986	0.3047	**0.0566**	0.0000	-0.2481	0.3047
12 Jun 21	12.674	12.674	0.1756	**0.1080**	0.0000	-0.0676	0.1756
13 Jun 21	8.392	8.392	0.1163	**0.1088**	0.0000	-0.0075	0.1163
14 Jun 21	12.075	12.075	0.1673	**0.0997**	0.0000	-0.0676	0.1673
15 Jun 21	15.828	15.828	0.2193	**0.1517**	0.0000	-0.0676	0.2193
16 Jun 21	20.320	20.320	0.2816	**0.1538**	0.0000	-0.1278	0.2816
17 Jun 21	16.607	16.607	0.2301	**0.1625**	0.0000	-0.0676	0.2301
18 Jun 21	16.983	16.983	0.2353	**0.1677**	0.0000	-0.0676	0.2353
19 Jun 21	13.047	13.047	0.1808	**0.1733**	0.0000	-0.0075	0.1808
20 Jun 21	42.844	42.844	0.5937	**0.1652**	0.0000	-0.4285	0.5937
21 Jun 21	70.189	70.189	0.9726	**0.2434**	0.0000	-0.7292	0.9726
22 Jun 21	37.592	37.592	0.5209	**0.3330**	0.0000	-0.1879	0.5209
23 Jun 21	28.257	28.257	0.3916	**0.5645**	0.1729	0.0000	0.5645
24 Jun 21	19.303	19.303	0.2675	**0.5607**	0.2932	0.0000	0.5607
25 Jun 21	19.346	19.346	0.2681	**0.5613**	0.2932	0.0000	0.5613
26 Jun 21	21.377	21.377	0.2962	**0.5293**	0.2331	0.0000	0.5293
27 Jun 21	20.231	20.231	0.2803	**0.3330**	0.0527	0.0000	0.3330
28 Jun 21	15.602	15.602	0.2162	**0.3290**	0.1128	0.0000	0.3290
29 Jun 21	8.358	8.358	0.1158	**0.3489**	0.2331	0.0000	0.3489
30 Jun 21	11.521	11.521	0.1596	**0.2123**	0.0527	0.0000	0.2123
1 Jul 21	14.162	14.162	0.1962	**0.1859**	0.0000	-0.0103	0.1962
2 Jul 21	14.011	14.011	0.1941	**0.1838**	0.0000	-0.0103	0.1941
3 Jul 21	14.191	14.191	0.1966	**0.1863**	0.0000	-0.0103	0.1966
4 Jul 21	15.086	15.086	0.2090	**0.1987**	0.0000	-0.0103	0.2090
5 Jul 21	70.648	70.648	0.9790	**0.2469**	0.0000	-0.7321	0.9790
6 Jul 21	25.317	25.317	0.3508	**0.5209**	0.1701	0.0000	0.5209
7 Jul 21	34.561	34.561	0.4789	**0.5287**	0.0498	0.0000	0.5287
8 Jul 21	44.378	44.378	0.6149	**0.4843**	0.0000	-0.1306	0.6149
9 Jul 21	43.666	43.666	0.6051	**0.4143**	0.0000	-0.1908	0.6051
10 Jul 21	68.017	68.017	0.9425	**0.5713**	0.0000	-0.3712	0.9425
11 Jul 21	36.023	36.023	0.4992	**0.6091**	0.1099	0.0000	0.6091
12 Jul 21	33.663	33.663	0.4665	**0.5764**	0.1099	0.0000	0.5764
13 Jul 21	41.514	41.514	0.5752	**0.5649**	0.0000	-0.0103	0.5752

14 Jul 21	23.965	23.965	0.3321	**0.5623**	0.2302	0.0000	0.5623
15 Jul 21	30.091	30.091	0.4170	**0.5269**	0.1099	0.0000	0.5269
16 Jul 21	38.172	38.172	0.5289	**0.5186**	0.0000	-0.0103	0.5289
17 Jul 21	88.831	88.831	1.2309	**0.5590**	0.0000	-0.6719	1.2309
18 Jul 21	76.146	76.146	1.0551	**0.6238**	0.0000	-0.4313	1.0551
19 Jul 21	60.731	60.731	0.8415	**0.7109**	0.0000	-0.1306	0.8415
20 Jul 21	114.684	114.684	1.5892	**0.6887**	0.0000	-0.9005	1.5892
21 Jul 21	101.951	101.951	1.4127	**0.8250**	0.0000	-0.5877	1.4127
22 Jul 21	36.910	36.910	0.5115	**1.1747**	0.6632	0.0000	1.1747
23 Jul 21	25.556	25.556	0.3541	**1.1978**	0.8437	0.0000	1.1978
24 Jul 21	28.831	28.831	0.3995	**0.8703**	0.4708	0.0000	0.8703
25 Jul 21	37.874	37.874	0.5248	**0.6949**	0.1701	0.0000	0.6949
26 Jul 21	35.687	35.687	0.4945	**0.5443**	0.0498	0.0000	0.5443
27 Jul 21	53.784	53.784	0.7453	**0.5545**	0.0000	-0.1908	0.7453
28 Jul 21	36.401	36.401	0.5044	**0.5542**	0.0498	0.0000	0.5542
29 Jul 21	22.731	22.731	0.3150	**0.5452**	0.2302	0.0000	0.5452
30 Jul 21	39.031	39.031	0.5408	**0.5305**	0.0000	-0.0103	0.5408
31 Jul 21	156.200	129.900	1.8000	**0.5543**	0.0000	-1.2457	1.8000
1 Aug 21	146.116	129.900	1.8000	**0.7608**	0.0000	-1.0392	1.8000
2 Aug 21	167.934	129.900	1.8000	**0.9669**	0.0000	-0.8331	1.8000
3 Aug 21	98.490	98.490	1.3648	**1.2556**	0.0000	-0.1092	1.3648
4 Aug 21	49.894	49.894	0.6914	**1.2558**	0.5644	0.0000	1.2558
5 Aug 21	29.847	29.847	0.4136	**1.2667**	0.8531	0.0000	1.2667
6 Aug 21	38.136	38.136	0.5284	**1.1891**	0.6607	0.0000	1.1891
7 Aug 21	87.923	87.923	1.2183	**1.2054**	0.0000	-0.0129	1.2183
8 Aug 21	116.560	116.560	1.6151	**1.2173**	0.0000	-0.3978	1.6151
9 Aug 21	61.264	61.264	0.8489	**1.2209**	0.3720	0.0000	1.2209
10 Aug 21	18.666	18.666	0.2587	**1.2080**	0.9493	0.0000	1.2080
11 Aug 21	38.071	38.071	0.5275	**1.1882**	0.6607	0.0000	1.1882
12 Aug 21	45.317	45.317	0.6279	**0.7353**	0.1074	0.0000	0.7353
13 Aug 21	40.203	40.203	0.5571	**0.6043**	0.0472	0.0000	0.6043
14 Aug 21	27.604	27.604	0.3825	**0.5500**	0.1675	0.0000	0.5500
15 Aug 21	30.104	30.104	0.4171	**0.5245**	0.1074	0.0000	0.5245
16 Aug 21	37.043	37.043	0.5133	**0.5605**	0.0472	0.0000	0.5605
17 Aug 21	238.015	129.900	1.8000	**0.6269**	0.0000	-1.1731	1.8000
18 Aug 21	189.928	129.900	1.8000	**0.6943**	0.0000	-1.1057	1.8000
19 Aug 21	125.878	125.878	1.7443	**0.5766**	0.0000	-1.1677	1.7443

20 Aug 21	98.641	98.641	1.3669	**0.5841**	0.0000	-0.7828	1.3669
21 Aug 21	92.628	92.628	1.2835	**0.5970**	0.0000	-0.6865	1.2835
22 Aug 21	73.519	73.519	1.0187	**0.6209**	0.0000	-0.3978	1.0187
23 Aug 21	58.129	58.129	0.8055	**0.6001**	0.0000	-0.2054	0.8055
24 Aug 21	44.096	44.096	0.6110	**0.5981**	0.0000	-0.0129	0.6110
25 Aug 21	43.974	43.974	0.6093	**0.5964**	0.0000	-0.0129	0.6093
26 Aug 21	57.848	57.848	0.8016	**0.5962**	0.0000	-0.2054	0.8016
27 Aug 21	51.243	51.243	0.7101	**0.6009**	0.0000	-0.1092	0.7101
28 Aug 21	59.738	59.738	0.8278	**0.3337**	0.0000	-0.4941	0.8278
29 Aug 21	65.325	65.325	0.9052	**0.3149**	0.0000	-0.5903	0.9052
30 Aug 21	90.924	90.924	1.2599	**0.2847**	0.0000	-0.9752	1.2599
31 Aug 21	124.773	124.773	1.7290	**0.2726**	0.0000	-1.4564	1.7290
1 Sep 21	102.575	102.575	1.4214	**0.2554**	0.0000	-1.1660	1.4214
2 Sep 21	109.837	109.837	1.5220	**0.2598**	0.0000	-1.2622	1.5220
3 Sep 21	119.646	119.646	1.6579	**0.2995**	0.0000	-1.3584	1.6579
4 Sep 21	91.919	91.919	1.2737	**0.3002**	0.0000	-0.9735	1.2737
5 Sep 21	64.993	64.993	0.9006	**0.3120**	0.0000	-0.5886	0.9006
6 Sep 21	58.366	58.366	0.8088	**0.3164**	0.0000	-0.4924	0.8088
7 Sep 21	51.847	51.847	0.7184	**0.3223**	0.0000	-0.3961	0.7184
8 Sep 21	163.081	129.900	1.8000	**0.3240**	0.0000	-1.4760	1.8000
9 Sep 21	76.013	76.013	1.0533	**0.4647**	0.0000	-0.5886	1.0533
10 Sep 21	87.843	87.843	1.2172	**0.6607**	0.0000	-0.5565	1.2172
11 Sep 21	49.104	49.104	0.6804	**0.6692**	0.0000	-0.0112	0.6804
12 Sep 21	63.302	63.302	0.8772	**0.6414**	0.0000	-0.2358	0.8772
13 Sep 21	45.200	45.200	0.6263	**0.6151**	0.0000	-0.0112	0.6263
14 Sep 21	35.489	35.489	0.4918	**0.5928**	0.1010	0.0000	0.5928
15 Sep 21	36.196	36.196	0.5016	**0.6026**	0.1010	0.0000	0.6026
16 Sep 21	44.319	44.319	0.6141	**0.6029**	0.0000	-0.0112	0.6141
17 Sep 21	108.138	108.138	1.4985	**0.5891**	0.0000	-0.9094	1.4985
18 Sep 21	85.738	85.738	1.1881	**0.6155**	0.0000	-0.5726	1.1881
19 Sep 21	56.427	56.427	0.7819	**0.6584**	0.0000	-0.1235	0.7819
20 Sep 21	44.067	44.067	0.6106	**0.5994**	0.0000	-0.0112	0.6106
21 Sep 21	52.926	52.926	0.7334	**0.6099**	0.0000	-0.1235	0.7334
22 Sep 21	44.514	44.514	0.6168	**0.6056**	0.0000	-0.0112	0.6168
23 Sep 21	52.681	52.681	0.7300	**0.6065**	0.0000	-0.1235	0.7300
24 Sep 21	44.269	44.269	0.6134	**0.6022**	0.0000	-0.0112	0.6134
25 Sep 21	44.305	44.305	0.6139	**0.6027**	0.0000	-0.0112	0.6139

26 Sep 21	44.449	44.449	0.6159	**0.6047**	0.0000	-0.0112	0.6159
27 Sep 21	37.120	37.120	0.5144	**0.6154**	0.1010	0.0000	0.6154
28 Sep 21	35.871	35.871	0.4971	**0.5981**	0.1010	0.0000	0.5981
29 Sep 21	44.781	44.781	0.6205	**0.6093**	0.0000	-0.0112	0.6205
30 Sep 21	33.442	33.442	0.4634	**0.6767**	0.2133	0.0000	0.6767
1 Oct 21	23.768	23.768	0.3293	**0.3190**	0.0000	-0.0103	0.3293
2 Oct 21	20.080	20.080	0.2782	**0.2679**	0.0000	-0.0103	0.2782
3 Oct 21	28.182	28.182	0.3905	**0.2679**	0.0000	-0.1226	0.3905
4 Oct 21	18.853	18.853	0.2612	**0.2509**	0.0000	-0.0103	0.2612
5 Oct 21	34.905	34.905	0.4837	**0.2488**	0.0000	-0.2349	0.4837
6 Oct 21	26.515	26.515	0.3674	**0.2448**	0.0000	-0.1226	0.3674
7 Oct 21	18.810	18.810	0.2606	**0.2503**	0.0000	-0.0103	0.2606
8 Oct 21	26.912	26.912	0.3729	**0.2503**	0.0000	-0.1226	0.3729
9 Oct 21	18.904	18.904	0.2619	**0.2516**	0.0000	-0.0103	0.2619
10 Oct 21	18.695	18.695	0.2590	**0.2487**	0.0000	-0.0103	0.2590
11 Oct 21	27.027	27.027	0.3745	**0.2519**	0.0000	-0.1226	0.3745
12 Oct 21	19.438	19.438	0.2693	**0.2590**	0.0000	-0.0103	0.2693
13 Oct 21	19.373	19.373	0.2684	**0.2581**	0.0000	-0.0103	0.2684
14 Oct 21	20.297	20.297	0.2812	**0.2709**	0.0000	-0.0103	0.2812
15 Oct 21	11.942	11.942	0.1655	**0.2674**	0.1019	0.0000	0.2674
16 Oct 21	9.359	9.359	0.1297	**0.2316**	0.1019	0.0000	0.2316
17 Oct 21	18.666	18.666	0.2586	**0.2483**	0.0000	-0.0103	0.2586
18 Oct 21	10.506	10.506	0.1456	**0.2475**	0.1019	0.0000	0.2475
19 Oct 21	19.055	19.055	0.2640	**0.2537**	0.0000	-0.0103	0.2640
20 Oct 21	18.889	18.889	0.2617	**0.2514**	0.0000	-0.0103	0.2617
21 Oct 21	33.621	33.621	0.4659	**0.2310**	0.0000	-0.2349	0.4659
22 Oct 21	25.865	25.865	0.3584	**0.2358**	0.0000	-0.1226	0.3584
23 Oct 21	25.627	25.627	0.3551	**0.2325**	0.0000	-0.1226	0.3551
24 Oct 21	17.598	17.598	0.2438	**0.2335**	0.0000	-0.0103	0.2438
25 Oct 21	17.569	17.569	0.2434	**0.2331**	0.0000	-0.0103	0.2434
26 Oct 21	16.270	16.270	0.2254	**0.2151**	0.0000	-0.0103	0.2254
27 Oct 21	17.475	17.475	0.2421	**0.2318**	0.0000	-0.0103	0.2421
28 Oct 21	9.258	9.258	0.1283	**0.2302**	0.1019	0.0000	0.2302
29 Oct 21	8.529	8.529	0.1182	**0.2201**	0.1019	0.0000	0.2201
30 Oct 21	16.515	16.515	0.2288	**0.2185**	0.0000	-0.0103	0.2288
31 Oct 21	7.987	7.987	0.1107	**0.2126**	0.1019	0.0000	0.2126
1 Nov 21	15.517	15.517	0.2150	**0.2086**	0.0000	-0.0064	0.2150

2 Nov 21	7.761	7.761	0.1075	**0.2134**	0.1059	0.0000	0.2134
3 Nov 21	7.350	7.350	0.1018	**0.2077**	0.1059	0.0000	0.2077
4 Nov 21	7.964	7.964	0.1103	**0.2162**	0.1059	0.0000	0.2162
5 Nov 21	7.422	7.422	0.1028	**0.2087**	0.1059	0.0000	0.2087
6 Nov 21	7.581	7.581	0.1050	**0.2109**	0.1059	0.0000	0.2109
7 Nov 21	7.372	7.372	0.1021	**0.2080**	0.1059	0.0000	0.2080
8 Nov 21	7.733	7.733	0.1071	**0.2130**	0.1059	0.0000	0.2130
9 Nov 21	7.891	7.891	0.1093	**0.2152**	0.1059	0.0000	0.2152
10 Nov 21	6.715	6.715	0.0930	**0.1989**	0.1059	0.0000	0.1989
11 Nov 21	7.401	7.401	0.1025	**0.2084**	0.1059	0.0000	0.2084
12 Nov 21	0.000	0.000	0.0000	**0.2110**	0.2110	0.0000	0.2110
13 Nov 21	6.939	6.939	0.0961	**0.2020**	0.1059	0.0000	0.2020
14 Nov 21	7.516	7.516	0.1041	**0.2100**	0.1059	0.0000	0.2100
15 Nov 21	7.733	7.733	0.1071	**0.2130**	0.1059	0.0000	0.2130
16 Nov 21	0.000	0.000	0.0000	**0.2110**	0.2110	0.0000	0.2110
17 Nov 21	7.805	7.805	0.1081	**0.2140**	0.1059	0.0000	0.2140
18 Nov 21	0.000	0.000	0.0000	**0.2110**	0.2110	0.0000	0.2110
19 Nov 21	0.000	0.000	0.0000	**0.2080**	0.2080	0.0000	0.2080
20 Nov 21	8.529	8.529	0.1182	**0.2080**	0.0898	0.0000	0.2080
21 Nov 21	7.880	7.880	0.1092	**0.1990**	0.0898	0.0000	0.1990
22 Nov 21	1.513	1.513	0.0210	**0.2070**	0.1860	0.0000	0.2070
23 Nov 21	1.657	1.657	0.0230	**0.2090**	0.1860	0.0000	0.2090
24 Nov 21	1.729	1.729	0.0240	**0.2100**	0.1860	0.0000	0.2100
25 Nov 21	1.873	1.873	0.0260	**0.2090**	0.1830	0.0000	0.2090
26 Nov 21	1.729	1.729	0.0240	**0.2100**	0.1860	0.0000	0.2100
27 Nov 21	15.474	15.474	0.2144	**0.2080**	0.0000	-0.0064	0.2144
28 Nov 21	8.241	8.241	0.1142	**0.2040**	0.0898	0.0000	0.2040
29 Nov 21	8.168	8.168	0.1132	**0.2030**	0.0898	0.0000	0.2030
30 Nov 21	1.152	1.152	0.0160	**0.2020**	0.1860	0.0000	0.2020
1 Dec 21	0.000	0.000	0.0000	**0.1990**	0.1990	0.0000	0.1990
2 Dec 21	7.897	7.897	0.1094	**0.2010**	0.0916	0.0000	0.2010
3 Dec 21	1.313	1.313	0.0182	**0.2060**	0.1878	0.0000	0.2060
4 Dec 21	0.953	0.953	0.0132	**0.2010**	0.1878	0.0000	0.2010
5 Dec 21	0.000	0.000	0.0000	**0.2030**	0.2030	0.0000	0.2030
6 Dec 21	1.025	1.025	0.0142	**0.2020**	0.1878	0.0000	0.2020
7 Dec 21	0.880	0.880	0.0122	**0.2000**	0.1878	0.0000	0.2000
8 Dec 21	8.114	8.114	0.1124	**0.2040**	0.0916	0.0000	0.2040

9 Dec 21	1.025	1.025	0.0142	**0.2020**	0.1878	0.0000	0.2020
10 Dec 21	1.169	1.169	0.0162	**0.2040**	0.1878	0.0000	0.2040
11 Dec 21	7.825	7.825	0.1084	**0.2000**	0.0916	0.0000	0.2000
12 Dec 21	0.664	0.664	0.0092	**0.1970**	0.1878	0.0000	0.1970
13 Dec 21	0.361	0.361	0.0050	**0.1928**	0.1878	0.0000	0.1928
14 Dec 21	7.464	7.464	0.1034	**0.1950**	0.0916	0.0000	0.1950
15 Dec 21	7.897	7.897	0.1094	**0.2010**	0.0916	0.0000	0.2010
16 Dec 21	0.520	0.520	0.0072	**0.1950**	0.1878	0.0000	0.1950
17 Dec 21	0.447	0.447	0.0062	**0.1940**	0.1878	0.0000	0.1940
18 Dec 21	0.808	0.808	0.0112	**0.1990**	0.1878	0.0000	0.1990
19 Dec 21	0.000	0.000	0.0000	**0.2080**	0.2080	0.0000	0.2080
20 Dec 21	7.753	7.753	0.1074	**0.1990**	0.0916	0.0000	0.1990
21 Dec 21	0.953	0.953	0.0132	**0.2010**	0.1878	0.0000	0.2010
22 Dec 21	0.375	0.375	0.0052	**0.1930**	0.1878	0.0000	0.1930
23 Dec 21	3.278	3.278	0.0454	**0.1370**	0.0916	0.0000	0.1370
24 Dec 21	0.000	0.000	0.0000	**0.1410**	0.1410	0.0000	0.1410
25 Dec 21	2.845	2.845	0.0394	**0.1310**	0.0916	0.0000	0.1310
26 Dec 21	3.062	3.062	0.0424	**0.1340**	0.0916	0.0000	0.1340
27 Dec 21	3.062	3.062	0.0424	**0.1340**	0.0916	0.0000	0.1340
28 Dec 21	2.918	2.918	0.0404	**0.1320**	0.0916	0.0000	0.1320
29 Dec 21	2.918	2.918	0.0404	**0.1320**	0.0916	0.0000	0.1320
30 Dec 21	3.062	3.062	0.0424	**0.1340**	0.0916	0.0000	0.1340
31 Dec 21	2.918	2.918	0.0404	**0.1320**	0.0916	0.0000	0.1320
1 Jan 22	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270
2 Jan 22	2.952	2.952	0.0409	**0.1330**	0.0921	0.0000	0.1330
3 Jan 22	2.592	2.592	0.0359	**0.1280**	0.0921	0.0000	0.1280
4 Jan 22	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270
5 Jan 22	0.000	0.000	0.0000	**0.1280**	0.1280	0.0000	0.1280
6 Jan 22	2.736	2.736	0.0379	**0.1300**	0.0921	0.0000	0.1300
7 Jan 22	0.000	0.000	0.0000	**0.1320**	0.1320	0.0000	0.1320
8 Jan 22	2.880	2.880	0.0399	**0.1320**	0.0921	0.0000	0.1320
9 Jan 22	2.447	2.447	0.0339	**0.1260**	0.0921	0.0000	0.1260
10 Jan 22	0.000	0.000	0.0000	**0.1240**	0.1240	0.0000	0.1240
11 Jan 22	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270
12 Jan 22	2.664	2.664	0.0369	**0.1290**	0.0921	0.0000	0.1290
13 Jan 22	2.808	2.808	0.0389	**0.1310**	0.0921	0.0000	0.1310
14 Jan 22	2.664	2.664	0.0369	**0.1290**	0.0921	0.0000	0.1290

15 Jan 22	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270
16 Jan 22	2.736	2.736	0.0379	**0.1300**	0.0921	0.0000	0.1300
17 Jan 22	2.664	2.664	0.0369	**0.1290**	0.0921	0.0000	0.1290
18 Jan 22	2.664	2.664	0.0369	**0.1290**	0.0921	0.0000	0.1290
19 Jan 22	2.592	2.592	0.0359	**0.1280**	0.0921	0.0000	0.1280
20 Jan 22	2.664	2.664	0.0369	**0.1290**	0.0921	0.0000	0.1290
21 Jan 22	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270
22 Jan 22	2.620	2.620	0.0363	**0.1284**	0.0921	0.0000	0.1284
23 Jan 22	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270
24 Jan 22	2.664	2.664	0.0369	**0.1290**	0.0921	0.0000	0.1290
25 Jan 22	2.808	2.808	0.0389	**0.1310**	0.0921	0.0000	0.1310
26 Jan 22	0.000	0.000	0.0000	**0.1280**	0.1280	0.0000	0.1280
27 Jan 22	2.952	2.952	0.0409	**0.1330**	0.0921	0.0000	0.1330
28 Jan 22	0.000	0.000	0.0000	**0.1240**	0.1240	0.0000	0.1240
29 Jan 22	0.000	0.000	0.0000	**0.1220**	0.1220	0.0000	0.1220
30 Jan 22	2.303	2.303	0.0319	**0.1240**	0.0921	0.0000	0.1240
31 Jan 22	1.509	1.509	0.0209	**0.1130**	0.0921	0.0000	0.1130
1 Feb 22	3.036	3.036	0.0421	**0.1320**	0.0899	0.0000	0.1320
2 Feb 22	2.459	2.459	0.0341	**0.1240**	0.0899	0.0000	0.1240
3 Feb 22	0.000	0.000	0.0000	**0.1250**	0.1250	0.0000	0.1250
4 Feb 22	5.346	5.346	0.0741	**0.1640**	0.0899	0.0000	0.1640
5 Feb 22	3.614	3.614	0.0501	**0.1400**	0.0899	0.0000	0.1400
6 Feb 22	3.108	3.108	0.0431	**0.1330**	0.0899	0.0000	0.1330
7 Feb 22	12.201	12.201	0.1691	**0.2590**	0.0899	0.0000	0.2590
8 Feb 22	1.954	1.954	0.0271	**0.1170**	0.0899	0.0000	0.1170
9 Feb 22	4.480	4.480	0.0621	**0.1520**	0.0899	0.0000	0.1520
10 Feb 22	5.201	5.201	0.0721	**0.1620**	0.0899	0.0000	0.1620
11 Feb 22	0.000	0.000	0.0000	**0.1580**	0.1580	0.0000	0.1580
12 Feb 22	4.840	4.840	0.0671	**0.1570**	0.0899	0.0000	0.1570
13 Feb 22	4.768	4.768	0.0661	**0.1560**	0.0899	0.0000	0.1560
14 Feb 22	0.000	0.000	0.0000	**0.1530**	0.1530	0.0000	0.1530
15 Feb 22	0.000	0.000	0.0000	**0.1310**	0.1310	0.0000	0.1310
16 Feb 22	0.000	0.000	0.0000	**0.1260**	0.1260	0.0000	0.1260
17 Feb 22	9.476	9.476	0.1313	**0.1250**	0.0000	-0.0063	0.1313
18 Feb 22	0.000	0.000	0.0000	**0.1240**	0.1240	0.0000	0.1240
19 Feb 22	0.000	0.000	0.0000	**0.1210**	0.1210	0.0000	0.1210
20 Feb 22	0.000	0.000	0.0000	**0.1230**	0.1230	0.0000	0.1230

21 Feb 22	0.000	0.000	0.0000	**0.1220**	0.1220	0.0000	0.1220
22 Feb 22	0.000	0.000	0.0000	**0.1210**	0.1210	0.0000	0.1210
23 Feb 22	2.387	2.387	0.0331	**0.1230**	0.0899	0.0000	0.1230
24 Feb 22	2.459	2.459	0.0341	**0.1240**	0.0899	0.0000	0.1240
25 Feb 22	2.675	2.675	0.0371	**0.1270**	0.0899	0.0000	0.1270
26 Feb 22	2.026	2.026	0.0281	**0.1180**	0.0899	0.0000	0.1180
27 Feb 22	2.531	2.531	0.0351	**0.1250**	0.0899	0.0000	0.1250
28 Feb 22	2.098	2.098	0.0291	**0.1190**	0.0899	0.0000	0.1190
			0.0000	**0.0000**	0.0000	0.0000	0.0000
1 Mar 22	2.462	2.462	0.0341	**0.1200**	0.0859	0.0000	0.1200
2 Mar 22	2.607	2.607	0.0361	**0.1220**	0.0859	0.0000	0.1220
3 Mar 22	0.000	0.000	0.0000	**0.1220**	0.1220	0.0000	0.1220
4 Mar 22	2.462	2.462	0.0341	**0.1200**	0.0859	0.0000	0.1200
5 Mar 22	0.000	0.000	0.0000	**0.1180**	0.1180	0.0000	0.1180
6 Mar 22	0.000	0.000	0.0000	**0.1170**	0.1170	0.0000	0.1170
7 Mar 22	2.607	2.607	0.0361	**0.1220**	0.0859	0.0000	0.1220
8 Mar 22	0.000	0.000	0.0000	**0.1200**	0.1200	0.0000	0.1200
9 Mar 22	0.000	0.000	0.0000	**0.1180**	0.1180	0.0000	0.1180
10 Mar 22	2.462	2.462	0.0341	**0.1200**	0.0859	0.0000	0.1200
11 Mar 22	0.000	0.000	0.0000	**0.1180**	0.1180	0.0000	0.1180
12 Mar 22	0.000	0.000	0.0000	**0.1160**	0.1160	0.0000	0.1160
13 Mar 22	0.000	0.000	0.0000	**0.1170**	0.1170	0.0000	0.1170
14 Mar 22	0.000	0.000	0.0000	**0.1160**	0.1160	0.0000	0.1160
15 Mar 22	2.029	2.029	0.0281	**0.1140**	0.0859	0.0000	0.1140
16 Mar 22	0.000	0.000	0.0000	**0.1180**	0.1180	0.0000	0.1180

17 Mar 22	0.000	0.000	0.0000	**0.1180**	0.1180	0.0000	0.1180
18 Mar 22	0.000	0.000	0.0000	**0.1150**	0.1150	0.0000	0.1150
19 Mar 22	0.000	0.000	0.0000	**0.1150**	0.1150	0.0000	0.1150
20 Mar 22	0.000	0.000	0.0000	**0.1160**	0.1160	0.0000	0.1160
21 Mar 22	0.000	0.000	0.0000	**0.1130**	0.1130	0.0000	0.1130
22 Mar 22	1.957	1.957	0.0271	**0.1130**	0.0859	0.0000	0.1130
23 Mar 22	0.000	0.000	0.0000	**0.0730**	0.0730	0.0000	0.0730
24 Mar 22	0.000	0.000	0.0000	**0.0637**	0.0637	0.0000	0.0637
25 Mar 22	0.000	0.000	0.0000	**0.0753**	0.0753	0.0000	0.0753
26 Mar 22	0.000	0.000	0.0000	**0.0758**	0.0758	0.0000	0.0758
27 Mar 22	0.000	0.000	0.0000	**0.0635**	0.0635	0.0000	0.0635
28 Mar 22	0.000	0.000	0.0000	**0.0619**	0.0619	0.0000	0.0619
29 Mar 22	0.000	0.000	0.0000	**0.0585**	0.0585	0.0000	0.0585
30 Mar 22	0.000	0.000	0.0000	**0.0586**	0.0586	0.0000	0.0586
31 Mar 22	0.000	0.000	0.0000	**0.0622**	0.0622	0.0000	0.0622
	20.2370	19.4647	98.4474	**100.57883**	34.1594	-32.0280	132.6069

DHPS	2022-23						
Date	Calculated Avg Inflow	Usefull Inflow	Possible Gen as per Inflow (MU)	**Actual Gen (MU)**	Excess Gen (MU)	Short Gen (MU)	Max of possible Gen and Actual Gen
1 Apr 22	0.000	0.000	0.0000	**0.0585**	0.0585	0.0000	0.0585
2 Apr 22	0.000	0.000	0.0000	**0.0591**	0.0591	0.0000	0.0591
3 Apr 22	0.000	0.000	0.0000	**0.0567**	0.0567	0.0000	0.0567
4 Apr 22	4.519	4.519	0.0626	**0.0562**	0.0000	-0.0064	0.0626
5 Apr 22	0.000	0.000	0.0000	**0.0552**	0.0552	0.0000	0.0552
6 Apr 22	0.000	0.000	0.0000	**0.0625**	0.0625	0.0000	0.0625
7 Apr 22	0.000	0.000	0.0000	**0.0570**	0.0570	0.0000	0.0570
8 Apr 22	0.000	0.000	0.0000	**0.0603**	0.0603	0.0000	0.0603
9 Apr 22	4.512	4.512	0.0625	**0.0561**	0.0000	-0.0064	0.0625
10 Apr 22	11.636	11.636	0.1612	**0.0586**	0.0000	-0.1026	0.1612
11 Apr 22	39.977	39.977	0.5540	**0.0664**	0.0000	-0.4876	0.5540
12 Apr 22	25.468	25.468	0.3529	**0.0578**	0.0000	-0.2951	0.3529
13 Apr 22	25.359	25.359	0.3514	**0.0563**	0.0000	-0.2951	0.3514
14 Apr 22	0.000	0.000	0.0000	**0.0580**	0.0580	0.0000	0.0580
15 Apr 22	4.641	4.641	0.0643	**0.0579**	0.0000	-0.0064	0.0643
16 Apr 22	0.000	0.000	0.0000	**0.0585**	0.0585	0.0000	0.0585
17 Apr 22	11.651	11.651	0.1614	**0.0588**	0.0000	-0.1026	0.1614
18 Apr 22	11.615	11.615	0.1609	**0.0583**	0.0000	-0.1026	0.1609
19 Apr 22	4.786	4.786	0.0663	**0.0599**	0.0000	-0.0064	0.0663
20 Apr 22	11.535	11.535	0.1598	**0.0572**	0.0000	-0.1026	0.1598
21 Apr 22	4.757	4.757	0.0659	**0.0595**	0.0000	-0.0064	0.0659
22 Apr 22	11.766	11.766	0.1630	**0.0604**	0.0000	-0.1026	0.1630
23 Apr 22	2.114	2.114	0.0293	**0.1191**	0.0898	0.0000	0.1191
24 Apr 22	1.969	1.969	0.0273	**0.1171**	0.0898	0.0000	0.1171
25 Apr 22	1.724	1.724	0.0239	**0.1137**	0.0898	0.0000	0.1137
26 Apr 22	0.000	0.000	0.0000	**0.1150**	0.1150	0.0000	0.1150
27 Apr 22	1.558	1.558	0.0216	**0.1114**	0.0898	0.0000	0.1114
28 Apr 22	0.000	0.000	0.0000	**0.0593**	0.0593	0.0000	0.0593
29 Apr 22	5.002	5.002	0.0693	**0.0629**	0.0000	-0.0064	0.0693
30 Apr 22	11.499	11.499	0.1593	**0.0567**	0.0000	-0.1026	0.1593

1 May 22	4.537	4.537	0.0629	**0.0577**	0.0000	-0.0052	0.0629
2 May 22	4.934	4.934	0.0684	**0.0632**	0.0000	-0.0052	0.0684
3 May 22	18.802	18.802	0.2605	**0.0629**	0.0000	-0.1976	0.2605
4 May 22	46.493	46.493	0.6442	**0.0617**	0.0000	-0.5825	0.6442
5 May 22	41.206	41.206	0.5710	**0.1809**	0.0000	-0.3901	0.5710
6 May 22	12.858	12.858	0.1782	**0.1730**	0.0000	-0.0052	0.1782
7 May 22	7.335	7.335	0.1016	**0.1927**	0.0911	0.0000	0.1927
8 May 22	19.839	19.839	0.2749	**0.1735**	0.0000	-0.1014	0.2749
9 May 22	7.357	7.357	0.1019	**0.1930**	0.0911	0.0000	0.1930
10 May 22	12.230	12.230	0.1695	**0.1643**	0.0000	-0.0052	0.1695
11 May 22	27.498	27.498	0.3810	**0.1834**	0.0000	-0.1976	0.3810
12 May 22	99.697	99.697	1.3815	**0.3178**	0.0000	-1.0637	1.3815
13 May 22	24.855	24.855	0.3444	**0.5317**	0.1873	0.0000	0.5317
14 May 22	6.987	6.987	0.0968	**0.9577**	0.8609	0.0000	0.9577
15 May 22	10.119	10.119	0.1402	**1.0011**	0.8609	0.0000	1.0011
16 May 22	20.306	20.306	0.2814	**0.9498**	0.6684	0.0000	0.9498
17 May 22	21.988	21.988	0.3047	**0.9731**	0.6684	0.0000	0.9731
18 May 22	19.649	19.649	0.2723	**0.9407**	0.6684	0.0000	0.9407
19 May 22	46.064	46.064	0.6383	**0.8737**	0.2354	0.0000	0.8737
20 May 22	41.183	41.183	0.5707	**0.8662**	0.2955	0.0000	0.8662
21 May 22	32.128	32.128	0.4452	**0.8610**	0.4158	0.0000	0.8610
22 May 22	34.242	34.242	0.4745	**0.8302**	0.3557	0.0000	0.8302
23 May 22	24.850	24.850	0.3443	**0.5196**	0.1753	0.0000	0.5196
24 May 22	15.267	15.267	0.2115	**0.3868**	0.1753	0.0000	0.3868
25 May 22	29.337	29.337	0.4065	**0.3412**	0.0000	-0.0653	0.4065
26 May 22	34.206	34.206	0.4740	**0.1681**	0.0000	-0.3059	0.4740
27 May 22	16.034	16.034	0.2222	**0.2170**	0.0000	-0.0052	0.2222
28 May 22	26.044	26.044	0.3609	**0.4760**	0.1151	0.0000	0.4760
29 May 22	24.947	24.947	0.3457	**0.4608**	0.1151	0.0000	0.4608
30 May 22	24.526	24.526	0.3399	**0.2144**	0.0000	-0.1255	0.3399
31 May 22	25.101	25.101	0.3478	**0.2825**	0.0000	-0.0653	0.3478
1 Jun 22	117.602	117.602	1.6296	**0.4794**	0.0000	-1.1502	1.6296
2 Jun 22	40.377	40.377	0.5595	**0.6723**	0.1128	0.0000	0.6723
3 Jun 22	72.107	72.107	0.9992	**0.8714**	0.0000	-0.1278	0.9992
4 Jun 22	50.371	50.371	0.6980	**0.9311**	0.2331	0.0000	0.9311
5 Jun 22	31.817	31.817	0.4409	**0.9747**	0.5338	0.0000	0.9747
6 Jun 22	26.424	26.424	0.3662	**0.9000**	0.5338	0.0000	0.9000

7 Jun 22	37.594	37.594	0.5209	**0.6337**	0.1128	0.0000	0.6337
8 Jun 22	41.865	41.865	0.5801	**0.2118**	0.0000	-0.3683	0.5801
9 Jun 22	34.472	34.472	0.4777	**0.5905**	0.1128	0.0000	0.5905
10 Jun 22	56.808	56.808	0.7872	**0.5391**	0.0000	-0.2481	0.7872
11 Jun 22	38.011	38.011	0.5267	**0.5192**	0.0000	-0.0075	0.5267
12 Jun 22	38.192	38.192	0.5292	**0.5217**	0.0000	-0.0075	0.5292
13 Jun 22	23.230	23.230	0.3219	**0.5550**	0.2331	0.0000	0.5550
14 Jun 22	32.246	32.246	0.4468	**0.4995**	0.0527	0.0000	0.4995
15 Jun 22	40.441	40.441	0.5604	**0.2522**	0.0000	-0.3082	0.5604
16 Jun 22	81.188	81.188	1.1250	**0.5161**	0.0000	-0.6089	1.1250
17 Jun 22	66.956	66.956	0.9278	**0.7399**	0.0000	-0.1879	0.9278
18 Jun 22	48.219	48.219	0.6682	**1.0215**	0.3534	0.0000	1.0215
19 Jun 22	69.453	69.453	0.9624	**1.0151**	0.0527	0.0000	1.0151
20 Jun 22	52.260	52.260	0.7242	**1.0174**	0.2932	0.0000	1.0174
21 Jun 22	110.528	110.528	1.5316	**1.1031**	0.0000	-0.4285	1.5316
22 Jun 22	216.843	129.900	1.8000	**0.3510**	0.0000	-1.4490	1.8000
23 Jun 22	291.163	129.900	1.8000	**1.2365**	0.0000	-0.5635	1.8000
24 Jun 22	176.373	129.900	1.8000	**1.2818**	0.0000	-0.5183	1.8000
25 Jun 22	177.913	129.900	1.8000	**1.3031**	0.0000	-0.4969	1.8000
26 Jun 22	123.607	123.607	1.7128	**1.3204**	0.0000	-0.3924	1.7128
27 Jun 22	89.296	89.296	1.2374	**1.3261**	0.0887	0.0000	1.3261
28 Jun 22	68.109	68.109	0.9438	**1.3212**	0.3774	0.0000	1.3212
29 Jun 22	50.980	50.980	0.7064	**1.2763**	0.5699	0.0000	1.2763
30 Jun 22	38.794	38.794	0.5376	**1.2999**	0.7623	0.0000	1.2999
1 Jul 22	50.263	50.263	0.6965	**1.2635**	0.5670	0.0000	1.2635
2 Jul 22	141.832	129.900	1.8000	**1.2814**	0.0000	-0.5186	1.8000
3 Jul 22	149.773	129.900	1.8000	**1.2952**	0.0000	-0.5048	1.8000
4 Jul 22	206.887	129.900	1.8000	**1.3168**	0.0000	-0.4832	1.8000
5 Jul 22	166.981	129.900	1.8000	**1.3412**	0.0000	-0.4588	1.8000
6 Jul 22	126.520	126.520	1.7532	**1.3579**	0.0000	-0.3953	1.7532
7 Jul 22	106.105	106.105	1.4703	**1.3637**	0.0000	-0.1066	1.4703
8 Jul 22	189.907	129.900	1.8000	**1.3702**	0.0000	-0.4298	1.8000
9 Jul 22	121.884	121.884	1.6889	**1.3899**	0.0000	-0.2990	1.6889
10 Jul 22	115.424	115.424	1.5994	**1.3966**	0.0000	-0.2028	1.5994
11 Jul 22	115.633	115.633	1.6023	**1.3995**	0.0000	-0.2028	1.6023
12 Jul 22	95.168	95.168	1.3187	**1.4046**	0.0859	0.0000	1.4046
13 Jul 22	79.287	79.287	1.0987	**1.3770**	0.2783	0.0000	1.3770

14 Jul 22	57.660	57.660	0.7990	**1.3660**	0.5670	0.0000	1.3660
15 Jul 22	42.169	42.169	0.5843	**1.3438**	0.7595	0.0000	1.3438
16 Jul 22	36.689	36.689	0.5084	**1.3641**	0.8557	0.0000	1.3641
17 Jul 22	42.479	42.479	0.5886	**1.3481**	0.7595	0.0000	1.3481
18 Jul 22	41.425	41.425	0.5740	**1.3335**	0.7595	0.0000	1.3335
19 Jul 22	19.377	19.377	0.2685	**1.3167**	1.0482	0.0000	1.3167
20 Jul 22	10.913	10.913	0.1512	**1.2956**	1.1444	0.0000	1.2956
21 Jul 22	100.187	100.187	1.3883	**1.2817**	0.0000	-0.1066	1.3883
22 Jul 22	79.130	79.130	1.0965	**1.2786**	0.1821	0.0000	1.2786
23 Jul 22	100.131	100.131	1.3875	**1.1847**	0.0000	-0.2028	1.3875
24 Jul 22	72.287	72.287	1.0017	**1.2800**	0.2783	0.0000	1.2800
25 Jul 22	106.735	106.735	1.4790	**1.2762**	0.0000	-0.2028	1.4790
26 Jul 22	113.203	113.203	1.5686	**1.2696**	0.0000	-0.2990	1.5686
27 Jul 22	114.538	114.538	1.5871	**1.2881**	0.0000	-0.2990	1.5871
28 Jul 22	93.863	93.863	1.3006	**1.2903**	0.0000	-0.0103	1.3006
29 Jul 22	86.811	86.811	1.2029	**1.2888**	0.0859	0.0000	1.2888
30 Jul 22	107.738	107.738	1.4929	**1.2901**	0.0000	-0.2028	1.4929
31 Jul 22	93.993	93.993	1.3024	**1.2921**	0.0000	-0.0103	1.3024
1 Aug 22	66.323	66.323	0.9190	**1.2910**	0.3720	0.0000	1.2910
2 Aug 22	58.852	58.852	0.8155	**1.2837**	0.4682	0.0000	1.2837
3 Aug 22	92.195	92.195	1.2775	**1.2646**	0.0000	-0.0129	1.2775
4 Aug 22	106.990	106.990	1.4825	**1.0847**	0.0000	-0.3978	1.4825
5 Aug 22	149.891	129.900	1.8000	**1.1018**	0.0000	-0.6982	1.8000
6 Aug 22	178.682	129.900	1.8000	**1.3083**	0.0000	-0.4917	1.8000
7 Aug 22	121.359	121.359	1.6816	**1.2838**	0.0000	-0.3978	1.6816
8 Aug 22	104.436	104.436	1.4471	**1.0493**	0.0000	-0.3978	1.4471
9 Aug 22	75.987	75.987	1.0529	**1.0400**	0.0000	-0.0129	1.0529
10 Aug 22	77.161	77.161	1.0692	**0.6714**	0.0000	-0.3978	1.0692
11 Aug 22	55.417	55.417	0.7679	**0.6587**	0.0000	-0.1092	0.7679
12 Aug 22	49.559	49.559	0.6867	**0.6738**	0.0000	-0.0129	0.6867
13 Aug 22	42.200	42.200	0.5848	**0.4756**	0.0000	-0.1092	0.5848
14 Aug 22	46.751	46.751	0.6478	**0.3462**	0.0000	-0.3016	0.6478
15 Aug 22	69.150	69.150	0.9582	**0.3679**	0.0000	-0.5903	0.9582
16 Aug 22	46.084	46.084	0.6386	**0.3370**	0.0000	-0.3016	0.6386
17 Aug 22	42.940	42.940	0.5950	**0.2934**	0.0000	-0.3016	0.5950
18 Aug 22	49.741	49.741	0.6892	**0.2914**	0.0000	-0.3978	0.6892
19 Aug 22	42.284	42.284	0.5859	**0.2843**	0.0000	-0.3016	0.5859

20 Aug 22	35.015	35.015	0.4852	**0.2798**	0.0000	-0.2054	0.4852
21 Aug 22	41.970	41.970	0.5816	**0.2800**	0.0000	-0.3016	0.5816
22 Aug 22	42.165	42.165	0.5843	**0.2827**	0.0000	-0.3016	0.5843
23 Aug 22	35.996	35.996	0.4988	**0.2934**	0.0000	-0.2054	0.4988
24 Aug 22	42.313	42.313	0.5863	**0.2847**	0.0000	-0.3016	0.5863
25 Aug 22	42.414	42.414	0.5877	**0.2861**	0.0000	-0.3016	0.5877
26 Aug 22	44.247	44.247	0.6131	**0.3115**	0.0000	-0.3016	0.6131
27 Aug 22	51.458	51.458	0.7130	**0.3152**	0.0000	-0.3978	0.7130
28 Aug 22	87.725	87.725	1.2156	**0.3366**	0.0000	-0.8790	1.2156
29 Aug 22	80.425	80.425	1.1144	**0.4279**	0.0000	-0.6865	1.1144
30 Aug 22	64.233	64.233	0.8901	**0.6847**	0.0000	-0.2054	0.8901
31 Aug 22	50.672	50.672	0.7022	**0.6892**	0.0000	-0.0129	0.7022
1 Sep 22	58.043	58.043	0.8043	**0.6968**	0.0000	-0.1075	0.8043
2 Sep 22	40.735	40.735	0.5645	**0.6495**	0.0850	0.0000	0.6495
3 Sep 22	48.365	48.365	0.6702	**0.5627**	0.0000	-0.1075	0.6702
4 Sep 22	38.268	38.268	0.5303	**0.5190**	0.0000	-0.0112	0.5303
5 Sep 22	45.573	45.573	0.6315	**0.5240**	0.0000	-0.1075	0.6315
6 Sep 22	64.777	64.777	0.8976	**0.5015**	0.0000	-0.3961	0.8976
7 Sep 22	69.011	69.011	0.9563	**0.3677**	0.0000	-0.5886	0.9563
8 Sep 22	53.569	53.569	0.7423	**0.5386**	0.0000	-0.2037	0.7423
9 Sep 22	51.569	51.569	0.7146	**0.5109**	0.0000	-0.2037	0.7146
10 Sep 22	39.438	39.438	0.5465	**0.5353**	0.0000	-0.0112	0.5465
11 Sep 22	61.100	61.100	0.8467	**0.4505**	0.0000	-0.3961	0.8467
12 Sep 22	81.040	81.040	1.1230	**0.4381**	0.0000	-0.6848	1.1230
13 Sep 22	150.119	129.900	1.8000	**0.6255**	0.0000	-1.1745	1.8000
14 Sep 22	217.680	129.900	1.8000	**0.6957**	0.0000	-1.1043	1.8000
15 Sep 22	180.541	129.900	1.8000	**1.1433**	0.0000	-0.6567	1.8000
16 Sep 22	127.204	127.204	1.7626	**1.5269**	0.0000	-0.2358	1.7626
17 Sep 22	93.898	93.898	1.3011	**1.6267**	0.3256	0.0000	1.6267
18 Sep 22	92.852	92.852	1.2866	**1.6122**	0.3256	0.0000	1.6122
19 Sep 22	69.937	69.937	0.9691	**1.5192**	0.5501	0.0000	1.5192
20 Sep 22	58.479	58.479	0.8103	**1.4727**	0.6624	0.0000	1.4727
21 Sep 22	90.376	90.376	1.2523	**1.5779**	0.3256	0.0000	1.5779
22 Sep 22	74.267	74.267	1.0291	**1.5792**	0.5501	0.0000	1.5792
23 Sep 22	63.009	63.009	0.8731	**1.2628**	0.3897	0.0000	1.2628
24 Sep 22	148.633	129.900	1.8000	**1.0861**	0.0000	-0.7139	1.8000
25 Sep 22	130.080	129.900	1.8000	**1.3422**	0.0000	-0.4578	1.8000

26 Sep 22	131.340	129.900	1.8000	**1.2474**	0.0000	-0.5526	1.8000
27 Sep 22	118.774	118.774	1.6458	**1.2978**	0.0000	-0.3480	1.6458
28 Sep 22	99.921	99.921	1.3846	**1.2611**	0.0000	-0.1235	1.3846
29 Sep 22	89.479	89.479	1.2399	**1.1164**	0.0000	-0.1235	1.2399
30 Sep 22	59.797	59.797	0.8286	**1.0419**	0.2133	0.0000	1.0419
1 Oct 22	8.849	8.849	0.1226	**0.9542**	0.8315	0.0000	0.9542
2 Oct 22	55.017	55.017	0.7624	**0.6398**	0.0000	-0.1226	0.7624
3 Oct 22	51.071	51.071	0.7077	**0.8096**	0.1019	0.0000	0.8096
4 Oct 22	71.400	71.400	0.9894	**0.7545**	0.0000	-0.2349	0.9894
5 Oct 22	63.378	63.378	0.8782	**0.7556**	0.0000	-0.1226	0.8782
6 Oct 22	47.689	47.689	0.6608	**0.7627**	0.1019	0.0000	0.7627
7 Oct 22	54.429	54.429	0.7542	**0.7439**	0.0000	-0.0103	0.7542
8 Oct 22	70.361	70.361	0.9750	**0.7401**	0.0000	-0.2349	0.9750
9 Oct 22	75.133	75.133	1.0411	**0.5817**	0.0000	-0.4594	1.0411
10 Oct 22	52.182	52.182	0.7231	**0.4882**	0.0000	-0.2349	0.7231
11 Oct 22	50.421	50.421	0.6987	**0.4638**	0.0000	-0.2349	0.6987
12 Oct 22	44.954	44.954	0.6229	**0.5003**	0.0000	-0.1226	0.6229
13 Oct 22	34.095	34.095	0.4724	**0.4621**	0.0000	-0.0103	0.4724
14 Oct 22	52.778	52.778	0.7313	**0.4291**	0.0000	-0.3022	0.7313
15 Oct 22	31.353	31.353	0.4344	**0.4241**	0.0000	-0.0103	0.4344
16 Oct 22	29.808	29.808	0.4130	**0.4027**	0.0000	-0.0103	0.4130
17 Oct 22	34.604	34.604	0.4795	**0.4018**	0.0000	-0.0777	0.4795
18 Oct 22	38.466	38.466	0.5330	**0.4104**	0.0000	-0.1226	0.5330
19 Oct 22	31.609	31.609	0.4380	**0.4052**	0.0000	-0.0328	0.4380
20 Oct 22	19.804	19.804	0.2744	**0.4437**	0.1693	0.0000	0.4437
21 Oct 22	25.822	25.822	0.3578	**0.4373**	0.0795	0.0000	0.4373
22 Oct 22	24.774	24.774	0.3433	**0.4452**	0.1019	0.0000	0.4452
23 Oct 22	32.382	32.382	0.4487	**0.4384**	0.0000	-0.0103	0.4487
24 Oct 22	44.567	44.567	0.6176	**0.4950**	0.0000	-0.1226	0.6176
25 Oct 22	80.471	80.471	1.1151	**0.5434**	0.0000	-0.5717	1.1151
26 Oct 22	86.163	86.163	1.1939	**0.8468**	0.0000	-0.3471	1.1939
27 Oct 22	54.311	54.311	0.7526	**1.2811**	0.5285	0.0000	1.2811
28 Oct 22	45.425	45.425	0.6294	**1.3376**	0.7082	0.0000	1.3376
29 Oct 22	33.512	33.512	0.4644	**1.3297**	0.8653	0.0000	1.3297
30 Oct 22	26.548	26.548	0.3679	**1.2332**	0.8653	0.0000	1.2332
31 Oct 22	53.286	53.286	0.7384	**1.2220**	0.4836	0.0000	1.2220
1 Nov 22	23.170	23.170	0.3211	**0.0003**	0.0000	-0.3208	0.3211

2 Nov 22	23.148	23.148	0.3208	**0.0000**	0.0000	-0.3208	0.3208
3 Nov 22	34.491	34.491	0.4779	**0.0000**	0.0000	-0.4779	0.4779
4 Nov 22	29.142	29.142	0.4038	**0.2851**	0.0000	-0.1187	0.4038
5 Nov 22	0.866	0.866	0.0120	**0.3312**	0.3192	0.0000	0.3312
6 Nov 22	21.019	21.019	0.2913	**0.2736**	0.0000	-0.0176	0.2913
7 Nov 22	29.681	29.681	0.4113	**0.2746**	0.0000	-0.1366	0.4113
8 Nov 22	1.653	1.653	0.0229	**0.2612**	0.2383	0.0000	0.2612
9 Nov 22	23.657	23.657	0.3278	**0.2653**	0.0000	-0.0625	0.3278
10 Nov 22	0.000	0.000	0.0000	**0.2494**	0.2494	0.0000	0.2494
11 Nov 22	27.352	27.352	0.3790	**0.2491**	0.0000	-0.1299	0.3790
12 Nov 22	19.776	19.776	0.2740	**0.2564**	0.0000	-0.0176	0.2740
13 Nov 22	6.408	6.408	0.0888	**0.2553**	0.1665	0.0000	0.2553
14 Nov 22	18.727	18.727	0.2595	**0.2419**	0.0000	-0.0176	0.2595
15 Nov 22	11.700	11.700	0.1621	**0.2253**	0.0632	0.0000	0.2253
16 Nov 22	13.218	13.218	0.1832	**0.2149**	0.0318	0.0000	0.2149
17 Nov 22	2.857	2.857	0.0396	**0.2128**	0.1732	0.0000	0.2128
18 Nov 22	18.354	18.354	0.2543	**0.2064**	0.0000	-0.0479	0.2543
19 Nov 22	7.227	7.227	0.1001	**0.2060**	0.1059	0.0000	0.2060
20 Nov 22	11.150	11.150	0.1545	**0.2020**	0.0475	0.0000	0.2020
21 Nov 22	9.790	9.790	0.1357	**0.1966**	0.0609	0.0000	0.1966
22 Nov 22	0.295	0.295	0.0041	**0.1953**	0.1912	0.0000	0.1953
23 Nov 22	17.408	17.408	0.2412	**0.1966**	0.0000	-0.0446	0.2412
24 Nov 22	7.041	7.041	0.0976	**0.1944**	0.0969	0.0000	0.1944
25 Nov 22	10.000	10.000	0.1386	**0.1838**	0.0452	0.0000	0.1838
26 Nov 22	5.143	5.143	0.0713	**0.1816**	0.1103	0.0000	0.1816
27 Nov 22	9.857	9.857	0.1366	**0.1818**	0.0452	0.0000	0.1818
28 Nov 22	4.208	4.208	0.0583	**0.1799**	0.1216	0.0000	0.1799
29 Nov 22	9.434	9.434	0.1307	**0.1782**	0.0475	0.0000	0.1782
30 Nov 22	0.114	0.114	0.0016	**0.2197**	0.2181	0.0000	0.2197
1 Dec 22	11.954	11.954	0.1656	**0.2059**	0.0403	0.0000	0.2059
2 Dec 22	2.571	2.571	0.0356	**0.2106**	0.1750	0.0000	0.2106
3 Dec 22	3.611	3.611	0.0500	**0.2026**	0.1525	0.0000	0.2026
4 Dec 22	13.134	13.134	0.1820	**0.2158**	0.0338	0.0000	0.2158
5 Dec 22	0.000	0.000	0.0000	**0.2021**	0.2021	0.0000	0.2021
6 Dec 22	12.236	12.236	0.1696	**0.2034**	0.0338	0.0000	0.2034
7 Dec 22	2.500	2.500	0.0346	**0.2032**	0.1686	0.0000	0.2032
8 Dec 22	9.445	9.445	0.1309	**0.2013**	0.0704	0.0000	0.2013

9 Dec 22	0.848	0.848	0.0118	**0.1996**	0.1878	0.0000	0.1996
10 Dec 22	8.943	8.943	0.1239	**0.1963**	0.0723	0.0000	0.1963
11 Dec 22	0.000	0.000	0.0000	**0.1961**	0.1961	0.0000	0.1961
12 Dec 22	11.745	11.745	0.1627	**0.1966**	0.0338	0.0000	0.1966
13 Dec 22	6.310	6.310	0.0874	**0.1983**	0.1108	0.0000	0.1983
14 Dec 22	0.000	0.000	0.0000	**0.1966**	0.1966	0.0000	0.1966
15 Dec 22	22.879	22.879	0.3170	**0.1969**	0.0000	-0.1201	0.3170
16 Dec 22	4.809	4.809	0.0666	**0.1967**	0.1301	0.0000	0.1967
17 Dec 22	3.362	3.362	0.0466	**0.1959**	0.1493	0.0000	0.1959
18 Dec 22	3.499	3.499	0.0485	**0.1978**	0.1493	0.0000	0.1978
19 Dec 22	4.848	4.848	0.0672	**0.3127**	0.2455	0.0000	0.3127
20 Dec 22	0.000	0.000	0.0000	**0.1947**	0.1947	0.0000	0.1947
21 Dec 22	4.565	4.565	0.0633	**0.1933**	0.1301	0.0000	0.1933
22 Dec 22	1.836	1.836	0.0254	**0.1940**	0.1686	0.0000	0.1940
23 Dec 22	0.000	0.000	0.0000	**0.1919**	0.1919	0.0000	0.1919
24 Dec 22	10.314	10.314	0.1429	**0.1960**	0.0531	0.0000	0.1960
25 Dec 22	2.010	2.010	0.0278	**0.1964**	0.1686	0.0000	0.1964
26 Dec 22	7.493	7.493	0.1038	**0.1954**	0.0916	0.0000	0.1954
27 Dec 22	4.809	4.809	0.0666	**0.1967**	0.1301	0.0000	0.1967
28 Dec 22	7.399	7.399	0.1025	**0.1941**	0.0916	0.0000	0.1941
29 Dec 22	3.521	3.521	0.0488	**0.1981**	0.1493	0.0000	0.1981
30 Dec 22	3.297	3.297	0.0457	**0.1950**	0.1493	0.0000	0.1950
31 Dec 22	1.844	1.844	0.0255	**0.1941**	0.1686	0.0000	0.1941
1 Jan 23	0.000	0.000	0.0000	**0.1909**	0.1909	0.0000	0.1909
2 Jan 23	4.447	4.447	0.0616	**0.1922**	0.1306	0.0000	0.1922
3 Jan 23	0.535	0.535	0.0074	**0.1957**	0.1883	0.0000	0.1957
4 Jan 23	0.386	0.386	0.0054	**0.1937**	0.1883	0.0000	0.1937
5 Jan 23	5.958	5.958	0.0826	**0.1939**	0.1113	0.0000	0.1939
6 Jan 23	0.000	0.000	0.0000	**0.1924**	0.1924	0.0000	0.1924
7 Jan 23	1.892	1.892	0.0262	**0.1953**	0.1691	0.0000	0.1953
8 Jan 23	5.980	5.980	0.0829	**0.1942**	0.1113	0.0000	0.1942
9 Jan 23	5.156	5.156	0.0714	**0.1327**	0.0613	0.0000	0.1327
10 Jan 23	0.903	0.903	0.0125	**0.1354**	0.1229	0.0000	0.1354
11 Jan 23	2.944	2.944	0.0408	**0.1329**	0.0921	0.0000	0.1329
12 Jan 23	3.035	3.035	0.0421	**0.1342**	0.0921	0.0000	0.1342
13 Jan 23	2.841	2.841	0.0394	**0.1315**	0.0921	0.0000	0.1315
14 Jan 23	0.000	0.000	0.0000	**0.1290**	0.1290	0.0000	0.1290

15 Jan 23	2.885	2.885	0.0400	**0.1321**	0.0921	0.0000	0.1321
16 Jan 23	2.649	2.649	0.0367	**0.1288**	0.0921	0.0000	0.1288
17 Jan 23	2.740	2.740	0.0380	**0.1301**	0.0921	0.0000	0.1301
18 Jan 23	2.617	2.617	0.0363	**0.1284**	0.0921	0.0000	0.1284
19 Jan 23	3.008	3.008	0.0417	**0.1338**	0.0921	0.0000	0.1338
20 Jan 23	2.741	2.741	0.0380	**0.1301**	0.0921	0.0000	0.1301
21 Jan 23	0.000	0.000	0.0000	**0.1323**	0.1323	0.0000	0.1323
22 Jan 23	0.000	0.000	0.0000	**0.1347**	0.1347	0.0000	0.1347
23 Jan 23	0.000	0.000	0.0000	**0.1325**	0.1325	0.0000	0.1325
24 Jan 23	3.003	3.003	0.0416	**0.1337**	0.0921	0.0000	0.1337
25 Jan 23	2.885	2.885	0.0400	**0.1321**	0.0921	0.0000	0.1321
26 Jan 23	2.953	2.953	0.0409	**0.1330**	0.0921	0.0000	0.1330
27 Jan 23	1.569	1.569	0.0217	**0.1138**	0.0921	0.0000	0.1138
28 Jan 23	0.278	0.278	0.0039	**0.1922**	0.1883	0.0000	0.1922
29 Jan 23	0.000	0.000	0.0000	**0.1842**	0.1842	0.0000	0.1842
30 Jan 23	0.000	0.000	0.0000	**0.1830**	0.1830	0.0000	0.1830
31 Jan 23	0.000	0.000	0.0000	**0.1862**	0.1862	0.0000	0.1862
1 Feb 23	0.281	0.281	0.0039	**0.1901**	0.1862	0.0000	0.1901
2 Feb 23	0.000	0.000	0.0000	**0.1838**	0.1838	0.0000	0.1838
3 Feb 23	0.000	0.000	0.0000	**0.1825**	0.1825	0.0000	0.1825
4 Feb 23	0.000	0.000	0.0000	**0.1838**	0.1838	0.0000	0.1838
5 Feb 23	0.000	0.000	0.0000	**0.1825**	0.1825	0.0000	0.1825
6 Feb 23	0.000	0.000	0.0000	**0.1356**	0.1356	0.0000	0.1356
7 Feb 23	0.000	0.000	0.0000	**0.1424**	0.1424	0.0000	0.1424
8 Feb 23	0.000	0.000	0.0000	**0.1468**	0.1468	0.0000	0.1468
9 Feb 23	0.000	0.000	0.0000	**0.1487**	0.1487	0.0000	0.1487
10 Feb 23	0.000	0.000	0.0000	**0.1450**	0.1450	0.0000	0.1450
11 Feb 23	0.000	0.000	0.0000	**0.1442**	0.1442	0.0000	0.1442
12 Feb 23	0.000	0.000	0.0000	**0.1379**	0.1379	0.0000	0.1379
13 Feb 23	0.000	0.000	0.0000	**0.1297**	0.1297	0.0000	0.1297
14 Feb 23	2.704	2.704	0.0375	**0.1274**	0.0899	0.0000	0.1274
15 Feb 23	0.000	0.000	0.0000	**0.1308**	0.1308	0.0000	0.1308
16 Feb 23	2.841	2.841	0.0394	**0.1293**	0.0899	0.0000	0.1293
17 Feb 23	2.986	2.986	0.0414	**0.1313**	0.0899	0.0000	0.1313
18 Feb 23	0.000	0.000	0.0000	**0.2200**	0.2200	0.0000	0.2200
19 Feb 23	0.000	0.000	0.0000	**0.1786**	0.1786	0.0000	0.1786
20 Feb 23	0.000	0.000	0.0000	**0.1740**	0.1740	0.0000	0.1740

21 Feb 23	0.000	0.000	0.0000	**0.1725**	0.1725	0.0000	0.1725
22 Feb 23	0.000	0.000	0.0000	**0.1733**	0.1733	0.0000	0.1733
23 Feb 23	0.000	0.000	0.0000	**0.1766**	0.1766	0.0000	0.1766
24 Feb 23	0.000	0.000	0.0000	**0.1779**	0.1779	0.0000	0.1779
25 Feb 23	0.000	0.000	0.0000	**0.1733**	0.1733	0.0000	0.1733
26 Feb 23	0.000	0.000	0.0000	**0.1728**	0.1728	0.0000	0.1728
27 Feb 23	0.000	0.000	0.0000	**0.1681**	0.1681	0.0000	0.1681
28 Feb 23	0.000	0.000	0.0000	**0.1683**	0.1683	0.0000	0.1683
			0.0000	**0.0000**	0.0000	0.0000	0.0000
1 Mar 23	0.000	0.000	0.0000	**0.1655**	0.1655	0.0000	0.1655
2 Mar 23	0.000	0.000	0.0000	**0.1718**	0.1718	0.0000	0.1718
3 Mar 23	0.000	0.000	0.0000	**0.1701**	0.1701	0.0000	0.1701
4 Mar 23	0.000	0.000	0.0000	**0.1717**	0.1717	0.0000	0.1717
5 Mar 23	0.000	0.000	0.0000	**0.1627**	0.1627	0.0000	0.1627
6 Mar 23	0.000	0.000	0.0000	**0.1630**	0.1630	0.0000	0.1630
7 Mar 23	0.000	0.000	0.0000	**0.1702**	0.1702	0.0000	0.1702
8 Mar 23	0.000	0.000	0.0000	**0.1619**	0.1619	0.0000	0.1619
9 Mar 23	0.000	0.000	0.0000	**0.1105**	0.1105	0.0000	0.1105
10 Mar 23	0.000	0.000	0.0000	**0.1148**	0.1148	0.0000	0.1148
11 Mar 23	0.000	0.000	0.0000	**0.1110**	0.1110	0.0000	0.1110
12 Mar 23	0.000	0.000	0.0000	**0.1164**	0.1164	0.0000	0.1164
13 Mar 23	0.000	0.000	0.0000	**0.1139**	0.1139	0.0000	0.1139
14 Mar 23	0.000	0.000	0.0000	**0.1096**	0.1096	0.0000	0.1096
15 Mar 23	0.000	0.000	0.0000	**0.1102**	0.1102	0.0000	0.1102
16 Mar 23	0.000	0.000	0.0000	**0.1054**	0.1054	0.0000	0.1054
17 Mar 23	1.600	1.600	0.0222	**0.1081**	0.0859	0.0000	0.1081
18 Mar 23	0.000	0.000	0.0000	**0.1129**	0.1129	0.0000	0.1129

19 Mar 23	1.809	1.809	0.0251	**0.1110**	0.0859	0.0000	0.1110
20 Mar 23	1.873	1.873	0.0260	**0.1118**	0.0859	0.0000	0.1118
21 Mar 23	1.930	1.930	0.0267	**0.1126**	0.0859	0.0000	0.1126
22 Mar 23	1.682	1.682	0.0233	**0.1092**	0.0859	0.0000	0.1092
23 Mar 23	0.000	0.000	0.0000	**0.1097**	0.1097	0.0000	0.1097
24 Mar 23	0.000	0.000	0.0000	**0.1082**	0.1082	0.0000	0.1082
25 Mar 23	0.000	0.000	0.0000	**0.1083**	0.1083	0.0000	0.1083
26 Mar 23	1.582	1.582	0.0219	**0.1078**	0.0859	0.0000	0.1078
27 Mar 23	0.000	0.000	0.0000	**0.0623**	0.0623	0.0000	0.0623
28 Mar 23	0.426	0.426	0.0059	**0.0557**	0.0498	0.0000	0.0557
29 Mar 23	0.534	0.534	0.0074	**0.0572**	0.0498	0.0000	0.0572
30 Mar 23	0.260	0.260	0.0036	**0.0534**	0.0498	0.0000	0.0534
31 Mar 23	4.774	4.774	0.0661	**0.0558**	0.0000	-0.0103	0.0661
	35.9602	33.7784	170.8424	**177.34840**	46.0376	-39.5317	216.8801

DHPS	2023-24						
Date	Calculated Avg Inflow	Usefull Inflow	Possible Gen as per Inflow (MU)	**Actual Gen (MU)**	Excess Gen (MU)	Short Gen (MU)	Max of possible Gen and Actual Gen
1 Apr 23	4.572	4.572	0.0634	**0.0569**	0.0000	-0.0064	0.0634
2 Apr 23	8.064	8.064	0.1117	**0.1053**	0.0000	-0.0064	0.1117
3 Apr 23	4.803	4.803	0.0666	**0.0000**	0.0000	-0.0666	0.0666
4 Apr 23	4.803	4.803	0.0666	**0.0000**	0.0000	-0.0666	0.0666
5 Apr 23	4.803	4.803	0.0666	**0.0000**	0.0000	-0.0666	0.0666
6 Apr 23	4.803	4.803	0.0666	**0.0000**	0.0000	-0.0666	0.0666
7 Apr 23	7.407	7.407	0.1026	**0.0000**	0.0000	-0.1026	0.1026
8 Apr 23	0.463	0.463	0.0064	**0.0000**	0.0000	-0.0064	0.0064
9 Apr 23	7.407	7.407	0.1026	**0.0000**	0.0000	-0.1026	0.1026
10 Apr 23	0.463	0.463	0.0064	**0.0000**	0.0000	-0.0064	0.0064
11 Apr 23	0.000	0.000	0.0000	**0.1221**	0.1221	0.0000	0.1221
12 Apr 23	0.000	0.000	0.0000	**0.1116**	0.1116	0.0000	0.1116
13 Apr 23	0.254	0.254	0.0035	**0.0573**	0.0537	0.0000	0.0573
14 Apr 23	0.366	0.366	0.0051	**0.0588**	0.0537	0.0000	0.0588
15 Apr 23	0.261	0.261	0.0036	**0.0574**	0.0537	0.0000	0.0574
16 Apr 23	0.157	0.157	0.0022	**0.0559**	0.0537	0.0000	0.0559
17 Apr 23	0.176	0.176	0.0024	**0.0562**	0.0537	0.0000	0.0562
18 Apr 23	0.106	0.106	0.0015	**0.0552**	0.0537	0.0000	0.0552
19 Apr 23	0.294	0.294	0.0041	**0.0578**	0.0537	0.0000	0.0578
20 Apr 23	0.186	0.186	0.0026	**0.0563**	0.0537	0.0000	0.0563
21 Apr 23	0.157	0.157	0.0022	**0.0559**	0.0537	0.0000	0.0559
22 Apr 23	0.200	0.200	0.0028	**0.0565**	0.0537	0.0000	0.0565
23 Apr 23	4.597	4.597	0.0637	**0.0573**	0.0000	-0.0064	0.0637
24 Apr 23	4.382	4.382	0.0607	**0.0543**	0.0000	-0.0064	0.0607
25 Apr 23	0.300	0.300	0.0042	**0.0579**	0.0537	0.0000	0.0579
26 Apr 23	4.571	4.571	0.0633	**0.0569**	0.0000	-0.0064	0.0633
27 Apr 23	4.425	4.425	0.0613	**0.0549**	0.0000	-0.0064	0.0613
28 Apr 23	0.000	0.000	0.0000	**0.0554**	0.0554	0.0000	0.0554
29 Apr 23	0.236	0.236	0.0033	**0.0570**	0.0537	0.0000	0.0570
30 Apr 23	0.292	0.292	0.0040	**0.0578**	0.0537	0.0000	0.0578

1 May 23	0.183	0.183	0.0025	**0.0575**	0.0550	0.0000	0.0575
2 May 23	0.000	0.000	0.0000	**0.0547**	0.0547	0.0000	0.0547
3 May 23	0.089	0.089	0.0012	**0.0562**	0.0550	0.0000	0.0562
4 May 23	4.393	4.393	0.0609	**0.0557**	0.0000	-0.0052	0.0609
5 May 23	0.121	0.121	0.0017	**0.0566**	0.0550	0.0000	0.0566
6 May 23	4.693	4.693	0.0650	**0.0599**	0.0000	-0.0052	0.0650
7 May 23	0.118	0.118	0.0016	**0.0566**	0.0550	0.0000	0.0566
8 May 23	0.183	0.183	0.0025	**0.0575**	0.0550	0.0000	0.0575
9 May 23	0.031	0.031	0.0004	**0.0554**	0.0550	0.0000	0.0554
10 May 23	0.000	0.000	0.0000	**0.0532**	0.0532	0.0000	0.0532
11 May 23	0.132	0.132	0.0018	**0.0568**	0.0550	0.0000	0.0568
12 May 23	0.000	0.000	0.0000	**0.0587**	0.0587	0.0000	0.0587
13 May 23	0.086	0.086	0.0012	**0.0562**	0.0550	0.0000	0.0562
14 May 23	0.229	0.229	0.0032	**0.0581**	0.0550	0.0000	0.0581
15 May 23	0.086	0.086	0.0012	**0.0562**	0.0550	0.0000	0.0562
16 May 23	4.523	4.523	0.0627	**0.0575**	0.0000	-0.0052	0.0627
17 May 23	4.314	4.314	0.0598	**0.0546**	0.0000	-0.0052	0.0598
18 May 23	0.000	0.000	0.0000	**0.0488**	0.0488	0.0000	0.0488
19 May 23	4.249	4.249	0.0589	**0.0537**	0.0000	-0.0052	0.0589
20 May 23	4.312	4.312	0.0598	**0.0546**	0.0000	-0.0052	0.0598
21 May 23	0.024	0.024	0.0003	**0.0553**	0.0550	0.0000	0.0553
22 May 23	4.496	4.496	0.0623	**0.0571**	0.0000	-0.0052	0.0623
23 May 23	0.183	0.183	0.0025	**0.0575**	0.0550	0.0000	0.0575
24 May 23	4.278	4.278	0.0593	**0.0541**	0.0000	-0.0052	0.0593
25 May 23	4.278	4.278	0.0593	**0.0541**	0.0000	-0.0052	0.0593
26 May 23	8.659	8.659	0.1200	**0.0547**	0.0000	-0.0653	0.1200
27 May 23	8.661	8.661	0.1200	**0.0547**	0.0000	-0.0653	0.1200
28 May 23	8.625	8.625	0.1195	**0.0542**	0.0000	-0.0653	0.1195
29 May 23	0.115	0.115	0.0016	**0.0566**	0.0550	0.0000	0.0566
30 May 23	8.690	8.690	0.1204	**0.0551**	0.0000	-0.0653	0.1204
31 May 23	0.178	0.178	0.0025	**0.0574**	0.0550	0.0000	0.0574
1 Jun 23	0.270	0.270	0.0037	**0.0564**	0.0527	0.0000	0.0564
2 Jun 23	4.693	4.693	0.0650	**0.0576**	0.0000	-0.0075	0.0650
3 Jun 23	0.321	0.321	0.0044	**0.0571**	0.0527	0.0000	0.0571
4 Jun 23	0.191	0.191	0.0026	**0.0553**	0.0527	0.0000	0.0553
5 Jun 23	0.230	0.230	0.0032	**0.0559**	0.0527	0.0000	0.0559
6 Jun 23	0.111	0.111	0.0015	**0.0542**	0.0527	0.0000	0.0542

7 Jun 23	4.502	4.502	0.0624	**0.0549**	0.0000	-0.0075	0.0624
8 Jun 23	9.019	9.019	0.1250	**0.0574**	0.0000	-0.0676	0.1250
9 Jun 23	4.665	4.665	0.0646	**0.0572**	0.0000	-0.0075	0.0646
10 Jun 23	9.018	9.018	0.1250	**0.0573**	0.0000	-0.0676	0.1250
11 Jun 23	22.059	22.059	0.3057	**0.0576**	0.0000	-0.2481	0.3057
12 Jun 23	25.720	25.720	0.3564	**0.1084**	0.0000	-0.2481	0.3564
13 Jun 23	33.142	33.142	0.4592	**0.2112**	0.0000	-0.2481	0.4592
14 Jun 23	16.352	16.352	0.2266	**0.2191**	0.0000	-0.0075	0.2266
15 Jun 23	17.381	17.381	0.2408	**0.2334**	0.0000	-0.0075	0.2408
16 Jun 23	18.759	18.759	0.2599	**0.2525**	0.0000	-0.0075	0.2599
17 Jun 23	24.375	24.375	0.3378	**0.2701**	0.0000	-0.0676	0.3378
18 Jun 23	34.297	34.297	0.4753	**0.2873**	0.0000	-0.1879	0.4753
19 Jun 23	30.193	30.193	0.4184	**0.4109**	0.0000	-0.0075	0.4184
20 Jun 23	22.662	22.662	0.3140	**0.3667**	0.0527	0.0000	0.3667
21 Jun 23	11.633	11.633	0.1612	**0.2139**	0.0527	0.0000	0.2139
22 Jun 23	25.618	25.618	0.3550	**0.1671**	0.0000	-0.1879	0.3550
23 Jun 23	25.695	25.695	0.3561	**0.1681**	0.0000	-0.1879	0.3561
24 Jun 23	22.395	22.395	0.3103	**0.1826**	0.0000	-0.1278	0.3103
25 Jun 23	39.863	39.863	0.5524	**0.1840**	0.0000	-0.3683	0.5524
26 Jun 23	51.389	51.389	0.7121	**0.2836**	0.0000	-0.4285	0.7121
27 Jun 23	98.340	98.340	1.3627	**0.2125**	0.0000	-1.1502	1.3627
28 Jun 23	107.311	107.311	1.4870	**0.2285**	0.0000	-1.2584	1.4870
29 Jun 23	107.081	107.081	1.4838	**0.2254**	0.0000	-1.2584	1.4838
30 Jun 23	58.280	58.280	0.8076	**0.2227**	0.0000	-0.5849	0.8076
1 Jul 23	58.300	58.300	0.8079	**0.2201**	0.0000	-0.5877	0.8079
2 Jul 23	34.712	34.712	0.4810	**0.2782**	0.0000	-0.2028	0.4810
3 Jul 23	41.635	41.635	0.5769	**0.2779**	0.0000	-0.2990	0.5769
4 Jul 23	34.619	34.619	0.4797	**0.2769**	0.0000	-0.2028	0.4797
5 Jul 23	64.421	64.421	0.8927	**0.3050**	0.0000	-0.5877	0.8927
6 Jul 23	269.745	129.900	1.8000	**0.3595**	0.0000	-1.4405	1.8000
7 Jul 23	126.971	126.971	1.7594	**0.5943**	0.0000	-1.1651	1.7594
8 Jul 23	92.992	92.992	1.2886	**0.8933**	0.0000	-0.3953	1.2886
9 Jul 23	75.437	75.437	1.0453	**0.8425**	0.0000	-0.2028	1.0453
10 Jul 23	51.291	51.291	0.7107	**0.8928**	0.1821	0.0000	0.8928
11 Jul 23	45.569	45.569	0.6314	**0.9098**	0.2783	0.0000	0.9098
12 Jul 23	38.387	38.387	0.5319	**0.9065**	0.3746	0.0000	0.9065
13 Jul 23	13.497	13.497	0.1870	**0.8503**	0.6632	0.0000	0.8503

14 Jul 23	53.950	53.950	0.7476	**0.7372**	0.0000	-0.0103	0.7476
15 Jul 23	135.037	129.900	1.8000	**0.8023**	0.0000	-0.9977	1.8000
16 Jul 23	300.498	129.900	1.8000	**0.9781**	0.0000	-0.8219	1.8000
17 Jul 23	180.700	129.900	1.8000	**1.3389**	0.0000	-0.4612	1.8000
18 Jul 23	102.128	102.128	1.4152	**1.5011**	0.0859	0.0000	1.5011
19 Jul 23	74.026	74.026	1.0258	**1.4966**	0.4708	0.0000	1.4966
20 Jul 23	115.432	115.432	1.5995	**1.4930**	0.0000	-0.1066	1.5995
21 Jul 23	80.450	80.450	1.1148	**1.4894**	0.3746	0.0000	1.4894
22 Jul 23	58.803	58.803	0.8148	**1.4781**	0.6632	0.0000	1.4781
23 Jul 23	148.768	129.900	1.8000	**1.4737**	0.0000	-0.3263	1.8000
24 Jul 23	198.410	129.900	1.8000	**1.4880**	0.0000	-0.3120	1.8000
25 Jul 23	158.410	129.900	1.8000	**1.5111**	0.0000	-0.2889	1.8000
26 Jul 23	131.397	129.900	1.8000	**1.5217**	0.0000	-0.2783	1.8000
27 Jul 23	90.090	90.090	1.2484	**1.5267**	0.2783	0.0000	1.5267
28 Jul 23	82.842	82.842	1.1479	**1.5225**	0.3746	0.0000	1.5225
29 Jul 23	66.341	66.341	0.9193	**1.4863**	0.5670	0.0000	1.4863
30 Jul 23	52.970	52.970	0.7340	**1.4935**	0.7595	0.0000	1.4935
31 Jul 23	65.465	65.465	0.9071	**1.4742**	0.5670	0.0000	1.4742
1 Aug 23	86.090	86.090	1.1929	**1.4687**	0.2757	0.0000	1.4687
2 Aug 23	50.099	50.099	0.6942	**1.4511**	0.7569	0.0000	1.4511
3 Aug 23	175.567	129.900	1.8000	**1.4576**	0.0000	-0.3424	1.8000
4 Aug 23	267.454	129.900	1.8000	**1.4799**	0.0000	-0.3201	1.8000
5 Aug 23	194.357	129.900	1.8000	**1.5255**	0.0000	-0.2745	1.8000
6 Aug 23	147.195	129.900	1.8000	**1.5456**	0.0000	-0.2544	1.8000
7 Aug 23	455.249	129.900	1.8000	**1.5802**	0.0000	-0.2198	1.8000
8 Aug 23	380.186	129.900	1.8000	**1.6627**	0.0000	-0.1373	1.8000
9 Aug 23	254.346	129.900	1.8000	**1.7152**	0.0000	-0.0848	1.8000
10 Aug 23	327.337	129.900	1.8000	**1.7348**	0.0000	-0.0652	1.8000
11 Aug 23	234.345	129.900	1.8000	**1.7410**	0.0000	-0.0590	1.8000
12 Aug 23	198.469	129.900	1.8000	**1.7385**	0.0000	-0.0615	1.8000
13 Aug 23	157.006	129.900	1.8000	**1.7207**	0.0000	-0.0793	1.8000
14 Aug 23	175.663	129.900	1.8000	**1.7422**	0.0000	-0.0578	1.8000
15 Aug 23	151.571	129.900	1.8000	**1.7567**	0.0000	-0.0433	1.8000
16 Aug 23	186.346	129.900	1.8000	**1.7536**	0.0000	-0.0464	1.8000
17 Aug 23	186.691	129.900	1.8000	**1.8055**	0.0055	0.0000	1.8055
18 Aug 23	182.007	129.900	1.8000	**1.7581**	0.0000	-0.0419	1.8000
19 Aug 23	176.580	129.900	1.8000	**1.7633**	0.0000	-0.0367	1.8000

20 Aug 23	111.478	111.478	1.5447	**1.7531**	0.2084	0.0000	1.7531
21 Aug 23	132.686	129.900	1.8000	**1.7565**	0.0000	-0.0435	1.8000
22 Aug 23	141.672	129.900	1.8000	**1.7205**	0.0000	-0.0795	1.8000
23 Aug 23	118.584	118.584	1.6432	**1.7563**	0.1131	0.0000	1.7563
24 Aug 23	109.042	109.042	1.5110	**1.7557**	0.2447	0.0000	1.7557
25 Aug 23	143.584	129.900	1.8000	**1.7522**	0.0000	-0.0478	1.8000
26 Aug 23	168.460	129.900	1.8000	**1.7601**	0.0000	-0.0399	1.8000
27 Aug 23	135.579	129.900	1.8000	**1.7535**	0.0000	-0.0465	1.8000
28 Aug 23	119.649	119.649	1.6579	**1.7573**	0.0993	0.0000	1.7573
29 Aug 23	87.741	87.741	1.2158	**1.7642**	0.5484	0.0000	1.7642
30 Aug 23	86.885	86.885	1.2039	**1.7523**	0.5484	0.0000	1.7523
31 Aug 23	142.393	129.900	1.8000	**1.7357**	0.0000	-0.0643	1.8000
1 Sep 23	94.597	94.597	1.3108	**1.7487**	0.4378	0.0000	1.7487
2 Sep 23	73.704	73.704	1.0213	**1.6837**	0.6624	0.0000	1.6837
3 Sep 23	73.248	73.248	1.0150	**1.0038**	0.0000	-0.0112	1.0150
4 Sep 23	37.179	37.179	0.5152	**0.8408**	0.3256	0.0000	0.8408
5 Sep 23	68.000	68.000	0.9423	**0.7065**	0.0000	-0.2358	0.9423
6 Sep 23	34.751	34.751	0.4815	**0.4703**	0.0000	-0.0112	0.4815
7 Sep 23	39.441	39.441	0.5465	**0.4230**	0.0000	-0.1235	0.5465
8 Sep 23	52.070	52.070	0.7215	**0.4858**	0.0000	-0.2358	0.7215
9 Sep 23	104.268	104.268	1.4448	**0.5355**	0.0000	-0.9094	1.4448
10 Sep 23	44.887	44.887	0.6220	**0.8353**	0.2133	0.0000	0.8353
11 Sep 23	83.683	83.683	1.1596	**1.7097**	0.5501	0.0000	1.7097
12 Sep 23	92.618	92.618	1.2834	**1.7212**	0.4378	0.0000	1.7212
13 Sep 23	108.356	108.356	1.5015	**1.7148**	0.2133	0.0000	1.7148
14 Sep 23	51.099	51.099	0.7081	**1.7072**	0.9992	0.0000	1.7072
15 Sep 23	82.780	82.780	1.1471	**1.4726**	0.3256	0.0000	1.4726
16 Sep 23	74.334	74.334	1.0300	**1.2433**	0.2133	0.0000	1.2433
17 Sep 23	64.967	64.967	0.9002	**0.8890**	0.0000	-0.0112	0.9002
18 Sep 23	48.662	48.662	0.6743	**0.8876**	0.2133	0.0000	0.8876
19 Sep 23	54.919	54.919	0.7610	**0.8620**	0.1010	0.0000	0.8620
20 Sep 23	112.683	112.683	1.5614	**0.8766**	0.0000	-0.6848	1.5614
21 Sep 23	95.047	95.047	1.3170	**0.9690**	0.0000	-0.3480	1.3170
22 Sep 23	93.322	93.322	1.2931	**1.2819**	0.0000	-0.0112	1.2931
23 Sep 23	76.859	76.859	1.0650	**1.2783**	0.2133	0.0000	1.2783
24 Sep 23	76.691	76.691	1.0627	**1.2760**	0.2133	0.0000	1.2760
25 Sep 23	76.896	76.896	1.0655	**1.2788**	0.2133	0.0000	1.2788

26 Sep 23	60.823	60.823	0.8428	**1.2807**	0.4378	0.0000	1.2807
27 Sep 23	60.276	60.276	0.8352	**1.2731**	0.4378	0.0000	1.2731
28 Sep 23	59.142	59.142	0.8195	**1.2574**	0.4378	0.0000	1.2574
29 Sep 23	56.859	56.859	0.7879	**0.8889**	0.1010	0.0000	0.8889
30 Sep 23	48.950	48.950	0.6783	**0.8916**	0.2133	0.0000	0.8916
1 Oct 23	48.607	48.607	0.6735	**0.8877**	0.2142	0.0000	0.8877
2 Oct 23	48.740	48.740	0.6754	**0.8896**	0.2142	0.0000	0.8896
3 Oct 23	64.481	64.481	0.8935	**0.8832**	0.0000	-0.0103	0.8935
4 Oct 23	27.380	27.380	0.3794	**0.8181**	0.4387	0.0000	0.8181
5 Oct 23	36.287	36.287	0.5028	**0.8293**	0.3265	0.0000	0.8293
6 Oct 23	44.695	44.695	0.6193	**0.8335**	0.2142	0.0000	0.8335
7 Oct 23	44.202	44.202	0.6125	**0.8267**	0.2142	0.0000	0.8267
8 Oct 23	30.933	30.933	0.4286	**0.7551**	0.3265	0.0000	0.7551
9 Oct 23	56.226	56.226	0.7791	**0.7688**	0.0000	-0.0103	0.7791
10 Oct 23	23.693	23.693	0.3283	**0.7670**	0.4387	0.0000	0.7670
11 Oct 23	31.499	31.499	0.4365	**0.7629**	0.3265	0.0000	0.7629
12 Oct 23	30.608	30.608	0.4241	**0.7506**	0.3265	0.0000	0.7506
13 Oct 23	31.904	31.904	0.4421	**0.7685**	0.3265	0.0000	0.7685
14 Oct 23	31.987	31.987	0.4432	**0.5452**	0.1019	0.0000	0.5452
15 Oct 23	25.419	25.419	0.3522	**0.5343**	0.1821	0.0000	0.5343
16 Oct 23	21.344	21.344	0.2958	**0.5741**	0.2783	0.0000	0.5741
17 Oct 23	20.839	20.839	0.2888	**0.5671**	0.2783	0.0000	0.5671
18 Oct 23	20.933	20.933	0.2901	**0.4722**	0.1821	0.0000	0.4722
19 Oct 23	18.305	18.305	0.2537	**0.4358**	0.1821	0.0000	0.4358
20 Oct 23	14.229	14.229	0.1972	**0.3793**	0.1821	0.0000	0.3793
21 Oct 23	11.609	11.609	0.1609	**0.3430**	0.1821	0.0000	0.3430
22 Oct 23	16.351	16.351	0.2266	**0.3125**	0.0859	0.0000	0.3125
23 Oct 23	5.664	5.664	0.0785	**0.2606**	0.1821	0.0000	0.2606
24 Oct 23	15.236	15.236	0.2111	**0.2008**	0.0000	-0.0103	0.2111
25 Oct 23	22.371	22.371	0.3100	**0.2034**	0.0000	-0.1066	0.3100
26 Oct 23	29.729	29.729	0.4120	**0.2092**	0.0000	-0.2028	0.4120
27 Oct 23	22.901	22.901	0.3173	**0.2108**	0.0000	-0.1066	0.3173
28 Oct 23	15.586	15.586	0.2160	**0.2056**	0.0000	-0.0103	0.2160
29 Oct 23	15.770	15.770	0.2185	**0.2082**	0.0000	-0.0103	0.2185
30 Oct 23	15.825	15.825	0.2193	**0.2089**	0.0000	-0.0103	0.2193
31 Oct 23	8.578	8.578	0.1189	**0.2047**	0.0859	0.0000	0.2047
1 Nov 23	15.386	15.386	0.2132	**0.2068**	0.0000	-0.0064	0.2132

2 Nov 23	8.339	8.339	0.1155	**0.2054**	0.0898	0.0000	0.2054
3 Nov 23	15.573	15.573	0.2158	**0.2094**	0.0000	-0.0064	0.2158
4 Nov 23	8.515	8.515	0.1180	**0.2078**	0.0898	0.0000	0.2078
5 Nov 23	15.180	15.180	0.2103	**0.2039**	0.0000	-0.0064	0.2103
6 Nov 23	8.287	8.287	0.1148	**0.2047**	0.0898	0.0000	0.2047
7 Nov 23	15.137	15.137	0.2097	**0.2033**	0.0000	-0.0064	0.2097
8 Nov 23	8.010	8.010	0.1110	**0.2008**	0.0898	0.0000	0.2008
9 Nov 23	8.235	8.235	0.1141	**0.2039**	0.0898	0.0000	0.2039
10 Nov 23	8.206	8.206	0.1137	**0.2035**	0.0898	0.0000	0.2035
11 Nov 23	7.966	7.966	0.1104	**0.2002**	0.0898	0.0000	0.2002
12 Nov 23	0.819	0.819	0.0113	**0.1974**	0.1860	0.0000	0.1974
13 Nov 23	8.126	8.126	0.1126	**0.2024**	0.0898	0.0000	0.2024
14 Nov 23	7.966	7.966	0.1104	**0.2002**	0.0898	0.0000	0.2002
15 Nov 23	8.146	8.146	0.1129	**0.2027**	0.0898	0.0000	0.2027
16 Nov 23	1.333	1.333	0.0185	**0.2045**	0.1860	0.0000	0.2045
17 Nov 23	8.357	8.357	0.1158	**0.2056**	0.0898	0.0000	0.2056
18 Nov 23	8.382	8.382	0.1161	**0.2060**	0.0898	0.0000	0.2060
19 Nov 23	8.364	8.364	0.1159	**0.2057**	0.0898	0.0000	0.2057
20 Nov 23	8.408	8.408	0.1165	**0.2063**	0.0898	0.0000	0.2063
21 Nov 23	15.541	15.541	0.2153	**0.2089**	0.0000	-0.0064	0.2153
22 Nov 23	16.138	16.138	0.2236	**0.2172**	0.0000	-0.0064	0.2236
23 Nov 23	17.721	17.721	0.2456	**0.0467**	0.0000	-0.1989	0.2456
24 Nov 23	21.365	21.365	0.2961	**0.2896**	0.0000	-0.0064	0.2961
25 Nov 23	22.302	22.302	0.3090	**0.3026**	0.0000	-0.0064	0.3090
26 Nov 23	15.863	15.863	0.2198	**0.3096**	0.0898	0.0000	0.3096
27 Nov 23	8.822	8.822	0.1222	**0.3083**	0.1860	0.0000	0.3083
28 Nov 23	0.981	0.981	0.0136	**0.2959**	0.2823	0.0000	0.2959
29 Nov 23	0.000	0.000	0.0000	**0.2079**	0.2079	0.0000	0.2079
30 Nov 23	7.848	7.848	0.1087	**0.1986**	0.0898	0.0000	0.1986
1 Dec 23	0.911	0.911	0.0126	**0.2004**	0.1878	0.0000	0.2004
2 Dec 23	0.809	0.809	0.0112	**0.1990**	0.1878	0.0000	0.1990
3 Dec 23	7.483	7.483	0.1037	**0.1953**	0.0916	0.0000	0.1953
4 Dec 23	10.092	10.092	0.1398	**0.1929**	0.0531	0.0000	0.1929
5 Dec 23	0.000	0.000	0.0000	**0.1956**	0.1956	0.0000	0.1956
6 Dec 23	0.000	0.000	0.0000	**0.1932**	0.1932	0.0000	0.1932
7 Dec 23	7.454	7.454	0.1033	**0.1949**	0.0916	0.0000	0.1949
8 Dec 23	28.422	28.422	0.3938	**0.1967**	0.0000	-0.1971	0.3938

9 Dec 23	14.392	14.392	0.1994	**0.1948**	0.0000	-0.0047	0.1994
10 Dec 23	10.384	10.384	0.1439	**0.1970**	0.0531	0.0000	0.1970
11 Dec 23	11.518	11.518	0.1596	**0.1934**	0.0338	0.0000	0.1934
12 Dec 23	7.252	7.252	0.1005	**0.1921**	0.0916	0.0000	0.1921
13 Dec 23	2.946	2.946	0.0408	**0.1324**	0.0916	0.0000	0.1324
14 Dec 23	7.371	7.371	0.1021	**0.1937**	0.0916	0.0000	0.1937
15 Dec 23	7.421	7.421	0.1028	**0.1944**	0.0916	0.0000	0.1944
16 Dec 23	7.451	7.451	0.1032	**0.1948**	0.0916	0.0000	0.1948
17 Dec 23	7.407	7.407	0.1026	**0.1942**	0.0916	0.0000	0.1942
18 Dec 23	6.613	6.613	0.0916	**0.1832**	0.0916	0.0000	0.1832
19 Dec 23	0.219	0.219	0.0030	**0.1908**	0.1878	0.0000	0.1908
20 Dec 23	0.282	0.282	0.0039	**0.1917**	0.1878	0.0000	0.1917
21 Dec 23	0.100	0.100	0.0014	**0.1892**	0.1878	0.0000	0.1892
22 Dec 23	0.052	0.052	0.0007	**0.1885**	0.1878	0.0000	0.1885
23 Dec 23	0.155	0.155	0.0022	**0.1900**	0.1878	0.0000	0.1900
24 Dec 23	7.196	7.196	0.0997	**0.1913**	0.0916	0.0000	0.1913
25 Dec 23	7.110	7.110	0.0985	**0.1901**	0.0916	0.0000	0.1901
26 Dec 23	0.279	0.279	0.0039	**0.1917**	0.1878	0.0000	0.1917
27 Dec 23	7.124	7.124	0.0987	**0.1903**	0.0916	0.0000	0.1903
28 Dec 23	0.201	0.201	0.0028	**0.1906**	0.1878	0.0000	0.1906
29 Dec 23	0.000	0.000	0.0000	**0.1855**	0.1855	0.0000	0.1855
30 Dec 23	0.099	0.099	0.0014	**0.1892**	0.1878	0.0000	0.1892
31 Dec 23	0.000	0.000	0.0000	**0.1834**	0.1834	0.0000	0.1834
1 Jan 24	0.000	0.000	0.0000	**0.1875**	0.1875	0.0000	0.1875
2 Jan 24	0.000	0.000	0.0000	**0.1883**	0.1883	0.0000	0.1883
3 Jan 24	0.000	0.000	0.0000	**0.1868**	0.1868	0.0000	0.1868
4 Jan 24	0.000	0.000	0.0000	**0.1863**	0.1863	0.0000	0.1863
5 Jan 24	0.000	0.000	0.0000	**0.1866**	0.1866	0.0000	0.1866
6 Jan 24	6.922	6.922	0.0959	**0.1880**	0.0921	0.0000	0.1880
7 Jan 24	0.000	0.000	0.0000	**0.1840**	0.1840	0.0000	0.1840
8 Jan 24	0.000	0.000	0.0000	**0.1370**	0.1370	0.0000	0.1370
9 Jan 24	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270
10 Jan 24	2.447	2.447	0.0339	**0.1260**	0.0921	0.0000	0.1260
11 Jan 24	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270
12 Jan 24	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270
13 Jan 24	2.447	2.447	0.0339	**0.1260**	0.0921	0.0000	0.1260
14 Jan 24	2.519	2.519	0.0349	**0.1270**	0.0921	0.0000	0.1270

15 Jan 24	2.664	2.664	0.0369	**0.1290**	0.0921	0.0000	0.1290
16 Jan 24	2.664	2.664	0.0369	**0.1290**	0.0921	0.0000	0.1290
17 Jan 24	0.000	0.000	0.0000	**0.1300**	0.1300	0.0000	0.1300
18 Jan 24	2.447	2.447	0.0339	**0.1260**	0.0921	0.0000	0.1260
19 Jan 24	0.000	0.000	0.0000	**0.1240**	0.1240	0.0000	0.1240
20 Jan 24	0.000	0.000	0.0000	**0.1948**	0.1948	0.0000	0.1948
21 Jan 24	0.000	0.000	0.0000	**0.1792**	0.1792	0.0000	0.1792
22 Jan 24	0.000	0.000	0.0000	**0.1780**	0.1780	0.0000	0.1780
23 Jan 24	0.000	0.000	0.0000	**0.1770**	0.1770	0.0000	0.1770
24 Jan 24	0.000	0.000	0.0000	**0.1790**	0.1790	0.0000	0.1790
25 Jan 24	0.000	0.000	0.0000	**0.1760**	0.1760	0.0000	0.1760
26 Jan 24	0.000	0.000	0.0000	**0.1760**	0.1760	0.0000	0.1760
27 Jan 24	0.000	0.000	0.0000	**0.1230**	0.1230	0.0000	0.1230
28 Jan 24	0.000	0.000	0.0000	**0.1250**	0.1250	0.0000	0.1250
29 Jan 24	0.000	0.000	0.0000	**0.1260**	0.1260	0.0000	0.1260
30 Jan 24	0.000	0.000	0.0000	**0.1244**	0.1244	0.0000	0.1244
31 Jan 24	0.000	0.000	0.0000	**0.1217**	0.1217	0.0000	0.1217
1 Feb 24	2.675	2.675	0.0371	**0.1270**	0.0899	0.0000	0.1270
2 Feb 24	2.459	2.459	0.0341	**0.1240**	0.0899	0.0000	0.1240
3 Feb 24	2.531	2.531	0.0351	**0.1250**	0.0899	0.0000	0.1250
4 Feb 24	2.459	2.459	0.0341	**0.1240**	0.0899	0.0000	0.1240
5 Feb 24	0.000	0.000	0.0000	**0.1240**	0.1240	0.0000	0.1240
6 Feb 24	2.264	2.264	0.0314	**0.1213**	0.0899	0.0000	0.1213
7 Feb 24	0.000	0.000	0.0000	**0.1227**	0.1227	0.0000	0.1227
8 Feb 24	0.000	0.000	0.0000	**0.1830**	0.1830	0.0000	0.1830
9 Feb 24	0.000	0.000	0.0000	**0.1740**	0.1740	0.0000	0.1740
10 Feb 24	0.000	0.000	0.0000	**0.1750**	0.1750	0.0000	0.1750
11 Feb 24	0.000	0.000	0.0000	**0.1690**	0.1690	0.0000	0.1690
12 Feb 24	0.000	0.000	0.0000	**0.1713**	0.1713	0.0000	0.1713
13 Feb 24	0.000	0.000	0.0000	**0.1717**	0.1717	0.0000	0.1717
14 Feb 24	0.000	0.000	0.0000	**0.1170**	0.1170	0.0000	0.1170
15 Feb 24	0.000	0.000	0.0000	**0.1170**	0.1170	0.0000	0.1170
16 Feb 24	0.000	0.000	0.0000	**0.1170**	0.1170	0.0000	0.1170
17 Feb 24	0.000	0.000	0.0000	**0.0620**	0.0620	0.0000	0.0620
18 Feb 24	0.000	0.000	0.0000	**0.0620**	0.0620	0.0000	0.0620
19 Feb 24	0.000	0.000	0.0000	**0.0620**	0.0620	0.0000	0.0620
20 Feb 24	4.857	4.857	0.0673	**0.0610**	0.0000	-0.0063	0.0673

21 Feb 24	0.000	0.000	0.0000	**0.0620**	0.0620	0.0000	0.0620
22 Feb 24	0.000	0.000	0.0000	**0.0610**	0.0610	0.0000	0.0610
23 Feb 24	4.929	4.929	0.0683	**0.0620**	0.0000	-0.0063	0.0683
24 Feb 24	11.657	11.657	0.1615	**0.0590**	0.0000	-0.1025	0.1615
25 Feb 24	11.801	11.801	0.1635	**0.0610**	0.0000	-0.1025	0.1635
26 Feb 24	5.506	5.506	0.0763	**0.0700**	0.0000	-0.0063	0.0763
27 Feb 24	0.000	0.000	0.0000	**0.0620**	0.0620	0.0000	0.0620
28 Feb 24	4.496	4.496	0.0623	**0.0560**	0.0000	-0.0063	0.0623
29 Feb 24	0.000	0.000	0.0000	**0.0630**	0.0630	0.0000	0.0630
1 Mar 24	0.000	0.000	0.0000	**0.0608**	0.0608	0.0000	0.0608
2 Mar 24	2.375	2.375	0.0329	**0.1188**	0.0859	0.0000	0.1188
3 Mar 24	2.462	2.462	0.0341	**0.1200**	0.0859	0.0000	0.1200
4 Mar 24	0.000	0.000	0.0000	**0.1143**	0.1143	0.0000	0.1143
5 Mar 24	0.000	0.000	0.0000	**0.0580**	0.0580	0.0000	0.0580
6 Mar 24	0.000	0.000	0.0000	**0.0607**	0.0607	0.0000	0.0607
7 Mar 24	0.000	0.000	0.0000	**0.0590**	0.0590	0.0000	0.0590
8 Mar 24	0.000	0.000	0.0000	**0.0601**	0.0601	0.0000	0.0601
9 Mar 24	0.000	0.000	0.0000	**0.0590**	0.0590	0.0000	0.0590
10 Mar 24	0.000	0.000	0.0000	**0.0610**	0.0610	0.0000	0.0610
11 Mar 24	5.121	5.121	0.0710	**0.0606**	0.0000	-0.0103	0.0710
12 Mar 24	0.000	0.000	0.0000	**0.0600**	0.0600	0.0000	0.0600
13 Mar 24	0.000	0.000	0.0000	**0.0606**	0.0606	0.0000	0.0606
14 Mar 24	5.413	5.413	0.0750	**0.0647**	0.0000	-0.0103	0.0750
15 Mar 24	0.000	0.000	0.0000	**0.0634**	0.0634	0.0000	0.0634
16 Mar 24	0.000	0.000	0.0000	**0.0643**	0.0643	0.0000	0.0643
17 Mar 24	5.291	5.291	0.0733	**0.0630**	0.0000	-0.0103	0.0733
18 Mar 24	0.000	0.000	0.0000	**0.0630**	0.0630	0.0000	0.0630
19 Mar 24	5.293	5.293	0.0733	**0.0630**	0.0000	-0.0103	0.0733
20 Mar 24	0.000	0.000	0.0000	**0.0640**	0.0640	0.0000	0.0640
21 Mar 24	0.000	0.000	0.0000	**0.0636**	0.0636	0.0000	0.0636
22 Mar 24	10.108	10.108	0.1401	**0.0630**	0.0000	-0.0771	0.1401
23 Mar 24	5.440	5.440	0.0754	**0.0650**	0.0000	-0.0103	0.0754
24 Mar 24	5.077	5.077	0.0703	**0.0600**	0.0000	-0.0103	0.0703
25 Mar 24	0.000	0.000	0.0000	**0.0613**	0.0613	0.0000	0.0613
26 Mar 24	5.438	5.438	0.0753	**0.0650**	0.0000	-0.0103	0.0753
27 Mar 24	5.438	5.438	0.0753	**0.0650**	0.0000	-0.0103	0.0753
28 Mar 24	6.105	6.105	0.0846	**0.0743**	0.0000	-0.0103	0.0846

29 Mar 24	0.000	0.000	0.0000	**0.0738**	0.0738	0.0000	0.0738
30 Mar 24	5.943	5.943	0.0824	**0.0720**	0.0000	-0.0104	0.0824
31 Mar 24	6.087	6.087	0.0843	**0.0740**	0.0000	-0.0103	0.0843
	35.7313	29.6908	150.5796	**165.44882**	37.5057	-22.6365	188.0853

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
ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

NEEPCO/ED(Comm)/APDCL/2024-25/65 Dated: 30/04/2024

To,

The Chief General Manager (F & A)
Assam Power Distribution Company Ltd, Bijulee Bhawan.
Paltan Bazar,
GUWAHATI-781001

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- Bill No. NEEPCO/ASSA/2023-2024/1302/SUPP/01Dated 30/04/2024.

Dear Sir,

Enclosed please find herewith shortfall energy bill for Rs. 40,59,45,657.00 (Rupees Forty Crore Fifty Nine Lakh Forty Five Thousand Six Hundred Fifty Seven Only) calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.
Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For NEEPCO LTD. Shillong

30/4/24

Authorised Signatory

NEEPCO/ED(Comm)/APDCL/2024-25/ Dated: 30/04/2024

COPY FOR INFORMATION FORWARDED TO: -

1. *General Manager(Comm) Tariff. Assam Power Distribution Company Ltd, Bijulee Bhawan Paltan Bazar, Guwahati-781001*

30/4/24

Authorised Signatory

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग - 793 003
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स नं./Fax No. : 0364-2225035
वेबसाईट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U40101ML1976GOI001658

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

Invoice No: NEEPCO/ASSA/2024-2025/1100/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
Other Ref :

From :
RANGANADI HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.,
YAZALI, ARUNACHAL PRADESH.
GST IN/UIN : 12AAACN9991J4Z0

To :
The Chief General Manager (F & A)
Assam Power Distribution Company Ltd,
Bijulee Bhawan,
Paltan Bazar,
GUWAHATI-781001
GST IN/UIN : 18AABCL1354J1ZJ

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2021-22	27160000	0%	37447637		1.343	50292176.0(
	b) Shortfall of Energy FY 2023-24	27160000	0%	26824577		1.403	37634882.0(
	TOTAL						87927058.0(

Total Amount Payable : 87927058.0(

Amount Payable (in words) : Rupees Eight Crore SeventyNine Lakh TwentySeven Thousand FiftyEight Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Comm), NEEPCO Ltd
Shillong

Authorised Signatory

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

Invoice No: NEEPCO/ASSA/2024-2025/1600/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref :
Other Ref : _____

From :	To :
DOYANG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION Ltd., WOKHA DISTRICT, NAGALAND GST IN/UIN : 13AAACN9991J1Z1	The Chief General Manager (F & A) Assam Power Distribution Company Ltd, Bijulee Bhawan, Paltan Bazar, GUWAHATI-781001 GST IN/UIN : 18AABCL1354J1ZJ

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2019-20	27160000	0%	2648481		3.077	8149376.00
	b) Shortfall of Energy FY 2021-22	27160000	0%	39863703		3.265	130154990.00
	c) Shortfall of Energy FY 2022-23	27160000	0%	3411431		3.375	11513580.00
	d) Shortfall of Energy FY 2023-24	27160000	0%	16278820		3.486	56747967.00
	TOTAL						206565913.00

Total Amount Payable :	206565913.00

Amount Payable (in words) :	Rupees Twenty Crore SixtyFive Lakh SixtyFive Thousand Nine Hundred Thirteen Only

E & OE

For NEEPCO Limited

Authorised Signatory

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

Invoice No NEEPCO/ASSA/2024-2025/1400/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
REA Letter No :

From :	To :
KAMENG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION LtD., KIMI WEST KAMENG DISTRICT, ARUNACHAL PRADESH, 790114. GST IN/UIN : 12AAACN9991J3Z1	The Chief General Manager (F & A) Assam Power Distribution Company Ltd, Bijulee Bhawan, Paltan Bazar, GUWAHATI-781001 GST IN/UIN : 18AABCL1354JIZJ

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
1	Sale of Electricity :-						
	a) Shortfall of Energy FY 2021-22	27160000	0%	14678505		2.000	29357010.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	41047838		2.000	82095676.00
	TOTAL						111452686.00

Total Amount Payable :	11,14,52,686.00
Amount Payable (in words) :	Rupees Eleven Crore Fourteen Lakh FiftyTwo Thousand Six Hundred EightySix Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Comml.), NEEPCO Ltd
Shillong
Authorised Signatory

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

ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

NEEPCO/ED(Comm)/ArP/2024-25/ 63 Dated: 30/04/2024.

To

Executive Engineer (IT)
Department of Power
Govt. of Arunachal Pradesh
Arunachal Pradesh, Itanagar,
PIN: 791 111.

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- Bill No. NEEPCO/ARUN/2023-2024/1302/SUPP/01Dated 30/04/2024.

Dear Sir,

Enclosed please find herewith shortfall energy bill for **Rs. 6,42,89,417.00 (Rupees Six Crore Forty Two Lakh Eighty Nine Thousand Four Hundred Seventeen Only)** calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.
Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For **NEEPCO LTD. Shillong**

Authorised Signatory

NEEPCO/ED(Comm)/ArP/2024-25/ **Dated: 30/04/2024**

COPY FOR INFORMATION FORWARDED TO: -

1. Executive Engineer (Electrical), Capital Electrical Division, Deptt. Of power, C-Sector, Itanagar-791111, A. Pradesh.

Authorised Signator

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

Invoice No: NEEPCO/ARUN/2024-2025/1100/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
Other Ref :

From :
RANGANADI HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION Ltd.,
YAZALI, ARUNACHAL PRADESH.
GST IN/UIN : 12AAACN9991J4Z0

To :
Executive Engineer (IT)
Department of Power ,
Govt. of Arunachal Pradesh,
Itanagar, Arunachal Pradesh - 793111.
GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2021-22	27160000	0%	5584994		1.343	7500647.0(
	b) Shortfall of Energy FY 2023-24	27160000	0%	4000656		1.403	5612920.0(
	TOTAL						13113567.0(

Total Amount Payable : 13113567.0(

Amount Payable (in words) : Rupees One Crore ThirtyOne Lakh Thirteen Thousand Five Hundred SixtySeven Only

E & OE

For NEEPCO Limited
30/4/24
Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong
Authorised Signatory

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

Invoice No: NEEPCO/ARUN/2024-2025/1600/SHRTFL/01 Bill Date : 30-Apr-24

Bill For : Shortfall of Energy for the period 2014-19. Bill Ref :

Other Ref :

From :
DOYANG HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION Ltd.,
WOKHA DISTRICT, NAGALAND
GST IN/UIN : 13AAACN9991J1Z1

To :
Executive Engineer (IT)
Department of Power ,
Govt. of Arunachal Pradesh,
Itanagar, Arunachal Pradesh - 793111.
GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2019-20	27160000	0%	414248		3.077	1274641.00
	b) Shortfall of Energy FY 2021-22	27160000	0%	6235073		3.265	20357513.00
	c) Shortfall of Energy FY 2022-23	27160000	0%	533581		3.375	1800636.00
	d) Shortfall of Energy FY 2023-24	27160000	0%	2546167		3.486	8875938.00
	TOTAL						32308928.00

Total Amount Payable : 32308928.00

Amount Payable (in words) : Rupees Three Crore TwentyThree Lakh Eight Thousand Nine Hundred TwentyEight Only

E & OE

For NEEPCO Limited

30/4/24

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

Authorised Signatory

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

Invoice No NEEPCO/ARUN/2024-2025/1400/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
REA Letter No :

From :	To :
KAMENG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION LTD., KIMI WEST KAMENG DISTRICT, ARUNACHAL PRADESH, 790114. GST IN/UIN : 12AAACN9991J3Z1	Executive Engineer (IT) Department of Power , Govt. of Arunachal Pradesh, Itanagar, Arunachal Pradesh - 793111. GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
1	Sale of Electricity :-						
	a) Shortfall of Energy FY 2021-22	27160000	0%	2484805		2.000	4969610.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	6948656		2.000	13897312.00
	TOTAL						18866922.00

Total Amount Payable :	1,88,66,922.00
Amount Payable (in words) :	Rupees One Crore EightyEight Lakh SixtySix Thousand Nine Hundred TwentyTwo Only

E & OE

For NEEPCO Limited

Accounts Officer
Authorised Signatory
O/OED (Comm) 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/Comml./F-100/2024-25/ 73 **Date: 30/04/2024.**

To,

Chief Engineer (RA & PM),
Chhattisgarh State Power Distribution Company Limited (CSPDCL),
Chhattisgargh, 4th Floor, Vidyut Sewa Bhawan,
Dangania (CSEB), Raipur,
Chhattisgargh - 492013.

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- **Bill No. NEEPCO/CHAT/2024-2025/1400/SHRTFL/01 Dated 30/04/2024.**

Dear Sir,

Enclosed please find herewith shortfall energy bill for **Rs. 2,22,82,308.00 (Rupees Two Crore Twenty Two Lakh Eighty Two Thousand Three Hundred Eight Only)** calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.
Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For **NEEPCO LTD. Shillong**

Authorised Signatory.

Chief General Manager (C.)
मुख्य महाप्रबंधक (वाणिज्यिक)
O/o Executive Director (Comml)
नीपको लि., शिलांग
NEEPCO Ltd., Shillong

कारपोरेट कार्यालय : ब्रूकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स/Fax No. : 0364-2225035
वेबसाइट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U40101ML1976GOI001658

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

Invoice No NEEPCO/CHAT/2024-2025/1400/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
REA Letter No :

From :	To :
KAMENG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION LtD., KIMI WEST KAMENG DISTRICT, ARUNACHAL PRADESH, 790114. GST IN/UIN : 12AAACN9991J3Z1	Chief Engineer (RA & PM), Chhattisgarh State Power Distribution Company Limited (CSPDCL), Chhattisgargh, 4th Floor, Vidyut Sewa Bhawan, Dangania (CSEB), Raipur, Chhattisgargh - 492013. Email cecomcseb@rediffmail.com GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
1	Sale of Electricity :-						
	a) Shortfall of Energy FY 2021-22	27160000	0%	2934617		2.000	5869234.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	8206537		2.000	16413074.00
	TOTAL						22282308.00

Total Amount Payable :	2,22,82,308.00
Amount Payable (in words) :	Rupees Two Crore TwentyTwo Lakh EightyTwo Thousand Three Hundred Eight Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Commercial) NEEPCO Ltd
Shillong

R.Pal & Co.
Chartered Accountants

Membership No - 54234
Firm Registration No. 327344E
G.S.Office Complex, Ghanpur Road, Shillong, Pin- 793003 Office: ☎ 0364-2223331, E-mail :
res-Bongaigaon(Assam)

To

The Director(Finance)
NEEPCO Ltd.
Shillong

Subject: - Certification for recoverable amount on account of shortfall in energy charges.

We have examined the attached statement in Annexure-I of recoverable amount on account of shortfall in energy charges due to reasons beyond the control of the generating stations of NEEPCO with the records produced before us. We have found that the same has been prepared in accordance with the provisions of the CERC (Tariff) Regulations 2024 notified on 15th March 2024. We have found that:

1) The attached statement has been prepared based on CERC Tariff Regulations 2024 clause 66(7&8) which inter-alia allows the recovery of shortfall in energy charges (Difference between Saleable Design Energy and Saleable Scheduled Energy), during the tariff period 2019-24, for reasons beyond the control of the generating stations, after adjusting the DSM, directly from the beneficiaries in the immediate following year in six equal interest free monthly instalments subject to truing up at the end of the tariff period.

2) That the calculation of recovery of shortfall of energy charges has been made on the basis of the methodology prescribed by the CERC in its order dated 20.01.2024 on various petitions of NHPC for recovery of shortfall of energy charges of hydro stations.

For R. Pal & Co
Chartered Accountants

(RANADHIR PAL)
Proprietor
FRN: - 327344E
Membership No-54234

Place: Guwahati
Date: - 23.04.2024

UDIN: 24054234BKJEI4667SS

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Station wise break up of recoverable shortfall of energy in Rs Cr

Station	2019-20	2020-21	2021-22	2022-23	2023-24	Total
Kameng			8.17		22.86	31.03
Turial	16.53	20.64	25.34	10.28	29.28	102.07
PLHPS/Ranganadi			10.21		7.64	17.86
Doyang	1.64	0.00	26.15	2.31	11.40	41.49
Grand Total	18.17	20.64	69.88	12.59	71.18	192.46

SUMMARY OF SHORTFALL OF ENERGY FOR THE PERIOD 2019-24

Beneficiaries	TUIRIAL	PANYOR	DOYANG	KAMENG	TOTAL
Ar.Pradesh	0.00	13113567.00	32308928.00	18866922.00	**64289417.00**
ASEB	0.00	87927058.00	206565913.00	111452686.00	**405945657.00**
Manipur	0.00	16991627.00	37085486.00	0.00	**54077113.00**
MeSEB	0.00	23347507.00	54013251.00	25718268.00	**103079026.00**
Mizoram	1020707719.00	11567214.00	24755092.00	0.00	**1057030025.00**
Nagaland	0.00	10826507.00	28135925.00	15430960.00	**54393392.00**
Tripura	0.00	14808062.00	32077883.00		**46885945.00**
CSPDCL	0			22282308.00	**22282308.00**
UPPC	0			94303744.00	**94303744.00**
HPPC	0			22282308.00	**22282308.00**
	1020707719.00	**178581542.00**	**414942478.00**	**310337196.00**	**1924568935.00**

30/4/24

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

ENERGY SHORTFALL BEYOND CONTROL OF THE GENERATING STATION				
Name of the station:-**Kameng**	Unit	Year		
	Mu	2021-22	2022-23	2023-24
Maximum possible generation wrt to ava	MU	3,203.35	3,545.93	3,016.71
Design energy	MU	3,353.00	3,353.00	3,353.00
Shortfall/Excess		149.65	-192.93	336.29
Energy Loss Due To Silt Flushing	MU		0.00	0.00
Energy Loss Due To High Silt	MU		0.00	0.00
Energy Loss Due To Transmission Constra	MU		0.00	0.00
Less Schedule & URL less trading quantur	MU	4.32	3.13	2.34
Total	MU	153.98	-189.80	338.63
Ex bus energy	MU	134.14		295.01
DSM energy	MU	36.83		22.88
Net energy	MU	97.31		272.13
ECR	Rs/KwH	2.00		2.00
Net amount	Rs Cr.	8.17		22.86

30/1/24

Chief General Manager (C.)
मुख्यमहाप्रबंधक (वाणिज्यिक) का कार्यालय
O/o Executive Director (Comml)
नीपको लि., शिलांग
NEEPCO Ltd., Shillong

SUPPLEMENTARY BILL AGAINST KAMENG HYDRO ELECTRIC POWER PLANT DUE TO SHORTFALL OF ENERGY, for the year 2021-22

Beneficiaries	Original Share Allocation	Free Power	Share Allocation After Adjustment of Free Power	Saleable Sch Energy (KwH)	ECR	Amount
Ar.Pradesh	13.834	12	2.564	2484805	2.000	4969610.00
ASEB	10.834		15.144	14678505	2.000	29357011.00
MeSEB	2.500		3.494	3387139	2.000	6774278.00
Nagaland	1.500		2.097	2032283	2.000	4064567.00
CSPDCL	2.166		3.028	2934617	2.000	5869234.00
UPPC	9.167		12.814	12419961	2.000	24839922.00
HPPC	2.166		3.028	2934617	2.000	5869234.00
	42.17	12.00	42.17	40871928.3		81743856.00

SUPPLEMENTARY BILL AGAINST KAMENG HYDRO ELECTRIC POWER PLANT DUE TO SHORTFALL OF ENERGY, for the year 2023-24

Beneficiaries	Original Share Allocation	Free Power	Share Allocation After Adjustment of Free Power	Saleable Sch Energy (KwH)	ECR	Amount
Ar.Pradesh	13.834	12	2.564	6948656	2.000	13897311.00
ASEB	10.834		15.144	41047838	2.000	82095675.00
MeSEB	2.500		3.494	9471995	2.000	18943990.00
Nagaland	1.500		2.097	5683197	2.000	11366394.00
CSPDCL	2.166		3.028	8206537	2.000	16413073.00
UPPC	9.167		12.814	34731911	2.000	69463823.00
HPPC	2.166		3.028	8206537	2.000	16413073.00
	42.17	12.00	42.17	114296670		228593339.00

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

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

ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

No. NEEPCO/Comml./F-98/2024-25/ 75 **Date: 30/04/2024.**

To,

The Chief Engineer,
M/S Uttar Haryana Bill Vintan Nigam Ltd.,
Plot No: IP – 3 & 4,
Sector-14, Panchkula - 134109,

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- **Bill No. NEEPCO/HARY/2024-2025/1400/SHRTFL/01 Dated 30/04/2024.**

Dear Sir,

Enclosed please find herewith shortfall energy bill for **Rs. 2,22,82,308.00 (Rupees Two Crore Twenty-Two Lakh Eighty-Two Thousand Three Hundred Eight Only)** calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.
Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For **NEEPCO LTD. Shillong**

30/4/24

Authorised Signatory

Chief Executive Director (Comml)
नीपको लि., शिलांग
NEEPCO Ltd., Shillong

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स नं./Fax No. : 0364-2225035
वेबसाईट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U4010ML1976GOI001658

ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(मिनि रत्न, कैटेगरी-I, भारत सरकार का उपक्रम)
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
(A Mini Ratna, Category-I, A Govt. of India Enterprise)
COMMERCIAL DEPARTMENT

Invoice No NEEPCO/HARY/2024-2025/1400/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
REA Letter No :

From :
KAMENG HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION Ltd.,
KIMI WEST KAMENG DISTRICT, ARUNACHAL PRADESH, 790114.
GST IN/UIN : 12AAACN9991J3Z1

To :
The Chief Engineer,
Haryana Power Purchase Centre (HPPC),
Room No. 305, Shakti Bhawan, 2nd Floor,
Sector-6, Panchkula - 134109,
Email : cehppc@uhbvn.org.in/cehppc@gmail.com.
GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (In KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
1	Sale of Electricity :-						
	a) Shortfall of Energy FY 2021-22	27160000	0%	2934617		2.000	5869234.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	8206537		2.000	16413074.00
	TOTAL						22282308.00

Total Amount Payable :	2,22,82,308.00

Amount Payable (in words) :	Rupees Two Crore TwentyTwo Lakh EightyTwo Thousand Three Hundred Eight Only

E & OE

For NEEPCO Limited
30/4/24
Accounts Officer
O/OED (Commercial), NEEPCO Ltd
Shillong
Authorised Signatory

R.Pal & Co.
Chartered Accountants

Membership No - 54234
Firm Regn. number No- 327443E
1, Pandit e Complex, Quinton Road, Shillong, Pin- 793003 Office : ☎ +91-364-2224311, E-mail
e-mail@gmail.com

To

The Director(Finance)
NEEPCO Ltd.
Shillong

Subject: - Certification for recoverable amount on account of shortfall in energy charges.

We have examined the attached statement in Annexure-I of recoverable amount on account of shortfall in energy charges due to reasons beyond the control of the generating stations of NEEPCO with the records produced before us. We have found that the same has been prepared in accordance with the provisions of the CERC (Tariff) Regulations 2024 notified on 15th March 2024. We have found that. -

1) The attached statement has been prepared based on CERC Tariff Regulations 2024 clause 69(7&8) which inter-alia allows the recovery of shortfall in energy charges (Difference between Saleable Design Energy and Saleable Scheduled Energy) during the tariff period 2019-24, for reasons beyond the control of the generating stations, after adjusting the DSM, directly from the beneficiaries in the immediate following year in six equal interest free monthly instalments subject to truing up at the end of the tariff period.

2) That the calculation of recovery of shortfall of energy charges has been made on the basis of the methodology prescribed by the CERC in its order dated 20.01.2024 on various petitions of NHPC for recovery of shortfall of energy charges of hydro stations.

For R. Pal & Co
Chartered Accountants

(RANADHIR PAL)
Proprietor
FRN: - 327443E
Membership No-54234

Place: Guwahati
Date: - 27.04.2024

UDIN: 24054234BKBJTG6788

Station wise break up of recoverable shortfall of energy in Rs Cr

Station	2019-20	2020-21	2021-22	2022-23	2023-24	Total
Kameng			8.17		22.86	31.03
Tarial	16.53	20.64	25.34	10.28	29.28	102.07
PLHPS/Ranganadi			10.21		7.64	17.86
Doyang	1.64	0.00	26.15	2.31	11.40	41.49
Grand Total	18.17	20.64	69.88	12.59	71.18	192.46

SUMMARY OF SHORTFALL OF ENERGY FOR THE PERIOD 2019-24

Beneficiaries	TUIRIAL	PANYOR	DOYANG	KAMENG	TOTAL
Ar.Pradesh	0.00	13113567.00	32308928.00	18866922.00	**64289417.00**
ASEB	0.00	87927058.00	206565913.00	111452686.00	**405945657.00**
Manipur	0.00	16991627.00	37085486.00	0.00	**54077113.00**
MeSEB	0.00	23347507.00	54013251.00	25718268.00	**103079026.00**
Mizoram	1020707719.00	11567214.00	24755092.00	0.00	**1057030025.00**
Nagaland	0.00	10826507.00	28135925.00	15430960.00	**54393392.00**
Tripura	0.00	14808062.00	32077883.00		**46885945.00**
CSPDCL	0			22282308.00	**22282308.00**
UPPC	0			94303744.00	**94303744.00**
HPPC	0			22282308.00	**22282308.00**
	1020707719.00	**178581542.00**	**414942478.00**	**310337196.00**	**1924568935.00**

30/4/24
Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

ENERGY SHORTFALL BEYOND CONTROL OF THE GENERATING STATION				
Name of the station:-**Kameng**	Unit	Year		
	Mu	2021-22	2022-23	2023-24
Maximum possible generation wrt to ava	MU	3,203.35	3,545.93	3,016.71
Design energy	MU	3,353.00	3,353.00	3,353.00
Shortfall/Excess		149.65	-192.93	336.29
Energy Loss Due To Silt Flushing	MU		0.00	0.00
Energy Loss Due To High Silt	MU		0.00	0.00
Energy Loss Due To Transmission Constra	MU		0.00	0.00
Less Schedule & URL less trading quantur	MU	4.32	3.13	2.34
Total	MU	153.98	-189.80	338.63
Ex bus energy	MU	134.14		295.01
DSM energy	MU	36.83		22.88
Net energy	MU	97.31		272.13
ECR	Rs/KwH	2.00		2.00
Net amount	Rs Cr.	8.17		22.86

30/1/24

Chief General Manager (I.C.)
कार्यपालक निदेशक (प्रभारी) एवं मुख्यमहा
O/o Executive Director (Comml)
नीपको लि., शिलांग
NEEPCO Ltd., Shillong

SUPPLEMENTARY BILL AGAINST KAMENG HYDRO ELECTRIC POWER PLANT DUE TO SHORTFALL OF ENERGY, for the year 2021-22

Beneficiaries	Original Share Allocation	Free Power	Share Allocation After Adjustment of Free Power	Saleable Sch Energy (KwH)	ECR	Amount
Ar.Pradesh	13.834	12	2.564	2484805	2.000	4969610.00
ASEB	10.834		15.144	14678505	2.000	29357011.00
MeSEB	2.500		3.494	3387139	2.000	6774278.00
Nagaland	1.500		2.097	2032283	2.000	4064567.00
CSPDCL	2.166		3.028	2934617	2.000	5869234.00
UPPC	9.167		12.814	12419961	2.000	24839922.00
HPPC	2.166		3.028	2934617	2.000	5869234.00
	42.17	**12.00**	**42.17**	**40871928.3**		**81743856.00**

SUPPLEMENTARY BILL AGAINST KAMENG HYDRO ELECTRIC POWER PLANT DUE TO SHORTFALL OF ENERGY, for the year 2023-24

Beneficiaries	Original Share Allocation	Free Power	Share Allocation After Adjustment of Free Power	Saleable Sch Energy (KwH)	ECR	Amount
Ar.Pradesh	13.834	12	2.564	6948656	2.000	13897311.00
ASEB	10.834		15.144	41047838	2.000	82095675.00
MeSEB	2.500		3.494	9471995	2.000	18943990.00
Nagaland	1.500		2.097	5683197	2.000	11366394.00
CSPDCL	2.166		3.028	8206537	2.000	16413073.00
UPPC	9.167		12.814	34731911	2.000	69463823.00
HPPC	2.166		3.028	8206537	2.000	16413073.00
	42.17	**12.00**	**42.17**	**114296670**		**228593339.00**

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(मिनि रत्न, कैटेगरी-I, भारत सरकार का उपक्रम)
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
(A Mini Ratna, Category-I, A Govt. of India Enterprise)
COMMERCIAL DEPARTMENT

ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

NEEPCO/ED(Comm.)/Manipur/2024-25/67 Dated: 30/04/2024

To,

The Managing Director,
Manipur State Power Distribution Company,
3rd Floor, New Directorate Building, near 2nd MR Gate,
Imphal – Dimapur Road,
IMPHAL, MANIPUR - 795001.

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- Bill No. NEEPCO/MANI/2023-2024/1302/SUPP/01Dated 30/04/2024.

Dear Sir,

Enclosed please find herewith shortfall energy bill for **Rs. 5,40,77,113.00 (Rupees Five Crore Forty Lakh Seventy Seven Thousand One Hundred Thirteen Only)** calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.
Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For **NEEPCO LTD. Shillong**

30/4/24

Authorised Sighatory.

Chief General Manager (C)
मुख्य महाप्रबंधक (वाणिज्यिक)
Chief Executive Director (Comml)
नीपको लि., शिलांग
NEEPCO Ltd., Shillong

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स न./Fax No. : 0364-2225035
वेबसाइट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN U40101ML1976GOI001658

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

Invoice No: NEEPCO/MANI/2024-2025/1100/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
Other Ref :

From :
RANGANADI HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.,
YAZALI, ARUNACHAL PRADESH.
GST IN/UIN : 12AAACN9991J4Z0

To :
The Managing Director,
Manipur State Power Distribution Company,
3rd Floor, New Directorate Building, near 2nd MR Gate,
Imphal – Dimapur Road,
IMPHAL, MANIPUR - 795001.
GST IN/UIN : 14AAJCM1435DIZX

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2021-22	27160000	0%	7236638		1.343	9718805.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	5183765		1.403	7272822.00
	TOTAL						16991627.00

Total Amount Payable : 16991627.00

Amount Payable (in words) : Rupees One Crore SixtyNine Lakh NinetyOne Thousand Six Hundred TwentySeven Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong
Authorised Signatory

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स नं./Fax No. : 0364-2225035
वेबसाइट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U40101ML1976GOI001658

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

Invoice No: NEEPCO/MANI/2024-2025/1600/SHRTFL/01 Bill Date : 30-Apr-24
Bill For : Shortfall of Energy for the period 2014-19. Bill Ref :
Other Ref :

From :	To :
DOYANG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION Ltd., WOKHA DISTRICT, NAGALAND GST IN/UIN : 13AAACN9991J1Z1	The Managing Director, Manipur State Power Distribution Company, 3rd Floor, New Directorate Building, near 2nd MR Gate, Imphal – Dimapur Road, IMPHAL, MANIPUR - 795001. GST IN/UIN : 14AAJCM1435D1ZX

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2019-20	27160000	0%	475491		3.077	1463086.00
	b) Shortfall of Energy FY 2021-22	27160000	0%	7156867		3.265	23367171.00
	c) Shortfall of Energy FY 2022-23	27160000	0%	612466		3.375	2067073.00
	d) Shortfall of Energy FY 2023-24	27160000	0%	2922592		3.486	10188156.00
	TOTAL						37085486.00

Total Amount Payable :	37085486.00

Amount Payable (in words) :	Rupees Three Crore Seventy Lakh EightyFive Thousand Four Hundred EightySix Only

E & OE

For NEEPCO Limited

Accounts Officer
Authorised Signatory
O/OED (Comml) NEEPCO Ltd
Shillong

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स नं./Fax No. : 0364-2225035
वेबसाइट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U40101ML1976GOI001658

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
ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

NEEPCO/ED (Comm)/MeECL/2024-25/ 61 **Dated: 30/04/2024**

To,

The Chief Accounts Officer
Meghalaya Energy Corporation Ltd.
Short Round Road, Shillong,
MEGHALAYA-793001

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- Bill No. NEEPCO/MEGH/2023-2024/1302/SUPP/01Dated 30/04/2024.

Dear Sir,

Enclosed please find herewith shortfall energy bill for Rs. 10,30,79,026.00 **(Rupees Ten Crore Thirty Lakh Seventy Nine Thousand Twenty Six Only)** calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.
Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For **NEEPCO LTD. Shillong**

30/4/24

Authorised Signatory.

NEEPCO/ED (Comm)/MeECL/2024-25/ **Dated: 30/04/2024**

COPY FOR INFORMATION FORWARDED TO: -

1. *The Director (Distribution) Me.E.C.Ltd, Lumjingshai, Short Round Road, Shillong-793001.*

Authorised Signatory.

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

Invoice No: NEEPCO/MEGH/2024-2025/1100/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
Other Ref :

From :
RANGANADI HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION LtD.,
YAZALI, ARUNACHAL PRADESH.
GST IN/UIN : 12AAACN9991J4Z0

To :
The Chief Accounts Officer,
Meghalaya Energy Corporation Ltd,
Short Round Road, Shillong,
MEGHALAYA-793001.
GST IN/UIN : 17AAGCM5623C2ZP

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2021-22	27160000	0%	9943571		1.343	13354216.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	7122802		1.403	9993291.00
	TOTAL						23347507.00

Total Amount Payable : 23347507.00

Amount Payable (in words) : Rupees Two Crore ThirtyThree Lakh FourtySeven Thousand Five Hundred Seven Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong
Authorised Signatory

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

Invoice No: NEEPCO/MEGH/2024-2025/1600/SHRTFL/01 Bill Date : 30-Apr-24

Bill For : Shortfall of Energy for the period 2014-19. Bill Ref :

Other Ref :

From :	To :
DOYANG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION Ltd., WOKHA DISTRICT, NAGALAND GST IN/UIN : 13AAACN9991J1Z1	The Chief Accounts Officer, Meghalaya Energy Corporation Ltd, Short Round Road, Shillong, MEGHALAYA-793001. GST IN/UIN : 17AAGCM5623C22P

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2019-20	27160000	0%	692530		3.077	2130915.00
	b) Shortfall of Energy FY 2021-22	27160000	0%	10423638		3.265	34033178.00
	c) Shortfall of Energy FY 2022-23	27160000	0%	892027		3.375	3010591.00
	d) Shortfall of Energy FY 2023-24	27160000	0%	4256617		3.466	14838567.00
	TOTAL						54013251.00

Total Amount Payable : **54013251.00**

Amount Payable (in words) : Rupees Five Crore Fourty Lakh Thirteen Thousand Two Hundred FiftyOne Only

E & OE

For NEEPCO Limited

Accounts Officer
O/O ED (Comml), NEEPCO Ltd
Shillong

Authorised Signatory

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

Invoice No NEEPCO/MEGH/2024-2025/1400/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
REA Letter No :

From :	To :
KAMENG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION LtD., KIMI WEST KAMENG DISTRICT, ARUNACHAL PRADESH, 790114. GST IN/UIN : 12AAACN9991J3Z1	The Chief Accounts Officer, Meghalaya Energy Corporation Ltd, Short Round Road, Shillong, MEGHALAYA-793001. GST IN/UIN : 17AAGCM5623C2ZP

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
1	Sale of Electricity :-						
	a) Shortfall of Energy FY 2021-22	27160000	0%	3387139		2.000	6774278.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	9471995		2.000	18943990.00
	TOTAL						25718268.00

Total Amount Payable :	2,57,18,268.00
Amount Payable (in words) :	Rupees Two Crore FiftySeven Lakh Eighteen Thousand Two Hundred SixtyEight Only

E & OE

For NEEPCO Limited

Accounts Officer
Authorised Signatory
O/OED (Comm) 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

NEEPCO/ED (Comm)/Mizoram/2024-25/ 68 **Dated: 30/04/2024**

To,

The Engineer in Chief,
Power & Electricity Department,
Govt. of Mizoram,
Electric Veng, Aizawl– 796 001

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- Bill No. NEEPCO/MIZO/2023-2024/1302/SUPP/01Dated 30/04/2024.

Dear Sir,

Enclosed please find herewith shortfall energy bill for **Rs. 105,70,30,025.00 (Rupees One Hundred Five Crore Seventy Lakh Thirty Thousand Twenty Five Only)** calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.
Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For **NEEPCO LTD. Shillong**

Authorised Signatory.

NEEPCO/ED (Comm)/Mizoram/2024-25/ **Dated: 30/04/2024**

COPY FOR INFORMATION FORWARDED TO: -

1. The Sr. Executive Engineer,Mizoram SLDC Circle, Power and Electricity Deptt., Govt. of Mizoram. Electric Veng, Aizawl– 796 001.

Authorised Signatory.

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स नं./Fax No. : 0364-2225035
वेबसाइट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U4010ML1976GOI001658

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

Invoice No: NEEPCO/MIZO/2020-75/1500/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-21
Bill Ref : Shortfall of Energy for the period 2014-19.
Other Ref :

From :
TUIRIAL HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION Ltd.,
DISTRICT KOLASIB,
MIZORAM.
GST IN/UIN : 15AAACN9991J1ZX

To :
The Executive Engineer
Mizoram SLDC Circle,
Power & Electricity Department, Govt. Mizoram,
Electric Veng,
Aizawl- 796 001.
GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in Kwh)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2019-20	27160000	0%	61735698		2.678	165328194.00
	b) Shortfall of Energy FY 2020-21	27160000	0%	77216325		2.673	206399237.00
	c) Shortfall of Energy FY 2021-22	27160000	0%	95304791		2.659	253415439.00
	d) Shortfall of Energy FY 2022-23	27160000	0%	38860935		2.645	102787173.00
	e) Shortfall of Energy FY 2023-24	27160000	0%	111237719		2.632	292777676.00
	TOTAL						1020707719.00

Total Amount Payable : 1020707719.00

Amount Payable (in words) : Rupees Ten Crore Twenty Lakh Seventy Thousand Seven Hundred SeventyOne Only

E & OE

For NEEPCO Limited

30/4/21

Authorised Signatory

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स नं./Fax No. : 0364-2225035
वेसाइट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U40101ML1976GOI001658

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

Invoice No: NEEPCO/MIZO/2024-2025/1100/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
Other Ref :

From :
RANGANADI HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION Ltd.,
YAZALI, ARUNACHAL PRADESH.
GST IN/UIN : 12AAACN9991J4ZD

To :
The Executive Engineer
Mizoram SLDC Circle,
Power & Electricity Department, Govt. Mizoram,
Electric Veng,
Aizawl– 796 001.
GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2021-22	27160000	0%	4926411		1.343	6616170.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	3528898		1.403	4951044.00
	TOTAL						11567214.00

Total Amount Payable : **11567214.00**

Amount Payable (in words) : Rupees One Crore Fifteen Lakh SixtySeven Thousand Two Hundred Fourteen Only

E & OE

For NEEPCO Limited

Accounts Officer
O/O Executive Engineer, NEEPCO Ltd
Authorised Signatory

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स नं./Fax No. : 0364-2225035
वेबसाइट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U40101ML1976GOI001658

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

Invoice No: NEEPCO/MIZO/2024-2025/1600/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref :
Other Ref :

From :
DOYANG HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION LtD.,
WOKHA DISTRICT, NAGALAND
GST IN/UIN : 13AAACN9991J1Z1

To :
The Executive Engineer
Mizoram SLDC Circle,
Power & Electricity Department, Govt. Mizoram,
Electric Veng,
Aizawl– 796 001.
GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2019-20	27160000	0%	317397		3.077	976631.00
	b) Shortfall of Energy FY 2021-22	27160000	0%	4777311		3.265	15597920.00
	c) Shortfall of Energy FY 2022-23	27160000	0%	409830		3.375	1379801.00
	d) Shortfall of Energy FY 2023-24	27160000	0%	1950872		3.486	6800740.00
	TOTAL						24755092.00

Total Amount Payable : 24755092.00

Amount Payable (in words) : Rupees Two Crore FourtySeven Lakh FiftyFive Thousand NinetyTwo Only

E & OE

For NEEPCO Limited

30/4/24

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

Authorised Signatory

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
ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

NEEPCO/ED (Comm)/Nagaland/2024-25/ 70 **Dated: 30/04/2024**

To,

The Executive Engineer (Trans. Division)
Deptt. Of Power, Govt. of Nagaland, Nagarjan.
Dimapur, NAGALAND

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- Bill No. NEEPCO/NAGA/2023-2024/1302/SUPP/01Dated 30/04/2024.

Dear Sir,

Enclosed please find herewith shortfall energy bill for **Rs. 5,43,93,392.00 (Rupees Five Crore Forty Three Lakh Ninety Three Thousand Three Hundred Ninety Two Only)** calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.
Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For **NEEPCO LTD. Shillong**

30/4/24

Authorised Signatory

Chief General Manager (L-I)
मुख्य महाप्रबंधक (लॉजिस्टिक) का कार्यालय
C/o Executive Director (Comml)
नीपको लि., शिलांग
NEEPCO Ltd., Shillong

NEEPCO/ED (Comm)/Nagaland/2024-25/ 71 **Dated: 30/04/2024**

COPY FOR INFORMATION FORWARDED TO: -

1. *The Chief Engineer (Elect) Deptt. Of Power, Govt. of Nagaland, Elect.House Kohima Nagaland.*

30/4/24

Authorised Signatory

Chief General Manager (L-I)
मुख्य महाप्रबंधक (लॉजिस्टिक) का कार्यालय
C/o 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

Invoice No: NEEPCO/NAGA/2024-2025/1100/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
Other Ref :

From :
RANGANADI HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION LtD.,
YAZALI, ARUNACHAL PRADESH.
GST IN/UIN : 12AAACN9991J4Z0

To :
The Executive Engineer (Trans. Division)
Deptt. Of Power,
Govt. of Nagaland
Nagarjan, Dimapur,
NAGALAND.
GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2021-22	27160000	0%	4610948		1.343	6192503.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	3302925		1.403	4634004.00
	TOTAL						10826507.00

Total Amount Payable : 10826507.00

Amount Payable (in words) : Rupees One Crore Eight Lakh TwentySix Thousand Five Hundred Seven Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Authorised Signatory
Shillong

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

ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

Invoice No: NEEPCO/NAGA/2024-2025/1600/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref :
Other Ref : _____

From :	To :
DOYANG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION LtD., WOKHA DISTRICT, NAGALAND GST IN/UIN : 13AAACN9991J1Z1	The Executive Engineer (Trans. Division) Deptt. Of Power, Govt. of Nagaland Nagarjan, Dimapur, NAGALAND. GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2019-20	27160000	0%	360744		3.077	1110009.00
	b) Shortfall of Energy FY 2021-22	27160000	0%	5429755		3.265	17728150.00
	c) Shortfall of Energy FY 2022-23	27160000	0%	464664		3.375	1568241.00
	d) Shortfall of Energy FY 2023-24	27160000	0%	2217305		3.486	7729525.00
	TOTAL						28135925.00

Total Amount Payable : **28135925.00**

Amount Payable (in words) : Rupees Two Crore EightyOne Lakh ThirtyFive Thousand Nine Hundred TwentyFive Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong
Authorised Signatory

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

Invoice No: NEEPCO/NAGA/2024-2025/1400/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
REA Letter No :

From :	To :
KAMENG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION Ltd., KIMI WEST KAMENG DISTRICT, ARUNACHAL PRADESH, 790114. GST IN/UIN : 12AAACN9991J3Z1	The Executive Engineer (Trans. Division) Deptt. Of Power, Govt. of Nagaland Nagarjan, Dimapur, NAGALAND. GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (In KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
1	Sale of Electricity :-						
	a) Shortfall of Energy FY 2021-22	27160000	0%	2032283		2.000	4064566.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	5683197		2.000	11366394.00
	TOTAL						15430960.00

Total Amount Payable :	1,54,30,960.00
Amount Payable (in words) :	Rupees One Crore FiftyFour Lakh Thirty Thousand Nine Hundred Sixty Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

कारपोरेट कार्यालय : ब्रुकलैंड कम्पाउण्ड, लोअर न्यू कॉलोनी, शिलांग
Corporate Office : Brookland Compound, Lower New Colony, Shillong - 793 003
दूरभाष/Tel. : 0364-2226091 | 2505879 | 2501903 | 2502216 ❑ फैक्स नं./Fax No. : 0364-2225035
वेबसाइट/Website : www.neepco.com ❑ ई-मेल/E-mail : neepcocommercial@gmail.com | CIN : U4010ML1976GOI001658

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

ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

NEEPCO/ED (Comm)/TSECL/2024-25/ 72 Dated: 30/04/2024.

To,

The Dy General Manager (Comml & Tariff),
Tripura State Electricity Corporation Ltd,
North Banamalipur,
AGARTALA - 799 001.
TRIPURA (w).

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- Bill No. NEEPCO/TRIP/2023-2024/1302/SUPP/01Dated 30/04/2024.

Dear Sir,

Enclosed please find herewith shortfall energy bill for **Rs. 4,68,85,945.00 (Rupees Four Crore Sixty Eight Lakh Eighty Five Thousand Nine Hundred Forty Five Only)** calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.

Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For **NEEPCO LTD. Shillong**

30/4/24

Authorised Signatory.

O/o Executive Director (Comml)
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

Invoice No: NEEPCO/TRIP/2024-2025/1100/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref : Shortfall of Energy for the period 2014-19.
Other Ref :

From :
RANGANADI HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.,
YAZALI, ARUNACHAL PRADESH.
GST IN/UIN : 12AAACN9991J4Z0

To :
The Dy General Manager (Comml & Tariff),
Tripura State Electricity Corporation Ltd,
North Banamalipur,
AGARTALA - 799 001.
TRIPURA (W).
GST IN/UIN : 16AACCT2964MIZY

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2021-22	27160000	0%	6306670		1.343	8469858.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	4517608		1.403	6338204.00
	TOTAL						14808062.00

Total Amount Payable : 14808062.00

Amount Payable (in words) : Rupees One Crore FourtyEight Lakh Eight Thousand SixtyTwo Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

Authorised Signatory

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

Invoice No: NEEPCO/TRIP/2024-2025/1600/SHRTFL/01
Bill For : Shortfall of Energy for the period 2014-19.

Bill Date : 30-Apr-24
Bill Ref :
Other Ref :

From :
DOYANG HYDRO ELECTRIC PROJECT
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.,
WOKHA DISTRICT, NAGALAND
GST IN/UIN : 13AAACN9991J1Z1

To :
The Dy General Manager (Comml & Tariff),
Tripura State Electricity Corporation Ltd,
North Banamalipur,
AGARTALA - 799 001.
TRIPURA (W).
GST IN/UIN : 16AACCT2964MIZY

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
	a) Shortfall of Energy FY 2019-20	27160000	0%	411286		3.077	1265527.00
	b) Shortfall of Energy FY 2021-22	27160000	0%	6190485		3.265	20211934.00
	c) Shortfall of Energy FY 2022-23	27160000	0%	529765		3.375	1787957.00
	d) Shortfall of Energy FY 2023-24	27160000	0%	2527959		3.486	8812465.00
	TOTAL						32077883.00

Total Amount Payable : 32077883.00

Amount Payable (in words) : Rupees Three Crore Twenty Lakh SeventySeven Thousand Eight Hundred EightyThree Only

E & OE

For NEEPCO Limited

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Authorised Signatory
Shillong

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

ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

No. NEEPCO/Comml./F-99/2024-25/ 74 **Date: 30/04/2024.**

To,

Superintending Engineer,
Electricity Import-Export & Payment Circle,
Uttar Pradesh Power Corporation Ltd.,
11th Floor, Shakti Bhawan Extn.,
14-Ashok Marg, Lucknow,

SUB: - Shortfall of Energy Charges for the period 2019-24.

Ref:- **Bill No. NEEPCO/UTTA/2024-2025/1400/SHRTFL/01 Dated 30/04/2024.**

Dear Sir,

Enclosed please find herewith shortfall energy bill for **Rs. 9,43,03,744.00 (Rupees Nine Crore Forty Three Lakh Three Thousand Seven Hundred Forty Four Only)** calculated as per CERC Regulation 2024, clause 65 (7) & (8) where it is stated as follows: -

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.
Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

The calculation sheet is enclosed herewith for ready reference.

Yours faithfully,

For **NEEPCO LTD. Shillong**

Authorised Signatory.

Chief Manager (C)
O/o 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

Invoice No NEEPCO/UTTA/2024-2025/1400/SHRTFL/01 | Bill Date : 30-Apr-24
Bill For : Shortfall of Energy for the period 2014-19. | Bill Ref : Shortfall of Energy for the period 2014-19.
REA Letter No :
Name of Account Holder : NORTH EASTERN ELECTRIC POWER CORPORATION LTD (NEEPCO LTD)
Name of Bank : STATE BANK OF INDIA | Bank Branch : MAIN BRANCH
Bank Account Number : 10881522463 (CASH CREDIT) | IFSC Code : SBIN0000181

From :	To :
KAMENG HYDRO ELECTRIC PROJECT NORTH EASTERN ELECTRIC POWER CORPORATION Ltd., KIMI WEST KAMENG DISTRICT, ARUNACHAL PRADESH, 790114. GST IN/UIN : 12AAACN9991J3Z1	Superintending Engineer, Electricity Import-Export & Payment Circle, UPPCL, 11th Floor, Shakti Bhawan Extn., 14-Ashok Marg, Lucknow, Email : seiepclko@upptcl.org GST IN/UIN :

Sl No.	Particulars	HSN/SAC	GST Rate	Energy (in KwH)	Capacity Charge (in Rs)	Rate/ %	Amount
1	Sale of Electricity :-						
	a) Shortfall of Energy FY 2021-22	27160000	0%	12419961		2.000	24839922.00
	b) Shortfall of Energy FY 2023-24	27160000	0%	34731911		2.000	69463822.00
	TOTAL						94303744.00

Total Amount Payable :	9,43,03,744.00
Amount Payable (in words) :	Rupees Nine Crore FourtyThree Lakh Three Thousand Seven Hundred FourtyFour Only

E & OE

For NEEPCO Limited
Accounts Officer
O/OED (Comml) NEEPCO Ltd
Authorised Signatory

R.Pal & Co.
Chartered Accountants

Membership No - 54234
Firm Registration No - 322343E
C.P.I Office Complex, Quarry Road, Shillong, Dt - Pincode Office : ☎ (0364-2224321, 2 more
email@gmail.com

To

The Director(Finance)
NEEPCO Ltd.
Shillong

Subject: - Certification for recoverable amount on account of shortfall in energy charges.

We have examined the attached statement in Annexure-I of recoverable amount on account of shortfall in energy charges due to reasons beyond the control of the generating stations of NEEPCO with the records produced before us. We have found that the same has been prepared in accordance with the provisions of the CERC (Tariff) Regulations 2024 notified on 15th March 2024. We have found that :-

1) The attached statement has been prepared based on CERC Tariff Regulations 2024 clause 64(7&8) which inter-alia allows the recovery of shortfall in energy charges (Difference between Saleable Design Energy and Saleable Scheduled Energy), during the tariff period 2019-24, for reasons beyond the control of the generating stations, after adjusting the DSM, directly from the beneficiaries in the immediate following year in six equal interest free monthly instalments subject to truing up at the end of the tariff period.

2) That the calculation of recovery of shortfall of energy charges has been made on the basis of the methodology prescribed by the CERC in its order dated 20.01.2024 on various petitions of NHPC for recovery of shortfall of energy charges of hydro stations.

For R. Pal & Co
Chartered Accountants

(RANADHIR PAL)
Proprietor
FRN. - 322343E
Membership No-54234

Place: Guwahati
Date: - 23.04.2024

UDIN: 24054234BKBJ1G6788

Station wise break up of recoverable shortfall of energy in Rs Cr

Station	2019-20	2020-21	2021-22	2022-23	2023-24	Total
Kameng			8.17		22.86	31.03
Tuirial	16.53	20.64	25.34	10.28	29.28	102.07
PLHPS/Ranganadi			10.21		7.64	17.86
Doyang	1.64	0.00	26.15	2.31	11.40	41.49
Grand Total	18.17	20.64	69.88	12.59	71.18	192.46

SUMMARY OF SHORTFALL OF ENERGY FOR THE PERIOD 2019-24

Beneficiaries	TUIRIAL	PANYOR	DOYANG	KAMENG	TOTAL
Ar.Pradesh	0.00	13113567.00	32308928.00	18866922.00	**64289417.00**
ASEB	0.00	87927058.00	206565913.00	111452686.00	**405945657.00**
Manipur	0.00	16991627.00	37085486.00	0.00	**54077113.00**
MeSEB	0.00	23347507.00	54013251.00	25718268.00	**103079026.00**
Mizoram	1020707719.00	11567214.00	24755092.00	0.00	**1057030025.00**
Nagaland	0.00	10826507.00	28135925.00	15430960.00	**54393392.00**
Tripura	0.00	14808062.00	32077883.00		**46885945.00**
CSPDCL	0			22282308.00	**22282308.00**
UPPC	0			94303744.00	**94303744.00**
HPPC	0			22282308.00	**22282308.00**
	1020707719.00	**178581542.00**	**414942478.00**	**310337196.00**	**1924568935.00**

30/1/24

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

ENERGY SHORTFALL BEYOND CONTROL OF THE GENERATING STATION				
Name of the station:-**Kameng**	Unit	Year		
	Mu	2021-22	2022-23	2023-24
Maximum possible generation wrt to ava	MU	3,203.35	3,545.93	3,016.71
Design energy	MU	3,353.00	3,353.00	3,353.00
Shortfall/Excess		149.65	-192.93	336.29
Energy Loss Due To Silt Flushing	MU		0.00	0.00
Energy Loss Due To High Silt	MU		0.00	0.00
Energy Loss Due To Transmission Constra	MU		0.00	0.00
Less Schedule & URL less trading quantur	MU	4.32	3.13	2.34
Total	MU	153.98	-189.80	338.63
Ex bus energy	MU	134.14		295.01
DSM energy	MU	36.83		22.88
Net energy	MU	97.31		272.13
ECR	Rs/KwH	2.00		2.00
Net amount	Rs Cr.	8.17		22.86

30/7/24

Chief General Manager (E)
मुख्य महाप्रबंधक (वाणिज्यिक) एवं परियोजना
O/o Executive Director (Comml)
नेहपको लि., शिलांग
NEEPCO Ltd., Shillong

SUPPLEMENTARY BILL AGAINST KAMENG HYDRO ELECTRIC POWER PLANT DUE TO SHORTFALL OF ENERGY, for the year 2021-22

Beneficiaries	Original Share Allocation	Free Power	Share Allocation After Adjustment of Free Power	Saleable Sch Energy (KwH)	ECR	Amount
Ar.Pradesh	13.834	12	2.564	2484805	2.000	4969610.00
ASEB	10.834		15.144	14678505	2.000	29357011.00
MeSEB	2.500		3.494	3387139	2.000	6774278.00
Nagaland	1.500		2.097	2032283	2.000	4064567.00
CSPDCL	2.166		3.028	2934617	2.000	5869234.00
UPPC	9.167		12.814	12419961	2.000	24839922.00
HPPC	2.166		3.028	2934617	2.000	5869234.00
	42.17	12.00	42.17	40871928.3		81743856.00

SUPPLEMENTARY BILL AGAINST KAMENG HYDRO ELECTRIC POWER PLANT DUE TO SHORTFALL OF ENERGY, for the year 2023-24

Beneficiaries	Original Share Allocation	Free Power	Share Allocation After Adjustment of Free Power	Saleable Sch Energy (KwH)	ECR	Amount
Ar.Pradesh	13.834	12	2.564	6948656	2.000	13897311.00
ASEB	10.834		15.144	41047838	2.000	82095675.00
MeSEB	2.500		3.494	9471995	2.000	18943990.00
Nagaland	1.500		2.097	5683197	2.000	11366394.00
CSPDCL	2.166		3.028	8206537	2.000	16413073.00
UPPC	9.167		12.814	34731911	2.000	69463823.00
HPPC	2.166		3.028	8206537	2.000	16413073.00
	42.17	12.00	42.17	114296670		228593339.00

Accounts Officer
O/OED (Comml) NEEPCO Ltd
Shillong

ENERGY SHORTFALL BEYOND CONTROL OF THE GENERATING STATION

Name of the station:-DHPS	Unit	Year					
	Mu	2019-20	2020-21	2021-22	2022-23	2023-24	Total
Maximum possible generation wrt to available flow -A	MU	218.42	249.82	132.61	216.88	188.09	
Design energy-B	MU	227.24	227.24	227.24	227.24	227.24	
Shortfall/Excess-C=B-A	MU	8.82	-22.58	94.63	10.36	39.15	
Energy Loss Due To Transmission Constraints-D	MU	0.05	0.00	0.00	0.00	0.00	
Less Schedule(i.e.URS -Difference between DC & ScH.)-E	MU	0.23	0.15	0.00	0.11	0.22	
Total- F=C+D+E		9.10	-22.44	94.63	10.47	39.38	
Ex bus energy-G	MU	7.91	-19.51	82.28	9.10	34.24	
DSM Energy-H	MU	2.39	1.96	1.99	2.04	1.33	
Net energy for shortfall calculation-I=G-H	MU	5.53		80.29	7.06	32.91	
ECR-I	Rs/KwH	3.077	3.168	3.265	3.375	3.486	
Recovery amount-J-H*I	Rs Cr.	1.70		26.21	2.38	11.47	41.77
Design Energy-J	MU	227.24	227.00	227.24	227.24	227.24	
Saleable Design Energy-K=J*0.88*0.988	MU	197.57	197.36	197.57	197.57	197.57	
Sch Energy-L	MU	172.17	196.92	94.58	170.11	157.75	
Free Power-M-L*0.12	MU	20.66	23.63	11.35	20.41	18.93	
Saleable sch Energy-N=L-M	MU	151.51	173.29	83.23	149.70	138.82	
Shortfall of energy-O=K-N	MU	46.07	24.07	114.34	47.87	58.75	
Maximum Recovery amount-P=O*I	Rs Cr.	14.17	7.63	37.33	16.16	20.48	95.77

Ranadhir Paul, FCMA
Cost Accountant

Phone 9862042244 / 9774186255
M/S. **DHRITI**
House of Consultants
Near Vivekananda Byamagar
Gangail Road, Agartala.
WestTripura, PIN-799001

Ref. No. AC 201-23

Date 30.10.2024

For FORM 9A

AUDIT REPORT

We have audited the attached statement of Form-9A of DOYANG HYDRO POWER STATION, pertaining to NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED for the Financial year 2019-20; 2020-21; 2021-22; 2022-23 and 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 capitalisation (Put to used). Year wise break up is given below:

Sl No.	Year	Rupees in Lakh
1)	2019-20 for	Rs. 362.42
2)	2020-21 for	Rs. 108.90
3)	2021-22 for	Rs. 232.27
4)	2022-23 for	Rs.1368.34
5)	2023-24 for	Rs. 22.78
	Total :	**Rs.2094.71**

The statement consist of Form-9A dully filled in the format supplied by NEEPCO Ltd.

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL M-16657 COST ACCOUNTANT

Email ranadhirpaul@rediffmail.com / paulranadhir@yahoo.com

Form 9A

Complete

Year wise Statement of Additional Capitalisation after COD
2019-20
NORTH EASTERN ELECTREC POWER CORPORATION LTD.

Name of the Petitioner :
Name of the Generating Station : DOYANG HYDRO POWER STATION
COD
For 2019-2024

Sl. No.	Head of Work/Equipment	ACE Claimed (Actual/Projected)			IDC included in col.3	Regulation under which claimed	Remarks	Allow by CERC & Spillover	Justification
		Actual basis (Rs in lakh)	Un-discharged Liability included in col.2 (Rs in lakh)	Cash basis (5=3-4)					
1	2	3	4	5	6	7			8
1	2019-20/2020								
A	CERC Approved								
1	Fire Fighting Equipment, Procurement of Fire Tanks(4500 Liters	41.70	0.00	41.70	-	26(2)(i)	Approved cost by CERC Rs.40 Lakh	0.40 Lakh allowed by CERC during 2014-19 & allowed for Spillover During 2019-24 Vide Petition No. 137/MP/2020 Dated 13th May 2022 Page No.8	Provision for procurement of five number 4500 ltr size tanks approved and approved under ADD-CAP for the block year 2014-19 for an amount ₹ 40.00 Lacs. However, this work could not be completed during the control period 2014-19 due to changes in the technical specification and therefore the capacity was altered to 3530 Litres. The same was allowed by CERC as Spill Over Works during 2019-24. LOI was issued on 08.08.2015 and DWO was issued 03.09.2015. The Fire Tenders was received at site on 22.11.2019 and successfully commissioned on 25.11.2019. Replacement of this item was allowed under Regulation 14(3)(viii) of the 2014 tariff regulations as the assets will facilitate successful and efficient operation of plant. Order Copy Enclosed as Flag 13
	Total of Approved	41.70	0.00	41.70					
B	CERC Not Approved								
1	Dam safety monitoring system (DHDP)	260.06		260.06		26(2)(i)			All the instrumentations which were installed for monitoring of the Dam & Spillway during the construction stage are non-functional and beyond the scope of repairing. Since, continuous monitoring of the Dam body and its appurtenant structure are a very vital part with respect to safety, a new Dam Safety Monitoring Instruments were urgently required to be installed at all the strategic locations. Therefore, for monitoring of the Dam and its appurtenant structures, following instrumentations were installed at Dam and its adjoining areas. Geodetic Equipment: High precision servo driven, computer controlled 0.5" total station along with 25 nos. of prism mounted at Dam body GNSS Equipment: 3(three) nos. of GNSS receiver and geodetic antenna including power and communication components. Seismic Equipment for 2(three) nos. of seismic accelerometer which has been incorporated with GNSS data acquisition system. Weather station: 1(one) no. of weather station sensor. Automatic water level recorder: 2(two) nos. of automatic water level sensor. These instruments installed at Dam will not only allowed the Plant to continuously monitor for safety of the Dam but also facilitate to take remedial measures and rectification required immediately. The work was successfully completed on 15.02.2019
2	Dam safety monitoring control Room @ HO Shillong	9.52		9.52		26(2)(i)			For continuous monitoring of the instrumentations installed at Project site, a control room was created at HO Shillong for which an expenditure was made for the work. The work was successfully completed on 13.07.2019

RANADHIR PAL
M-16657
COST ACCOUNTANT

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

कार्यपालक निदेशक (तकनीकी)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दोयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

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3	Dam Break	31.15	0.00	31.15	29 (1) (a)		
	Total of Not Approve	320.72	0.00	320.72			
2	2020-2021						
B	CERC Approved						
1	Switchyard including GIS bay connection Procurement of Current Transformers (CTs) with CTR 600/1 to replace the existing CTs of CTR 300/1 in the outgoing feeders, bus coupler in the 132kV Switchyard DHEP. Total CTs required to be procured with CTR 600/1including 3nos. spare CTs will be 18 (eighteen) numbers only.	29.33		29.33	29(2) (i)	Approved cost by CERC Rs.75 Lakh	Allowed by CERC for ₹ 75 Lakh as New Claims during 2019-20 Vide Petition No. 232/GT/2020 Dated 13th May 2022 Page No.30	As discussed in the OCC meeting and agreed by all constituents and an important requirement for grid stability, upgradation of CTs is required to be done in order to increase power flow and to maintain grid stability. The existing CTs of CTR 300/1 of outgoing feeders and Bus coupler are to be replaced with CTs of CTR 600/1. The work was successfully completed on 21.02.2021
2	1st Priority Procurement of new turbine oil filtration unit	15.00		15.00	26(2)(a)	Approved cost by CERC Rs.15 Lakh	Allowed by CERC for ₹ 15 Lakh as New Claims during 2020-21 Vide Petition No. 232/GT/2020 Dated 13th May 2022 Page No.13	[redacted]
3	Pipes & Machinery in Generation Station, De-watering and Drainage pump sets including control panels with automatic level controller	43.09		43.09	26(2)(c)	Approved cost by CERC Rs.60 Lakh	Allowed by CERC for ₹ 60 Lakh as New Claims during 2019-20 Vide Petition No. 232/GT/2020 Dated 13th May 2022 Page No.30	Ageing and prolonged use of the existing drainage and dewatering pump motor sets due to their wear and tear and of late these pump motor sets are giving frequent problems necessitating repeated repairs. As such the dewatering and drainage pump motor sets need to be replaced at the earliest in order to avoid flooding of Power House and loss of generation in the event of failure of the existing Dewatering and Drainage motor pump sets.The work was successfully completed on 27.03.2021
	Total of Approved	87.46		87.46				
B	CERC Not Approved							
1	Dam safety monitoring control Room @ HQ Shillong	2.66		2.66				For continuous monitoring of the instrumentations installed at Project site, a control room was created at HQ Shillong for which an expenditure was made for the work. The work was successfully completed on 03.07.2019

Dam Break Analysis and Disaster Management Plan of Doyang Dam was conducted through [redacted] Consultancy. The study is necessary to predict the potential consequences of a dam failure and to map probable the risks to people and property at the Downstream of Doyang Dam which are located at flood-prone areas. The study will help to develop emergency response plans to reduce the impact of a dam failure.

As discussed in the OCC meeting and agreed by all constituents and an important requirement for grid stability, upgradation of CTs is required to be done in order to increase power flow and to maintain grid stability. The existing CTs of CTR 300/1 of outgoing feeders and Bus coupler are to be replaced with CTs of CTR 600/1. The work was successfully completed on 21.02.2021

[redacted]

Ageing and prolonged use of the existing drainage and dewatering pump motor sets due to their wear and tear and of late these pump motor sets are giving frequent problems necessitating repeated repairs. As such the dewatering and drainage pump motor sets need to be replaced at the earliest in order to avoid flooding of Power House and loss of generation in the event of failure of the existing Dewatering and Drainage motor pump sets.The work was successfully completed on 27.03.2021

For continuous monitoring of the instrumentations installed at Project site, a control room was created at HQ Shillong for which an expenditure was made for the work. The work was successfully completed on 03.07.2019

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

M-1585

कार्यपालक निदेशक (तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

2	Supply & Inst. of Automatic Weather Station	14.92		14.92	30(Dpd)			[illegible] Doyang Reservoir which was beyond the capacity of the reservoir resulting in huge discharge of water from Doyang Dam which in turn led to flooding of many low lying areas under Golaghat District, Assam as the Downstream of Doyang Dam and also submergence of many valley fields at the upstream of Doyang Dam. Therefore installation of Early Warning System for Doyang Reservoir was urgently required to be taken up. The Project Authority has implemented Early Warning System by installation of 5 (five) nos of AWS with dual data transmission system (Satellite & GSM-GPRS technology) to monitor the rainfall in the Catchment area. With the existing system installed there will be sufficient lead time available in emergency for early warning to all the stake holders. The work was successfully completed on 19.03.2021
3	Erection of Shed for Fire Tender Vehicle(Approved by CERC during 2014-19)	3.87		3.87	29(Dpd)			Fire tender vehicle of 3500 ltr capacity was procured. However due to non-availability of Garage/shed within the Power House Complex, immediate construction of shed was necessary for keeping the vehicle in safe condition. The work was successfully completed on 16.03.2020. The item is proposed for reimbursement under the head "Fire Fighting Equipments. Procurement of Fire Tender 4985 Litres' wheels ₹ 40 Lakh Allowed by CERC during 2014-19 & allowed for Spillover During 2019-24
	Total of Not Approve	21.44		21.44				
B	2019-2024 [illegible]							
C	CERC Approved [illegible]							
1	Plant & Machinery in Generation Station Pre-stressed spring materials for thrust bearings to be replaced for six 3(three) units	102.18		102.18	25(Dpc)	Approved cost by CERC Rs.150 Lakh	Allowed by CERC for ₹ 150 Lakh as New Claims during 2020-21 Vide Petition No. 232/GT/2020 Dated 19th May 2022 Page No.12	It has been observed that the rotor dynamic trend has been affected due to sliding cyclic loads of surface maintenance thereby affecting the properties of pre-loaded spring materials for thrust bearing. So our dynamic bending going out of prescribed value will affect the performance of static bearing, tuberding of machine etc. In order to save guard the machines from any practical abnormality, and to improve the efficiency of the machines, it is required to replace the complete set of thrust bearing pre-loaded spring materials in all three units. The work was successfully completed on 15.01.2022
2	Transformer having rating 100 KVA & above: DGA instruments to be incorporated online in all the 3(three) Generator Transformers	54.03		54.03	29(Dpd)	Approved cost by CERC Rs.150 Lakh	Allowed by CERC for ₹ 80 Lakh as New Claims during 2021-22 Vide Petition No. 232/GT/2020 Dated 19th May 2022 Page No.16	Failure of Generator Transformers is one of the severest failures in a Power Plant and has to be avoided at all costs. The incorporation of DGA (Dissolved Gas Analysis) will help in condition monitoring of GT round the clock. Based on the data, the healthiness of Generator Transformers can be ascertained and corrective measures initiated and reduce expensive re-repairing of GTs. The work was successfully completed on 12.01.2022. Order copy enclosed as Ann 14
	Total of Approved	156.21		156.21				
B	CERC Not Approved [illegible]							
1	CONSTRUCTION OF BARRACK @ DSF Doyang	9.72		9.72	29(Dpd)			As per requirement of the CISF, DHPS unit, it was necessary to construct a Barrack near by Gate Office/s/ Armori Barrack. Accordingly construction of a RCC two Level has to facilitate the CISF personnels/CISF Dispensary was enclosed as Annexure-1. The work was successfully completed on 26.05.2021
2	CONSTRUCTION OF CISF KITCHEN	7.55		7.55	29(Dpd)			As per requirement of the CISF, DHPS unit, it was necessary to construct a Kitchen near by Gate Office/s/ Armori Barrack. Accordingly construction of a RCC two Level has to facilitate the CISF personnels/CISF Dispensary was enclosed as Annexure-1. The work was successfully completed on 26.05.2021

RANADHIR PAUL M-1965 CISF AT DSPN

उप प्रबंधक (सिवि)/Dy. Manager (E)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

कार्यपालक निदेशक (तकनीकी)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

	Erection & installation of Double wiring Simplex type control Panel	19.30		19.30		26(i) (C)		
4	Supply and commissioning of 11 KV Distribution panel	23.83		23.83		25(2)i		
5	Proc of Online Electrostatic Filtration Plant	15.67		15.67		25(2) (C)		
	Total of Not Approved	76.06		76.06				
4	2020-2021							
D	CERC approved							
1	Water supply, sewerage & drain/ Installation of Permanent water source for the use of the colonies and installation of Water purification scheme	275.28		275.28		26(6)(i)	Approved cost by CERC Rs 400 Lakh	₹ 400 Lakh Allowed by CERC during 2014-15 & allowed for Spillover During 2019-24 Vide Petition No. 232/GT/2020 Dated 11th May 2022 Page No.8	Since Commissioning of the plant, there is no properpermanent water supply scheme for providing potable water to the employees of DHEP Presently, the water supply is tapped from a reservoir from an acquired land,hwdbac there is no any filtration scheme for purification of the raw water thereby the quality of the water tends to fail during heavy rains due to high turbity and silt content. The scheme for installation of permanent water source and installation of water purification scheme was approved under CERC Act cap during the control period 2014-19. However due to land disputes during site selection for the source, the design and drawing could not be finalized. Upon finalization of design, the water tank including filtration system was completed on 26.08.2022
2	Plant & Machinery in Generation Station Requirement new 220V DC battery bank-II	180.75		180.75		26(6)(i)	Approved cost by CERC Rs:80 Lakh	Allowed by CERC for ₹.80 Lakh as Now Claimed during 2020-21 Vide Petition No. 232/GT/2020 Dated 11th May 2022 Page No.13	For 100% redundancy and as recommended by protection team and as per the CEA guide lines, an alternative DC source i.e DC source II is a must. In the event of failure of DC control circuit, the whole DC control system will fail and will lead to catastrophic shutdown of the machines. As such procurement of 220 V DC Bank II was made.(CEA guidelines needs to be attached). The work was successfully completed on 17.10.2022

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उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL
M-16657

निदेशक (तक.) /पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

3	Fire Fighting Equipment Replacement of CO2 Fire fighting system of 3 numbers Generator	31.09	31.68	26(2)(c)	Approved cost by CERC Rs.50 Lakhs	Vide Petition No. 233/GT/2020 Dated 12th May 2022 Page No.7	Provision for replacement of CO2 fire fighting system of 3 nos. generators was approved under ACD - CAP for block year 2014-19 for an amount ₹ 50.00 Lacs. The work has been carried over to block year 2019-24. Initially the CEM W/S Tourmaa Kolkata was approached for replacement of CO2 Fire Fighting system for 3 (three) nos Generators. Replacement of the asset was allowed under Regulation 14(3)(ii)(a) of the 2014 tariff regulations as the asset will facilitate successful and efficient operation of plant. The work was successfully completed on 24.01.2023
4	Plant & Machinery in Generation Station Up-gradation of Electro-mechanical relays to numerical relays & EM energy meters to ABT Compliant digital meters	243.79	243.79	26(6)(a)	Approved cost by CERC Rs.250 Lakhs	₹ 250 Lakh Allowed by CERC during 2014-19 & allowed for Spillover During 2019-24 Vide Petition No. 233/GT/2020 Dated 12th May 2022 Page No.7	Provision for retrofitting of numerical relay and ABT based Energy meter was already approved under ACD - CAP for block year 2014-19 for an amount ₹ 250.00 Lacs. Detailed order No.NEEPCO/DHEP/DD&E&M/HDCW 1(2)/19-19/230 dated 09/03/2019. The work could not be completed and had been carried over to block year 2019-24. The upgradation of this asset was allowed under regulation 14(3)(ii)(a) of the 2014 Tariff Regulations, as the asset will facilitate successful and efficient operation of plant. The work was successfully completed on 01.07.2022
	Total of Approved	731.50	731.50				
B	CERC Not Approved						
1	Supply and Installation of Instrument for Ranganadi Dam & Spillway of DHEP	4.22	4.22	76(7) power to relax cl no 29(2)(a)			The expenditure was incurred towards pending final payment to M/s Encardio-Rite Electronics Pvt. Ltd for Supply and Installation of Instruments for Ranganadi Dam and Spillway of DHEP, Nagaland which was commissioned during the year 2006.
2	Supply & Install of 28.5 MVA GT	551.25	551.25	25(3) (c)			Procurement of 1 (one) 28.5 MVA Generator Transformer was made as a replacement of failed GT-#1 as there was no spares GT available and also the OEM declined to supply the required spares windings etc for repairing the failed GT owing to obsolescence of the equipment. Enclosed Obsolete Certificate of M/s BBL, OEM of GT as Flag-A. The GT was successfully supplied, installed and commissioned on 29.05.2022
3	Supply of 2 Nos. 50HP Non-clog Submersible Pump	27.36	27.36	76(7) power to relax cl no 29(2)(b)			Provisions for protection of Power House against flooding by providing Suitable number of submersible pumps with provision for automatic starting by means of level switches at main inlet valve floor, in addition to drainage and dewatering pumps as per CEA Regulation 2010 (Technical Standards for Construction of Electrical Plants and Electric Lines), Chapter-IX, Clause-39 (CEA Regulation 2022 Chapter-IX). The item was capitalized on 04.07.2022
4	Design,Mfg,Testing &supply of1TKW OFAF Unit Coolers & PLC Control System	54.10	54.10	76(7) power to relax cl no 29(2)(a)			In order to avoid failure of existing water borne heat exchanger in Generator Transformer a new Air Force oil cooler was procured to avoid costly outage of Generator Transformer. The item was successfully commissioned on 15.02.2023
	Total of Not Approved	636.84	636.84				
C	DEPRECIATION						
E	CERC Approved						
	NIL						
	Total of Approved	0.00	0.00				
D	CERC Not Approved						
1	Resonating Inductor Type C, Make Doble USA, Model: Type C Resonating Inductor	22.78	22.78	76(7) power to relax cl no 26(1)(d)			Test instrument for conditioning monitoring of electrical equipment to ascertain the healthiness of the equipment and to take preventive measure whenever necessary in order to avoid unnecessary failures of equipment thereby preventing outage of the generating unit.
	Total of Not Approved	22.78	22.78				

RANADHIR PAUL
M-16657
COST ACCOUNTANT

उप-प्रबंधक (वित्त)/Deputy Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

Executive Director (Tech.)
Head of Power Station
दोयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

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PART-II
FORM-9C

Statement showing reconciliation of ACE claimed with the capital additions as

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION
COD *08-07-2000*

Sl No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	Remark
1	2	3	4	5	6	7	8
1	Closing Gross Block	77855.95	77980.24	78325.27	79982.33	80070.94	
2	Less: Opening Gross Block	74728.19	77855.95	77980.24	78325.27	79982.33	
3	**Total Additions as per books (X)**	370.70	124.80	345.03	1861.99	123.53	Ref.Formate 9Bii
	Toal Deletion as per book(P)	0.56	0.00	0.00	203.88	34.93	Ref.Formate 9Bi
	Net Addition Q(X-P)	370.14	124.80	345.03	1658.12	88.60	
4	Less: Additions pertaining to other Stages (give Stage wise breakup)						
5	**Net Additions pertaining to instant project/Unit/Stage**						
6	Less: Exclusions (Y)	8.28	15.40	9.81	60.45	50.30	Form 9D
7	**Net Additional Capital Expenditure Claimed Z (Q-Y)**	361.86	108.89	335.22	1597.67	38.30	
A	Approved Capital Expenditure Claimed-A	41.70	87.46	156.21	731.50	0.00	Form 9A
B	Non-Approved Capital Expenditure Claimed-B	320.72	21.44	76.06	666.54	23.78	Form 9A
C	Non-Approved High Value Spares Capital Expenditure Claimed-C	0.00	0.00	102.95	433.20	50.45	Capital Spares
D	Total D(A+B+C)	362.42	108.89	335.22	1801.55	73.23	
	Difference M (Z-D)	-0.56	0.00	0.00	-203.88	-34.93	
	Add Decap (M+P)	0.00	0.00	0.00	0.00	0.00	

Manil Kr
उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL
M-16857
COST ACCOUNTANT

निदेशक(तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD

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PART-II
FORM-9E

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

Statement of Capital cost
(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening Gross Block Amount as per books	77485.80	77855.95	77980.24	78325.27	79982.33
	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)	90.65	120.43	249.90	537.79	102.50
	Get back of asset withdrawn from active use					
	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)	280.06	3.87	95.12	1323.15	21.03
	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					

RANADHIR PAUL M-1865 COST ACCOUNTANT

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

कार्यपालक निदेशक (तकनी.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

D	a) Deletion in Gross Block Amount during the period	0.56	0.00	0.00	203.88	34.93
	Lease hold land transfer from Fixed Asset					
	Asset withdrawn from active use					
	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	77855.95	77980.24	78325.27	79962.33	80070.94
	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					

C/S

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL
M-1665[illegible]
COST ACCOUNTANT

निदेशक(तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

PART-II
FORM-9F

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

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

(Amount in Rs. Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening CWIP as per books	281.39	235.77	235.36	911.64	7.90
	b) Amount of IDC in A(a) above					
	c) Amount of FC in A(a) above					
	d) Amount of FERV in A(a) above					
	e) Amount of Hedging Cost in A(a) above					
	f) Amount of IEDC in A(a) above					
B	a) Addition in CWIP during the period	235.85	6.56	771.40	419.41	21.03
	b) Amount of IDC in B(a) above					
	c) Amount of FC in B(a) above					
	d) Amount of FERV in B(a) above					
	e) Amount of Hedging Cost in B(a) above					
	f) Amount of IEDC in B(a) above					
C	a) Transferred to Gross Block Amount during the period	280.06	3.87	95.12	1323.15	21.03
	b) Amount of IDC in C(a) above					
	c) Amount of FC in C(a) above					
	d) Amount of FERV in C(a) above					
	e) Amount of Hedging Cost in C(a) above					
	f) Amount of IEDC in C(a) above					
D	a) Deletion in CWIP during the period	1.42	3.10	0.00	0.00	0.87
	b) Amount of IDC in D(a) above					

RANADHIR PAUL M-16657 COST ACCOUNTANT

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO

मुख्य(सिविल)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दोयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

	c) Amount of FC in D(a) above					
	d) Amount of FERV in D(a) above					
	e) Amount of Hedging Cost in D(a) above					
	f) Amount of IEDC in D(a) above					
E	a) Closing CWIP as per books	235.77	235.36	911.64	7.90	7.03
	b) Amount of IDC in E(a) above					
	c) Amount of FC in E(a) above					
	d) Amount of FERV in E(a) above					
	e) Amount of Hedging Cost in E(a) above					
	f) Amount of IEDC in E(a) above					

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उप.प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL
M-15657
COST ACCOUNTANT

कार्यकारी निदेशक (तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)/
Head of Power Station
डीएचपीएस, दोयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

FORM-11

SUMMARY OF DEPRECIATION OF DIFFERENT ASSETS

Projects has completed 12 years under Operation

Name of the Project:DOYANG HYDRO POWER STATION
Date of last COD - 09/07/2000
Actual Depreciation for 2019-2024

in Rupees

Sl. No	Particular of Assets	Account Code	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Lease Hold Land	510101	11281157.00	5813590.00	5813590.18	5813590.18	5813590.18
2	Prnt. Roads	510701	3420625.00	3420625.00	3420625.87	3420625.51	3420625.67
3	Helipad	510720	7082.00	7082.00	7081.63	7081.63	7081.63
4	Power House & Penstock	510901	7004082.00	7004082.00	7004082.48	7004082.48	7004082.48
5	Prnt. Building(Resi)	511031	6076015.00	6076015.00	6116260.81	6119919.18	6119919.55
6	Prnt Bldg (Non Resi)	511047	1284090.00	1304238.00	1337548.26	1340390.10	1340390.19
7	Water supply, sewerage&drain	511201	16627.00	16627.00	16627.23	901441.82	1343849.11
8	Dam/Reservioue/Spillway	511801	87529483.00	88039800.00	88095332.43	88100531.40	88116126.59
9	Tunnels	511802	8301290.00	8301290.00	8301289.93	8301289.93	8301289.93
10	Exctrical & Auxiliary equipment	512110	0.00	0.00	0.00	439656.11	879312.21
11	Switchgear Including Cable Connection	512113	619487.00	619486.00	619486.79	619486.79	619486.79
12	Fire fighting equipment	512124	148584.00	268417.00	268415.60	272545.00	417130.41
13	P&M in Gen.Station (DPH)	512133	109401.00	109401.00	109400.79	109400.77	109400.79
14	Sub-station Equipment and other Fixed Apparatus	512155	209323.00	209323.00	209323.50	209323.50	209323.50
15	Transformer Having a rating of 100 kv amp & above	512156	548726.00	564427.00	757875.85	3297829.86	3222397.00
16	T&P (ordinary)	512157	3957.00	4967.00	7018.81	176273.54	222733.67
17	400/220V132 KV Switch-yards at NEEPCO sites	512158	0.00	0.00	0.00	135269.43	135269.43
18	Plant& Machinery in Gen.Stn.(plant)	512166	17311516.00	17330227.00	17761921.56	20072745.00	21586364.55
19	T&P (Special)	512208	3381.00	6238.00	181445.04	425489.85	423235.12
20	11 kv Line	512305	85970.00	85970.00	104619.41	197885.57	197885.58
21	33KV/High Tension/Low Tension	512306	56860.00	56860.00	56859.12	56859.12	56859.12
22	Outdoor Electrification	512311	7125.00	7125.00	7125.55	71872.27	97398.12
23	Indoor electrification	512313	307108.00	307110.00	307107.83	307107.71	307107.83
24	Transport equipment	512506	0.00	0.00	0.00	69058.08	103587.10
25	Furniture & Fixture	513001	105826.00	107294.00	107265.23	108791.86	118488.25
26	Main Frame Computer	513101	2311668.00	1453784.00	726875.39	743895.36	285072.91
	Other E.D.P Machines	513103	0.00	0.00	0.00	0.00	677675.60
	Refrigerator/Air-cooler/water-cooler and Air-conditioner	513204	0.00	0.00	0.00	0.00	7228.33
27	Office equipment	513205	21915.00	24654.00	27663.13	29486.42	19089.85
28	Hospital equipment	513206	1935.00	12524.00	21885.85	26221.99	33718.61
29	Guest House equipment	513210	6273.00	6273.00	6271.54	6753.96	6797.84
30	Communication. Equipment	513212	4129.00	4129.00	4128.45	4054.10	3346.42
31	Telephone Line	513214	5236.00	5236.00	5236.30	3927.23	0.00
32	Misc. equipment	514202	45951.00	46761.00	47507.18	71298.93	34999.48
	Audio visual equipments	514205	0.00	0.00	0.00	0.00	29303.80
33	Asset of Minor Value750> to 5000<	514209	65229.00	62256.00	19201.41	3478.00	33155.00
	Total:		141991167.00	131275631.00	141469052.96	148467642.67	151303304.65

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Manish Kumar
Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

कार्यपालक निदेशक(तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दोयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

RanadhirPaul, FCMA
Cost Accountant

Phone:9862042244 / 9774186251
M/S. DHRITI
House of Consultants
Near Vivekananda Byamagar
Gangail Road,Agartala
WestTripura,PIN-799001

Ref No:AC 301-09

Date:30-[illegible]

For FORM 9B(i)

AUDIT REPORT

We have audited the attached statement of Form-9B(i) of DOYANG HYDRO POWER STATION, pertaining to NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED for the Financial year 2019-20; 2020-21; 2021-22; 2022-23 and 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 De-capitalisation of Asset. Year wise break up is given below:

Sl No.	Year	Rupees in Lakh
1)	2019-20 for	Rs. 0.56
2)	2020-21 for	Rs. NIL
3)	2021-22 for	Rs. NIL
4)	2022-23 for	Rs.203.88
5)	2023-24 for	Rs. 34.93
	Total : Rs.	239.37

The statement consist of Form-9B(i) dully filled in the format supplied by NEEPCO Ltd.

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL M-18657 COST ACCOUNTANT

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PART-II
FORM-9Bi

Detail of Assets De-Capitalized during the period

Name of the Petitioner: NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION
Place (Region/District/State): North Eastern Region State: NAGALAND District: WOKHA

Sl. No.	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised (Rs. in Lakh)	Year Put to use	Depreciation recovered till date of de-capitalization. (Rs. in Lakh)	Remarks
1	2	3	4	5	6	
	De-Cap on Excess Capitalised.					
	FY 2019-20					
1	Plant& Machinery in Gen.Stn.(plant)	Excess Capitalised in FY 2018-19(Mar'19) withdrawn in FY 2019-20	55018.00	26.03.2019	0 (DeCap on 01.04.2019)	
			55018.00			
	Written-Off from Asset and transfer to Prov.for write-off awaiting approval:					
	FY 2022-23					
1	8MM thick M.S Plate	Written-Off of Damaged/Unserviceable Assets	116216	31-03-2003	82431.88	
2	Electric motor Dnfe	Written-Off of Damaged/Unserviceable Assets	187417	13-11-2002	132832.10	
3	Motor Driven Centrifugal	Written-Off of Damaged/Unserviceable Assets	563750	13-11-2002	399868.72	
4	Seamless Pipe	Written-Off of Damaged/Unserviceable Assets	14950	18-11-2002	14949.00	
5	Water level Controller	Written-Off of Damaged/Unserviceable Assets	30750	13-11-2002	21810.52	
6	HCL Infinti Core i3 Desktop PC	Written-Off of Damaged/Unserviceable Assets	16024	09-06-2006	9653.48	Exclusion
7	NVR with 2TB HDD 19" LE	Written-Off of Damaged/Unserviceable Assets	20434	31-10-2006	12307.96	Exclusion
8	Phoenix	Written-Off of Damaged/Unserviceable Assets	50006.74	25-06-2019	47029.63	Exclusion
9	SAVIOR Finger Print Read	Written-Off of Damaged/Unserviceable Assets	34067	25-03-2013	34067.00	Exclusion
10	Dahua 8 Ch NVR with Monitor	Written-Off of Damaged/Unserviceable Assets	40162	27-05-2016	40162.00	Exclusion
11	HP 400G4 Desktop PC	Written-Off of Damaged/Unserviceable Assets	65221.5	25-10-2002	65221.50	Exclusion
12	HP laserjet	Written-Off of Damaged/Unserviceable Assets	22471	29-04-2016	22471.00	Exclusion
13	HP Lezer Jet 3030	Written-Off of Damaged/Unserviceable Assets	53395	15-05-2018	53395.00	Exclusion
14	HP280 Commercial Desktop PC	Written-Off of Damaged/Unserviceable Assets	22000	19-09-2014	22000.00	
15	IP Dome Camera	Written-Off of Damaged/Unserviceable Assets	16932	01-04-2005	16932.00	
16	IP Dome Camera	Written-Off of Damaged/Unserviceable Assets	59972	22-05-2017	59972.00	
17	Laserjet P1007 Printer	Written-Off of Damaged/Unserviceable Assets	7506	27-05-2016	7506.00	Exclusion
18	Air Conditioner	Written-Off of Damaged/Unserviceable Assets	7506	27-05-2016	7506.00	Exclusion
19	Air Conditioner	Written-Off of Damaged/Unserviceable Assets	5997	04-11-2011	5997.00	Exclusion
20	HP intel cores i5 14	Written-Off of Damaged/Unserviceable Assets	83732	26-11-2020	52685.48	Exclusion

उप-प्रबंधक/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

M-16857

उप-प्रबंधक(वित्त)/उपायुक्त महाप्रबंधक
Dy. Director (Tech.)
Head of Power Station
दोयांग परियोजना, दोयांग, नीपको लिमिटेड
Doyang, NEEPCO LTD.

	Display Board 4 X 64	Written-Off of Demaged/Unserviceable Assets	9009	24-10-2016	2790.89	
22	Godrej Carbo 3seater	Written-Off of Demaged/Unserviceable Assets	25584.39	14-02-2014	8105.22	Exclusion
23	Godrej Executive Chair	Written-Off of Demaged/Unserviceable Assets	12966.5	28-09-2012	3977.48	Exclusion
24	Godrej Executive Table	Written-Off of Demaged/Unserviceable Assets	10302	28-09-2012	3166.99	Exclusion
25	Godrej Premium long chai	Written-Off of Demaged/Unserviceable Assets	18484.52	14-02-2014	5869.37	Exclusion
26	Godrej revolving Chair P	Written-Off of Demaged/Unserviceable Assets	13639.16	14-02-2014	4357.14	Exclusion
27	Godrej Steel Rack (6'x15)	Written-Off of Demaged/Unserviceable Assets	6666	09-01-2019	1101.13	Exclusion
28	Office table(single draw	Written-Off of Demaged/Unserviceable Assets	7534.74	12-08-2015	2133.66	Exclusion
29	Emergency First Aid Kit	Written-Off of Demaged/Unserviceable Assets	50550	26-03-2008	25406.99	Exclusion
30	BPL Digital EPABX	Written-Off of Demaged/Unserviceable Assets	164850	31-03-2007	148365.00	Exclusion
31	BPL EBABX System Sigma 2	Written-Off of Demaged/Unserviceable Assets	241749	22-05-2007	215175.83	Exclusion
32	Fax Machine HP L Jet 305	Written-Off of Demaged/Unserviceable Assets	15839	10-07-2007	11225.19	Exclusion
33	12V Battery Model 18	Written-Off of Demaged/Unserviceable Assets	32625	31-03-2009	15574.36	Exclusion
34	Aquaguard Classic Water	Written-Off of Demaged/Unserviceable Assets	9350	21-08-2015	2646.18	Exclusion
35	Aquaguard Classic Water	Written-Off of Demaged/Unserviceable Assets	9350	21-08-2015	2646.18	Exclusion
36	Aquaguard Classic Water	Written-Off of Demaged/Unserviceable Assets	9350	21-08-2015	2646.18	Exclusion
37	Aquaguard Classic Water	Written-Off of Demaged/Unserviceable Assets	9350	21-08-2015	2646.18	Exclusion
38	Aquaguard Classic Water	Written-Off of Demaged/Unserviceable Assets	9350	21-08-2015	2646.18	Exclusion
39	Aquaguard HI-FLOW wa	Written-Off of Demaged/Unserviceable Assets	10640	20-11-2009	3829.73	Exclusion
40	Aquaguard HI-FLOW wa	Written-Off of Demaged/Unserviceable Assets	10640	20-11-2009	3829.73	Exclusion
41	Aquaguard HI-FLOW wa	Written-Off of Demaged/Unserviceable Assets	10640	20-11-2009	3829.73	Exclusion
42	Aquaguard water Filt	Written-Off of Demaged/Unserviceable Assets	10240	16-09-2009	4406.86	Exclusion
43	Euro Clean Electroni	Written-Off of Demaged/Unserviceable Assets	9490	20-11-2009	3415.26	Exclusion
44	Mono Block pump Mode	Written-Off of Demaged/Unserviceable Assets	30567	27-10-2014	9390.52	
45	Mono Block pump Mode	Written-Off of Demaged/Unserviceable Assets	19927	27-10-2014	6121.72	
46	Treadmill	Written-Off of Demaged/Unserviceable Assets	165000	12-02-2014	53536.36	
47	Voltas 1.5 Ton AC wi	Written-Off of Demaged/Unserviceable Assets	36360	27-10-2014	11980.63	Exclusion
48	Degital Camera SONI	Written-Off of Demaged/Unserviceable Assets	14500	21-01-2011	6153.21	Exclusion
49	LCD Projector with Screen	Written-Off of Demaged/Unserviceable Assets	83487	07-03-2009	39947.44	Exclusion
50	Aluminium Ladder Plateform 7 ft	Written-Off of Demaged/Unserviceable Assets	7665	08-02-2019	1248.66	Exclusion
51	Aluminium Ladder Plateform 9 ft	Written-Off of Demaged/Unserviceable Assets	10620	08-02-2019	1664.88	Exclusion
52	Crompton Greave Mini Mas 1 HP M	Written-Off of Demaged/Unserviceable Assets	8715	14-09-2011	3379.43	Exclusion
53	Super King 10HP water cooled Die	Written-Off of Demaged/Unserviceable Assets	29500	19-01-2010	13117.32	
54	Air Conditioner	Written-Off of Demaged/Unserviceable Assets	20434	31-10-2006	12548.20	Exclusion
55	Air Conditioner	Written-Off of Demaged/Unserviceable Assets	16024	09-06-2006	9841.69	Exclusion
56	Air Conditioner	Written-Off of Demaged/Unserviceable Assets	16024	09-06-2006	9841.70	Exclusion
57	BE make Pump	Written-Off of Demaged/Unserviceable Assets	41702	26-11-200	37531.80	
58	NTPL MAKE 100KV MOTORIST	Written-Off of Demaged/Unserviceable Assets	68505	15-09-2	6879.07	Exclusion
59	Telephone Line	Written-Off of Demaged/Unserviceable Assets	4653968.94	21-12-200	4093009.49	

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Manik Kar
उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

M-1665

कार्यपालक निदेशक (तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दोयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

	28.5 MVA GT Hydrogen Makes S	Written Off of Demaged/Unserviceable Assets	126610.8	21.12.200	4241.38	
61	Vaccuam cleaner	Written-Off of Demaged/Unserviceable Assets	5330	25 03 2003	5329.00	
62	Heat Convertor 423 N & R	Written-Off of Demaged/Unserviceable Assets	4706	31-03-2003	4705.00	
63	Secretariate Table	Written-Off of Demaged/Unserviceable Assets	9442	09-05-2002	9441.00	
64	Secretariate Table	Written-Off of Demaged/Unserviceable Assets	9442	09-05-2002	9441.00	
65	Executive Chair 7002D	Written-Off of Demaged/Unserviceable Assets	8423	28-09-2002	8422.00	
66	Secretariate Table	Written-Off of Demaged/Unserviceable Assets	7570	09-05-2002	7569.00	
67	Secretariate Table	Written-Off of Demaged/Unserviceable Assets	7570	09-05-2002	7569.00	
68	Godrej Ex Chair PCH-7002	Written-Off of Demaged/Unserviceable Assets	7183	12-09-2002	7182.00	
69	Chair PCH-7003D Marron	Written-Off of Demaged/Unserviceable Assets	6331	21-09-2010	6330.00	Exclusion
70	Wooden Rack	Written-Off of Demaged/Unserviceable Assets	5389	28-11-2002	5388.00	
71	Godrej Chair-7003	Written-Off of Demaged/Unserviceable Assets	5050	18-05-2007	5049.00	Exclusion
72	Godrej Chair-7003	Written-Off of Demaged/Unserviceable Assets	5050	18-05-2007	5049.00	Exclusion
73	Godrej Computer Rack	Written-Off of Demaged/Unserviceable Assets	4747	28-09-2002	4746.00	Exclusion
74	Godrej Single matters	Written-Off of Demaged/Unserviceable Assets	4474.37	14-02-2014	4473.37	Exclusion
75	Godrej Single matters	Written-Off of Demaged/Unserviceable Assets	4474.37	14-02-2014	4473.37	Exclusion
76	Godrej Single matters	Written-Off of Demaged/Unserviceable Assets	4474.37	14-02-2014	4473.37	Exclusion
77	Godrez Chair with arm	Written-Off of Demaged/Unserviceable Assets	1664	31-12-2011	1663.00	Exclusion
78	Steel chairCH-4(Armless)	Written-Off of Demaged/Unserviceable Assets	984	31-12-2011	983.00	Exclusion
79	Steel chairCH-4(Armless)	Written-Off of Demaged/Unserviceable Assets	984	31-12-2011	983.00	Exclusion
80	Accord EPABX System Prid	Written-Off of Demaged/Unserviceable Assets	14020	31-03-2007	12618.00	
81	Cannon Fax Machine	Written-Off of Demaged/Unserviceable Assets	8580	14-03-2006	7722.00	
82	8 Ports unmenaged switch	Written-Off of Demaged/Unserviceable Assets	4484	27-02-2010	4483.00	
83	Telliphone Line	Written-Off of Demaged/Unserviceable Assets	14145.94	26-03-2004	13191.30	
84	Telliphone Line	Written-Off of Demaged/Unserviceable Assets	10436.1	26-03-2004	9969.74	
85	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00	
86	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00	
87	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00	
88	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00	
89	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10639	21-12-2001	10638.00	
90	Hospital Equipment	Written-Off of Demaged/Unserviceable Assets	10638	21-12-2001	10637.00	
91	ASPEE MARUT HAND COMPR.Se	Written-Off of Demaged/Unserviceable Assets	5500	16-10-2017	5499.00	
92	Bed side Locker	Written-Off of Demaged/Unserviceable Assets	3200	12-11-2002	3199.00	
93	Bed side Locker	Written-Off of Demaged/Unserviceable Assets	3200	12-11-2002	3199.00	
94	ElectStanlizer50cmX20cm	Written-Off of Demaged/Unserviceable Assets	2200	26-03-2008	2199.00	
95	H.I.V. Device/URS-9	Written-Off of Demaged/Unserviceable Assets	1345	26-03-2008	1344.00	
96	Metel Ditector	Written-Off of Demaged/Unserviceable Assets	10400	31-03-2007	10399.00	
97	Storage Water Heater 15	Written-Off of Demaged/Unserviceable Assets	15086	22-06-2002	15085.00	
98	Tatasky Digicomp(HD)	Written-Off of Demaged/Unserviceable Assets	2050	09-09-2016	2049.00	Exclusion

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Manish Kr

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

कार्यपालक निदेशक (तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

99	F A Box Self Care Kit Big GEN	Written-Off of Damaged/Unserviceable Assets	4906	01-04-2017	4905.00	Exclusion
100	F A Box Self Care Kit Big GE	Written-Off of Damaged/Unserviceable Assets	4905	01-04-2017	4905.00	Exclusion
101	F A Box Self Care Kit Big GE	Written-Off of Damaged/Unserviceable Assets	4906	01-04-2017	4905.00	Exclusion
102	F A Box Self Care Kit Big GE	Written-Off of Damaged/Unserviceable Assets	4906	01-04-2017	4905.00	Exclusion
103	Godrej premier visitor	Written-Off of Damaged/Unserviceable Assets	4020	01-04-2016	4019.00	Exclusion
104	Hero Royal Bicycle	Written-Off of Damaged/Unserviceable Assets	3900	01-04-2016	3899.00	Exclusion
105	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
106	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
107	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
108	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
109	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
110	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
111	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
112	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
113	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
114	Conference Chair Model:P	Written-Off of Damaged/Unserviceable Assets	3611.82	01-04-2015	3610.82	Exclusion
115	Kurlon Sona 3 5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion
116	Kurlon Sona 3 5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion
117	Kurlon Sona 3 5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion
118	Kurlon Sona 3 5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion
119	Kurlon Sona 3 5X6.5X3	Written-Off of Damaged/Unserviceable Assets	3550	01-04-2015	3549.00	Exclusion
120	Blanket	Written-Off of Damaged/Unserviceable Assets	3050	01-04-2013	3049.00	Exclusion
121	Bajaj Blow Hot Room Heater	Written-Off of Damaged/Unserviceable Assets	2399	01-04-2013	2398.00	Exclusion
122	Bajaj Blow Hot Room Heater	Written-Off of Damaged/Unserviceable Assets	2399	01-04-2013	2398.00	Exclusion
123	Blanket	Written-Off of Damaged/Unserviceable Assets	1940	01-04-2013	1939.00	Exclusion
124	Blanket	Written-Off of Damaged/Unserviceable Assets	1940	01-04-2013	1939.00	Exclusion
125	Blanket	Written-Off of Damaged/Unserviceable Assets	1940	01-04-2013	1939.00	Exclusion
126	Blanket	Written-Off of Damaged/Unserviceable Assets	1940	01-04-2013	1939.00	Exclusion
127	Electronic personal	Written-Off of Damaged/Unserviceable Assets	1800	01-04-2011	1799.00	Exclusion
128	Electronic personal scal	Written-Off of Damaged/Unserviceable Assets	1800	01-04-2011	1799.00	Exclusion
129	Electronic personal scal	Written-Off of Damaged/Unserviceable Assets	1800	01-04-2011	1799.00	Exclusion
130	Revolving Stool INFOS	Written-Off of Damaged/Unserviceable Assets	1400	01-04-2011	1399.00	Exclusion
131	Pressure cooker(5 Litres)	Written-Off of Damaged/Unserviceable Assets	1400	01-04-2013	1399.00	Exclusion
132	Saline Stand-SS Rods wit	Written-Off of Damaged/Unserviceable Assets	1400	01-04-2011	1399.00	Exclusion
133	Stethoscope, Model Delux INFOS	Written-Off of Damaged/Unserviceable Assets	1363	01-04-2017	1362.00	Exclusion
134	Mercurial BP Apparatus D	Written-Off of Damaged/Unserviceable Assets	1280	01-04-2011	1279.00	Exclusion
135	Mercurial BP Apparatus D	Written-Off of Damaged/Unserviceable Assets	1280	01-04-2011	1279.00	Exclusion
136	Mercurial BP Apparatus D	Written-Off of Damaged/Unserviceable Assets	1280	01-04-2011	1279.00	Exclusion
137	Mercurial BP Apparatus D	Written-Off of Damaged/Unserviceable Assets	1280	01-04-2011	1279.00	Exclusion

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

M-16857

कार्यपालक निदेशक (तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

138	Oxygen Flow Meter	Written-Off of Damaged/Unserviceable Assets	1269	01-04-2011	268.00	Exclusion
139	ENT Set Deluxe INFOS	Written-Off of Damaged/Unserviceable Assets	849	01-04-2011	848.00	Exclusion
140	ENT Set Deluxe INFOS	Written-Off of Damaged/Unserviceable Assets	849	01-04-2011	848.00	Exclusion
			20387755.91		10519488.47	1094806.84
	FY 2023-24				201190.35	
1	Fire Tender NL05 D 1518	Written-Off of Damaged/Unserviceable Assets	223544.85	21-12-2001	5168.65	Exclusion
2	TV 21" BPL	Written-Off of Damaged/Unserviceable Assets	10825	20-11-2009	899.00	Exclusion
3	Elect Kettle Model T	Written-Off of Damaged/Unserviceable Assets	900	01-04-2012	1949.00	Exclusion
4	I Ball Nirantar UPS-621V	Written-Off of Damaged/Unserviceable Assets	1950	01-04-2018	2815.51	Exclusion
5	Godrej visitor Chair	Written-Off of Damaged/Unserviceable Assets	7107	28-09-2012	199504.20	Exclusion
6	Wireless Antenna 20 Mbps Adora	Written-Off of Damaged/Unserviceable Assets	277131	27-02-2010	1983979.29	
7	11 Nos.Damaged Vehicles	Written-Off of Damaged/Unserviceable Assets	2204421.5	21-12-2001	36517.50	Exclusion
8	Motorcycle CISF NL05/6065	Written-Off of Damaged/Unserviceable Assets	40575	11-08-2005	36517.50	Exclusion
9	Motorcycle CISF NL05/6066	Written-Off of Damaged/Unserviceable Assets	40575	11-08-2005	480834.90	Exclusion
10	Gypsy ML-05E-1513 CISF	Written-Off of Damaged/Unserviceable Assets	534261	21-06-2005	1392.69	Exclusion
11	Healthpure Classica dispenser	Written-Off of Damaged/Unserviceable Assets	8991	13-07-2020	1391.84	Exclusion
12	Healthpure Classica dispenser	Written-Off of Damaged/Unserviceable Assets	8991	13-07-2020	1355.66	Exclusion
13	Healthpure Classica dispenser	Written-Off of Damaged/Unserviceable Assets	8990	19-08-2020	1356.64	Exclusion
14	Healthpure Classica dispenser	Written-Off of Damaged/Unserviceable Assets	8991	19-08-2020	15299.01	Exclusion
15	Xerox Machine	Written-Off of Damaged/Unserviceable Assets	43577	09-06-2014	30617.07	Exclusion
16	Sony LCDTV	Written-Off of Damaged/Unserviceable Assets	71680	25-09-2011	38.00	Exclusion
17	Books & manual	Written-Off and booked to O&M	40	21-12-2001	64.00	Exclusion
18	Books & manual	Written-Off and booked to O&M	65	21-12-2001	3000711.81	85542.17
			34 9261535	3492615.36		

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उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL M-16557 COST ACCOUNTANT

कार्यपालक निदेशक (तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

RanadhirPaul, FCMA
Cost Accountant

Phone 9862042244 / 9774186259
M/S. DHRITI
House of Consultants
Near Vivekananda Byamagar
Gangail Road, Agartala
WestTripura, PIN-799001

Ref. No. RP/DHPS/04-05 Date 30.10.2024

AUDIT REPORT

This is certify that the Security Expenses of DOYANG HYDRO 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. 8121.03 Lakhs.

उप-प्रबंधक वित्त/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL M-16657

Email ranadhirpaul@rediffmail.com / paulranadhir@yahoo.com

RanadhirPaul, FCMA
Cost Accountant

Phone:9862042244 / 9774186255
M/S. DHRITI
House of Consultants
Near Vivekananda Byamagar
Gangail Road,Agartala
WestTripura,PIN-799001

Ref. No. M 301-09

Date: 30-10-2024

For Capital Spare

AUDIT REPORT

We have audited the attached statement of Capital Spares of DOYANG HYDRO POWER STATION, pertaining to NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED for the Financial year 2019-20; 2020-21; 2021-22; 2022-23 and 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 up is given below:

Sl No.	Year	Rupees in Lakh
1)	2019-20 for	Rs. NIL
2)	2020-21 for	Rs. NIL
3)	2021-22 for	Rs. 102.95
4)	2022-23 for	Rs. 433.20
5)	2023-24 for	Rs. 50.45
	Total :	**Rs. 586.60**

The statement consists of Capital Spares dully filled in the format supplied by NEEPCO Ltd.

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL M-16657 COST ACCOUNTANT

Annexure - II

Statement of Security Expenses for the period 2019-2024

Break up of Security Expenses	2019-20	2020-21	2021-22	2022-23	2023-24
CISF	1253.48	1522.65	1409.86	1507.91	1685.63
Others	292.48	247.43	43.37	47.35	110.86
Total:	1545.96	1770.08	1453.23	1555.26	1796.50

C/S

उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL M-16657 COST ACCOUNTANT

निदेशक (तक.)/पावर स्टेशन प्रमुख
Director (Tech.)
Head of Power Station
डीएचपीएस, दीमापुर, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

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PART-II
FORM-9D

Statement showing items/assets/works claimed under Capital Spares

NORTH EASTERN ELECTRIC POWER CORPORATION LTD.

Name of the Petitioner :
Name of the Generating Station :DOYANG HYDRO POWER STATION
COD 08-07-2000

Sl. No.	Head of Work / Equipment	Total Cost of Capital Spares	Not used	Used	Justification	Regularation Reference
1	2	3	4	5 = (3-4)		
	CAPITAL SPARES					
	2021-22					
1	Supply & Inst. of RIP BUSHING for 145 KV,800 A,600CT Transformer	66.68		66.68	The procurement of 9 (nine) Nos. of Resin Impregnated Paper (RIP) Transformer bushing was made for replacement of the existing Oil Impregnated Paper (OIP) bushings of GTs which are more than 20 years old and showing sign of deterioration due to aging and in order to avoid any failure of the existing bushings and for securing the transformer and other associated equipment from fire accident the old GT bushings. Oder Copy enclosed as Flag-4. The item was capitalised on 21.01.2022 GRN attached as Annex-2	35(1)/6
2	Proc.of Tan delta & capacitance measurement kits	36.27		36.27	Tan Delta and Capacitance Measurement Kit is required for measurement of insulation integrity/conditioning monitoring of transformers, bushings, generators, motors, cables etc to ascertain the healthiness of the equipment and to take preventative measures whenever necessary in order to avoid unnecessary failures of equipment thereby preventing outage of the generating unit. Oder Copy enclosed as Flag-3. The work was succesfully completed on 13.07.2021	35(1)/6
	Total addition under Exclusions FY 2021-22	102.95		102.95		
	2022-23					
1	Hydraulic torque wrench Make AEROBOOM	16.40		16.40	In order to open up coupling bolt during alignment correction, torque wrench is an important tools where by in reduces time and avoid hammer for tighting and also for opening. This tool is also utilised for opening and tightening in other works like draft tube cone, runner etc The item was capitalised on 12.05.2022 Order Copy enclosed as Flag-12 GRN attached as Annex-3	35(1)/6
2	Supply of Thrust Pad Set & Guide Pad Set LGB	45.43		45.43	Capital Spares. Order Copy enclosed as Flag-9. The item was capitalised on 15.06.2022. GRN attached as Annex-6	35(1)/6
3	Oil cooler for bottom bracket. Make: BHEL	31.85		31.85	Capital Spares. Order Copy enclosed as Flag-8. The item was capitalised on 15.09.2022.GRN attached as Annex-5	35(1)/6

Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

COST ACCOUNTS

Senior Director (Tech.)
Head of Power Station
दोयांग पावर स्टेशन प्रमुख
दोयांग, नीपको लिमिटेड
Doyang, NEEPCO LTD.

2243

4	Cover plate, Split Dowel, GV Lever adapter M30	219.10		219.10	Capital Spares Order Copy enclosed as Flag-9 The item was capitalised on 05.1* 2022.GRN attached as Annex-7	35(1)/
5	Supply of 145KV SF6 CB (GO) Type. 120 SFM-40AA.	28.56		28.56	Capital Spares Order Copy enclosed as Flag 7 The item was capitalised on 20.04.2022 GRN attached as Annex-9	35(1)/6
6	Supply of Typical Tank Mounted pump for Water Turbine Governor	23.00		23.00	Capital Spares Order copy enclosed as Flag-10. The item was capitalised on 28.04.2022 GRN attached as Annex-8	35(1)/6
7	Supply of oil Cooler for Turbine Guide bearing(TGB) Housing	68.86		68.86	Capital Spares Order Copy enclosed as Flag-9 The item was capitalised on 09.12.2022. GRN attached as Annex-5	35(1)/6
	Total addition under Exclusions FY 2022-23	433.20	0.00	433.20		
	2023-24					
1	Screw Pump for Oil Pressure Unit, SN.A230477/603-6	50.45		50.45	Capital Spares. Order copy enclosed as Flag-11 The item was capitalised on 18.11.2023 GRN attached as Annex-1	35(1)/6
	Total addition under Exclusions FY 2023-24	50.45	0.00	50.45		

Manish Kumar
उप-प्रबंधक (वित्त)/Dy. Manager (F)
डीएचपीएस, नीपको लिमिटेड/DHPS, NEEPCO Ltd.
दोयांग, नागालैंड/Doyang, Nagaland

RANADHIR PAUL
M-16557
COST ACCOUNTANT

कार्यपालक निदेशक (तक.)/पावर स्टेशन प्रमुख
Executive Director (Tech.)
Head of Power Station
डीएचपीएस, दीयांग, नीपको लिमिटेड
DHPS, Doyang, NEEPCO LTD.

~ 244 ~

North Eastern Electric Power Corporation Limited

Miniratna: Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

Materials Goods Receipt

Goods Receipt Number	5000008068	Goods Receipt Date	Jun 15, 2022
Consignee / Receiver Plant		1600 - DOYANG HYDRO ELECTRIC PLANT (DHEP)	
Consignee / Receiver Storage Location		-	
Delivery Note No		BP220320312	
Vendor Address		100977 - BHARAT HEAVY ELECTRCIALS LTD BHEL BHAWAN, 3RD FLOOR PLOT No. 9/1, DJ-BLOCK KOLKATA West Bengal	
Transporter Name		Transport Corporation	
Vehicle Number		MP04GB0632	
L.R No.			
L.R Date			
PO Number	3800000097	PO Date	Aug 9, 2021

S.No.	Material No.	Description	Qty Rcvd	UOM	Delivery Note Qty	Pending Po Qty	Valuation Type / Batch	WBS Element & Description	Project & Description
1		Thrust Pad Set	1	SET	1.000	0			
2		Guide Pad Set LGB	1	SET	1.000	0			

Remarks

Signature
(Site Engineer)

Signature
(Store Incharge)

North Eastern Electric Power Corporation Limited

Miniratna: Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

Materials Goods Receipt

Goods Receipt Number	5000012129	Goods Receipt Date	Dec 9, 2022
Consignee / Receiver Plant		1600 - DOYANG HYDRO ELECTRIC PLANT (DHEP)	
Consignee / Receiver Storage Location		-	
Delivery Note No		BP220320809	
Vendor Address		100977 - BHARAT HEAVY ELECTRCIALS LTD BHEL BHAWAN, 3RD FLOOR PLOT No. 9/1, DJ-BLOCK KOLKATA West Bengal	
Transporter Name		Transport Corporation	
Vehicle Number		MP04GB0632	
L.R No.			
L.R Date			
PO Number	3800000097	PO Date	Aug 9, 2021

S.No.	Material No.	Description	Qty Rcvd	UOM	Delivery Note Qty	Pending Po Qty	Valuation Type / Batch	WBS Element & Description	Project & Description
1		Generator Air cooler. Make: BHEL	6	NO	6.000	0			
2	75130010076190	TGB OIL COOLERS	6	NO	6.000	0	GD-NEW-PSP		

Remarks

Signature
(Site Engineer)

Signature
(Store Incharge)

North Eastern Electric Power Corporation Limited

Miniratna: Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

Materials Goods Receipt

Goods Receipt Number	5000010141	Goods Receipt Date	Sep 15, 2022
Consignee / Receiver Plant		1600 - DOYANG HYDRO ELECTRIC PLANT (DHEP)	
Consignee / Receiver Storage Location		-	
Delivery Note No		BP220320672	
Vendor Address		100977 - BHARAT HEAVY ELECTRCIALS LTD BHEL BHAWAN, 3RD FLOOR PLOT No. 9/1, DJ-BLOCK KOLKATA West Bengal	
Transporter Name		Transport corporation	
Vehicle Number		MP04GB0632	
L.R No.			
L.R Date			
PO Number	3800000097	PO Date	Aug 9, 2021

S.No.	Material No.	Description	Qty Rcvd	UOM	Delivery Note Qty	Pending Po Qty	Valuation Type / Batch	WBS Element & Description	Project & Description
1		Oil cooler for Bottom Bracket	6	NO	6.000	0			

Remarks

Signature
(Site Engineer)

Signature
(Store Incharge)

North Eastern Electric Power Corporation Limited

Miniratna: Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

Materials Goods Receipt

Goods Receipt Number	5000011170	Goods Receipt Date	Nov 5, 2022
Consignee / Receiver Plant		1600 - DOYANG HYDRO ELECTRIC PLANT (DHEP)	
Consignee / Receiver Storage Location		-	
Delivery Note No		BP220321063	
Vendor Address		100977 - BHARAT HEAVY ELECTRCIALS LTD BHEL BHAWAN, 3RD FLOOR PLOT No. 9/1, DJ-BLOCK KOLKATA West Bengal	
Transporter Name		Associated Road Carriers Limited	
Vehicle Number		NL01AB4848	
L.R No.			
L.R Date			
PO Number	3800000097	PO Date	Aug 9, 2021

S.No.	Material No.	Description	Qty Rcvd	UOM	Delivery Note Qty	Pending Po Qty	Valuation Type / Batch	WBS Element & Description	Project & Description
1		Guide Vane Set	1	SET	1.000	0			

Remarks

Signature
(Site Engineer)

Signature
(Store Incharge)

North Eastern Electric Power Corporation Limited

Miniratna: Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

Materials Goods Receipt

Goods Receipt Number	5000005751	Goods Receipt Date	Apr 28, 2022
Consignee / Receiver Plant		1600 - DOYANG HYDRO ELECTRIC PLANT (DHEP)	
Consignee / Receiver Storage Location		-	
Delivery Note No		IPMA/2223/0044	
Vendor Address		101583 - Industrial Pumps & Motors 40, Strand Road,4th Floor, Kolkata West Bengal	
Transporter Name		National Carrying Corporation	
Vehicle Number		AS03BC8569	
L.R No.			
L.R Date			
PO Number	3600000433	PO Date	Nov 15, 2021

S.No.	Material No.	Description	Qty Rcvd	UOM	Delivery Note Qty	Pending Po Qty	Valuation Type / Batch	WBS Element & Description	Project & Description
1		OPU Screw Pump, 240LPM , 40 Kgf/ cm²	2	NO	2.000	0			

Remarks

Signature
(Site Engineer)

Signature
(Store Incharge)

North Eastern Electric Power Corporation Limited

Miniratna: Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

Materials Goods Receipt

Goods Receipt Number	5000006156	Goods Receipt Date	Apr 20, 2022
Consignee / Receiver Plant		1600 - DOYANG HYDRO ELECTRIC PLANT (DHEP)	
Consignee / Receiver Storage Location		-	
Delivery Note No		GL/2021-22/54	
Vendor Address		100789 - GLOCON MANAB KALYAN NAAMGHAR ROAD TINSUKIA Assam	
Transporter Name		Jain Transworld.	
Vehicle Number		OD01A9514	
L.R No.			
L.R Date			
PO Number	3600000887	PO Date	Dec 3, 2020

S.No.	Material No.	Description	Qty Rcvd	UOM	Delivery Note Qty	Pending Po Qty	Valuation Type / Batch	WBS Element & Description	Project & Description
1		145KV SF6 CB (GO), Type: 120 SFM-40AA.	1	SET	1.000	0			
2		145KV SF6 CB (SPR) Type:120 SFM-40AA	1	SET	1.000	0			
3		36KV SF6 CB (GO) Type: 30 SFGP-25A	1	SET	1.000	0			

Remarks

Signature
(Site Engineer)

Signature
(Store Incharge)

G-15

OFFICE OF THE ASSISTANT COMMANDANT
CENTRAL INDUSTRIAL SECURITY FORCE
(MINISTRY OF HOME AFFAIRS)

CISF Unit DHEP Doyang
POST: Doyang
DISTT: Wokha (NL)
Dated 02 / 10/2018

NO.PR-42099/CISF/DHEP/QM/Mgt/2018- 2806

To

GENERAL MANAGER, HOP
DHEP NEEPCO Ltd. DOYANG

Sub: VARIOUS BASIC REQUIREMENTS OF SECURITY & INFRASTRUCTURE FOR CISF AS DISCUSSED ON MEETING HELD ON 26.05.18.

Kindly refer to your office letter no. NEEPCO/DHEP/HoP/Adm-7/2018-19/213 DATED 05.06.18. It is submitted that there are various urgent requirements of CISF which were discussed on meeting held on 26.05.18 which are as follows:-

SL NO	INFRASTRUCTURAL REQUIREMENTS FOR CISF	REMARKS
01	Repairing of wireless sets	As wireless system is the mode of communication for hourly report of CISF Headquarters hence the wireless sets are necessary to be replaced/repaired.
02	Metallic morchas available at NPH are vulnerable	Morchas at NPH are vulnerable and need to be fortified for safety of duty personnel. As discussed in meeting the repair work is pending.
03	Emergency Power Back up for Quarter Guard	2 emergency lights were to be provided by management but the same is still awaited.
04	Dining tables are broken & need to be replaced	2 nos of Dining table were to be provided by management but still the same haven't been provided yet.
05	Spacious and airy kitchen is to be constructed.	Floor of kitchen is fully damaged and one side of wall may displace due to weak base which is prone to mishappening. The same was decided to be repaired but it is still pending.
06	Condition of all toilets and septic tanks is very poor and pathetic.	All the septic tanks of barrack are full and need to be emptied and repaired as discussed in meeting. Toilets of upper barrack are broken and pipes are leaking which is creating unhygienic environment. The repair work is still pending
07	Family Accomodation condition is pathetic.	Repair of family accommodations is very urgent which was to be done in phase manner as discussed in meeting but the same is still pending.

Hence, it is requested that these basic requirements may kindly be fulfilled at the earliest for better environment of office and barrack living personnel.

Your early action and kind co-operation in this regard is highly solicited.

02.10.18

ASSISTANT COMMANDANT
CISF UNIT DHEP DOYANG (NL)

U.O.No DHEP/HOP/1299 Dtd 26/10/18

Copy to:

1) The DGM (HR) : For kind information and necessary action please.
2) Sr. Manager(IT) : -do-
3) Sr. Manager(Civil) : -do-
DHEP NEEPCO Ltd. Doyang

Sr. Mgr (E/M) We may discuss. It pending upon action taken in 251 ~ !

OFFICE OF THE ASSISTANT COMMANDANT
CENTRAL INDUSTRIAL SECURITY FORCE
(MINISTRY OF HOME AFFAIRS)

CISF UNIT DHEP DOYANG POST: DOYANG
DISTT: WOKHA (NL)

No.PR.42099/CISF/DHEP/QM/MGT/2020-258-(E) Dated : 14-07-2020

To,
THE GENERAL MANAGER, HOP
DHEP DOYANG NEEPCO LTD

Subject :- **REQUIREMENT & REPAIRING OF BASIC INFRASTRUCTURE FOR CISF MESS: REG.**

It is to bring your kind notice that cookhouse of Mandir Barrack was provided at the time of induction and since then no maintenance has been done till date. It's floor, ventilation, walls are totally damaged and especially wall is on the verge of collapse which may be occurred any untoward incident so the following repairing work is required for smooth running of CISF mess which is as follows:-

1. Wall & roof should be repaired, CGI sheet of the roof is rusted and the wall is cracked.
2. Electric wiring work should be disciplined.

03. Water for cooking food is impure in the absence of any water purifier, should be installed at least sand filter because in rainy season water comes very dirty which is not hygienic for cooking.

04. Electrically operated Chimney with Duct which would help in removing the heat and grime generated in the mess as exhaust fans are not sufficient for this purpose.

05. An electronic dishwasher which would be helpful for mess staff in washing utensils.

Therefore, it is requested matter may please be looked into and the same may be repaired on a priority basis.

An early action in this regard will be highly solicited.

Digitally signed by
SUNIL,
ASSTT.COMMANDANT/IT,
DHEP DOYONG,
14-07-2020

Copy to:-
THE ASSIST MANAGER (HR)
DHEP NEEPCO LTD. DOYANG

: FOR KIND INFORMATION AND NECESSARY ACTION PLEASE.

Web application developed by CISF, IT Cell

OFFICE OF THE ASSISTANT COMMANDANT
CENTRAL INDUSTRIAL SECURITY FORCE
(MINISTRY OF HOME AFFAIRS)

CISF UNIT DHEP Doyang
POST: DOYANG
DISTT: WOKHA (NL)
Dated: 12/05/2020

NO.PR-42099/CISF/DHEP/QM/Mgt/2020- 1316

To,
General Manager, HOP
DHEP Doyang NEEPCO Ltd.

Sub: ISSUES NEED IMMIDIATE ATTENTION.REG:-

It is bring to your kind notice that higher officials have visited CISF Unit DHEP Doyang, Nagaland and observed many issues which need to be required immediate attention to lack of basic infrastructure, operational and administrative requirements of CISF at DHEP Doyang like poor living condition of CISF personnel. As per MOU signed by NEEPCO with CISF, has to be provided all logistic infrastructure support to CISF for discharging its lawful duty & responsibility but hardly anything has been done. The particulars of the same areas under:-

SL.	DEMANDS OF CISF	MANAGEMENTS	REMARKS
1.	Strengthening of Fencing, and Provision of Bullet Proof Morchas at QG.	In this regarding for maintenance of all said amenities a series of protracted correspondences made by this office since long without any outcome.	
2.	Installation of Lights at backside of Quarter guard.		
3.	Construction of a room for Quarter Guard duty personnel.		
4.	Maintenance of all the Barracks which include disciplined work of electric.		
5.	Toilet/bathrooms repairing of Barracks.		
6.	Repairing of roof top of office complex and barracks.		
7.	Replacement of vehicles.		
8.	Computer and Printer needed.		
9.	Kitchen (MESS) Floor fully damaged.		
10.	Main Office which include Civil & Electrical works.		
11.	Supply of Recreational Facilities.		
12.	Repairing of Family Quarters.		
13.	Construction/repairing of Toilet at Main Office.		
14.	Providing of Communication System.		

The above mentioned infrastructural and logistic issues are seriously affecting the morale of men as we have to live in very inhuman condition.

Therefore, it is requested to you to take quick remedial action to resolve these issues related to logistic requirements of CISF within a fixed time frame and intimate to this office.

ASSISTANT COMMANDANT
CISF UNIT DHEP DOYANG (NL)

U.O. No. DHEP/HOP/ 84 Dtd 25/5/2020

DGM (UZWD)

As desired. Please submit report for issues at S.No: 2, 4, 10 & HOP, DHEP.
253

Anjani Kumar Singh
Inspector General

CISF

CISF NES HQrs ,
Hockey Stadium Road,
Near AG Colony, Beharbari,
Guwahati – 781029 (Assam)

Dispatch No. 604
24/2/2020

DO No.I-13019/VISIT IG/DHEP (D)PA/2020- 502 Dated - 17th February ,2020

Dear Shri V.K. Singhji

I would like to invite reference to telephonic discussion held during my recent visit to DHEP Doyang on 06.02.2020 regarding pending issues which require immediate attention, as these have not been addressed to since long. The Unit is located in an Isolated and highly sensitive/vulnerable area. I would like to pen down some of the major issues of the Unit for improving the operational and administrative efficiency of the unit, which needs your personal intervention:-

i) Repairing/replacement of communication system (viz; walkie talkie sets) and electronics gadgates (CCTVs,DFMDs etc.)
ii) Replacement of old Gypsyes provided to CISF.
iii) Computer and accessories for Quarter Guard for installation of Biometrics.
iv) Construction of a room for Quarter Guard duty personnel.
v) Construction of Ladies toilet at CISF Main office.
vi) Computer and accessories for CISF main office.
vii) Maitenance of Quarter Guard (Armourery) which include Civil & Electrical works, strengthening of Fencing, Installation of Lights, Provision of Bullet Proof Morchas.
viii) Maintenance/repairing of Cook House, all the Barracks,Main office and Family accommodation which includes Civil & Electrical
ix) Supply of recreational facilities to the barrack living Force personnel.
x) Establishment of a Gym with its accessories for Unit personnel.

Keeping in view of the security scenario and threat perception of the NER in general and and DHEP Doyang in particular, I would like to urge you to look into the matter personally and issue instructions to the authorities concerned for doing the needful on the above issues on priority please.

Your kind co-operation in this regard is highly solicited.

With warm regards,

Yours Sincerely
17-2-2020
(Anjani Kumar Singh)

Shri V K Singh,CMD
NEEPCO Ltd. Brookland Compound,
Lower New Colony,Shillong-793003.

HOP - Doyang - Pl. attend to these points.

c/o it on tour.

Forwarded to the GM(Tech), CHQ Shill. for kind appraisal of the CMD please.

25/2/2020

डॉ0के0सी0एस0 राय
उप महानिरीक्षक

Dr. K. C.S. RAY
DY.INSPECTOR GENERAL

दूरभाष–03772–252312(O), 252265 (R)
केन्द्रीय औद्योगिक सुरक्षा बल (गृह मंत्रालय)
तेल एवंप्राकृतिक गैस निगम,
नाजिरा, शिवसागर (असम)

Central Industrial Security Force
ONGC Nazira, PO: Nazira
Dist: Sivasagar, Assam-785 685
e-mail – ongc-nazira@cisf.gov.in

DO No. PR-13017/CISF/ONGC(N)/QM/2017/9764

Dated: 11th Sept. 2017

Dear Sir,

I would like to draw your kind attention to lack of basic infrastructure, operational and administrative requirements of CISF at DHEP, Doyang and a series of protracted correspondences made by Assistant Commandant CISF Unit DHEP Doyang with HOP NEEPCO, DHEP Doyang since long without any outcome (Copies of all correspondences are enclosed for ready reference).

02. Further, I myself saw the poor barrack living conditions during my annual inspection/visit to the unit in April-2017. In the above context, I would like to inform you that **Central Industrial Security Force** is deployed at DHEP Doyang with a strength of 124 personnel for protection of the installation since 1994. As per MOU signed by NEEPCO with CISF, NEEPCO management has to provide all logistic infrastructure support to CISF for discharging its lawful duty & responsibility but hardly anything has been done by NEEPCO management so far in this regard.

03. On dated 22.08.2017 **Shri A.N. Mahapatra, Inspector General, CISF, NES Hqrs, Kolkata** has visited CISF Unit DHEP Doyang, Nagaland and observed many issues like poor living condition of CISF personnel, broken bathrooms, no proper dining area, broken roofs of barracks etc. In 2015 also he had observed the same during his visit but since then, DHEP NEEPCO has not initiated any action to provide the basic amenities to CISF personnel. The Assistant Commandant CISF Unit DHEP Doyang has personally approached NEEPCO management countless times but no attention has been paid to genuine problems of CISF jawans. The above mentioned infrastructural and logistic issues are seriously affecting the morale of men as they have to live in a very inhuman condition.

04. Therefore, I request you to take quick remedial action to resolve these issues related to logistic requirements of CISF within a fixed time frame and intimate to this office for further submission to higher formations of CISF.

With regards,

Yours sincerely,

(Dr. K.C.S.RAY) 11/9/17

Encl: As above

To

Shri A.G. West Khar Kongarh,
CMD, NEEPCO,
Shillong.

ED (O&M)
It is requested that
w/advice may kindly be given
to HOP DHEP on the matter as CIS
is the main security
deployment in the project
2/9

Forwarded to E.D. (C&S)
for kind perusal.
25.9.17

HOP, DHE
As advised,
immediate a
shall be tak
be end Sept
office intimation to
18.9.17

OFFICE OF THE ASSISTANT COMMANDANT
CENTRAL INDUSTRIAL SECURITY FORCE
(MINISTRY OF HOME AFFAIRS)

CISF UNIT DHEP Doyang
POST: DOYANG
DISTT: WOKHA (NL)
Dated: 12/05/2020

NO.PR-42099/CISF/DHEP/QM/Mgt/2020- 1316

To,

General Manager, HOP
DHEP Doyang NEEPCO Ltd.

Sub: ISSUES NEED IMMIDIATE ATTENTION.REG:-

It is bring to your kind notice that higher officials have visited CISF Unit DHEP Doyang, Nagaland and observed many issues which need to be required immediate attention to lack of basic infrastructure, operational and administrative requirements of CISF at DHEP Doyang like poor living condition of CISF personnel. As per MOU signed by NEEPCO with CISF, has to be provided all logistic infrastructure support to CISF for discharging its lawful duty & responsibility but hardly anything has been done. The particulars of the same areas under:-

SL.	DEMANDS OF CISF	MANAGEMENTS	REMARKS
1.	Strengthening of Fencing, and Provision of Bullet Proof Morchas at QG.	In this regarding for maintenance of all said amenities a series of protracted correspondences made by this office since long without any outcome.	
2.	Installation of Lights at backside of Quarter guard.		
3.	Construction of a room for Quarter Guard duty personnel.		
4.	Maintenance of all the Barracks which include disciplined work of electric.		
5.	Toilet/bathrooms repairing of Barracks.		
6.	Repairing of roof top of office complex and barracks.		
7.	Replacement of vehicles.		
8.	Computer and Printer needed.		
9.	Kitchen (MESS) Floor fully damaged.		
10.	Main Office which include Civil & Electrical works.		
11.	Supply of Recreational Facilities.		
12.	Repairing of Family Quarters.		
13.	Construction/repairing of Toilet at Main Office.		
14.	Providing of Communication System.		

U.O. No. DHEP/HOP/ 84 ..... Dtd 20/5/2020

The above mentioned infrastructural and logistic issues are seriously affecting the morale of men as we have to live in very inhuman condition.

Therefore, it is requested to you to take quick remedial action to resolve these issues related to logistic requirements of CISF within a fixed time frame and intimate to this office.

ASSISTANT COMMANDANT
CISF UNIT DHEP DOYANG (NL)

DGM (HRWD)

As directed, please submit report on issues at S.No. 2, 4, 10 & 14 by DHEP

Anjani Kumar Singh
Inspector General

CISF

CISF NES HQrs.
Hockey Stadium Road,
Near AG Colony, Beharbari,
Guwahati – 781029 (Assam)

24/2/2020

DO No.I-13019/VISIT IG/DHEP (DYPA/2020- 502 Dated - 17 February ,2020.

Dear Shri V.K. Singhji

I would like to invite reference to telephonic discussion held during my recent visit to DHEP Doyang on 06.02.2020 regarding pending issues which require immediate attention, as these have not been addressed to since long. The Unit is located in an isolated and highly sensitive/vulnerable area. I would like to pen down some of the major issues of the Unit for improving the operational and administrative efficiency of the unit, which needs your personal intervention:-

i) Repairing/replacement of communication system (viz; walkie talkie sets) and electronics gadgates (CCTVs,DFMDs etc.)
ii) Replacement of old Gypsyes provided to CISF.
iii) Computer and accessories for Quarter Guard for installation of Biometrics.
iv) Construction of a room for Quarter Guard duty personnel.
v) Construction of Ladies toilet at CISF Main office.
vi) Computer and accessories for CISF main office.
vii) Maitenance of Quarter Guard (Armourery) which include Civil & Electrical works, strengthening of Fencing, Installation of Lights, Provision of Bullet Proof Morchas.
viii) Maintenance/repairing of Cook House, all the Barracks,Main office and Family accommodation which includes Civil & Electrical
ix) Supply of recreational facilities to the barrack living Force personnel.
x) Establishment of a Gym with its accessories for Unit personnel.

Keeping in view of the security scenario and threat perception of the NER in general and and DHEP Doyang in particular, I would like to urge you to look into the matter personally and issue instructions to the authorities concerned for doing the needful on the above issues on priority please.

Your kind co-operation in this regard is highly solicited.

With warm regards,

Yours sincerely
17-2-2020
(Anjani Kumar Singh)

Shri V K Singh,CMD
NEEPCO Ltd. Brookland Compound,
Lower New Colony,Shillong-793003.

HOP-Doyang
- Pl. attend to above points.

copy is on tour.
Forwarded to the GM(Tech), CHQ Shill. for kind appraisal of the CMD please.

25/2/2020 25/02/2020

OFFICE OF THE ASSISTANT COMMANDANT
CENTRAL INDUSTRIAL SECURITY FORCE
(MINISTRY OF HOME AFFAIRS)

CISF UNIT DHEP Doyang
POST: DOYANG
DISTT: WOKHA (NL)
Dated: 11 /10/2019

NO.PR-42099/CISF/DHEP/QM/Mgt/2019- 2853

To,

General Manager, HOP
DHEP Doyang NEEPCO Ltd.

Sub: CONSTRUCTION OF A ROOM INSIDE QUARTER GUARD: REG.

It is submitted that as per the SOP of the CISF Quarter Guard rest personnel have to be present inside the quarter guard and to be used as striking reserve as and when required. But in our existing quarter guard there is no such space or provision has been made available for them. The available space is used by the quarter guard on duty personnel. The quarter guard off duty personnel is being compelled to live in the recreation hall which is not advisable and even doesn't fulfill the purpose too.

02. It is, therefore requested that a room may be constructed inside the quarter guard which can accommodate at least 08 cots on priority basis please.

03. Your co-ordination in this regards is highly solicited please.

11.10.19
ASSISTANT COMMANDANT
CISF UNIT DHEP DOYANG (NL)

Copy to:-

1) The DGM (HR) : For kind information and necessary action please.
DHEP NEEPCO Ltd. Doyang

Feasibilities for cost of room may be seen & an estimate may be put up accordingly.

DGM(C) cc me

14.10.19,
Hop

Pl. do the needful in above & put up accordingly.

15/10/19

M(C)-I, P&B

Estimate put up

18/10/19

D.O. No. DHEP/HOP/1100 Dtd 14/10/19

~ 258 ~

डॉ0के0सी0एस0 राय
उप महानिरीक्षक

Dr. K. C.S. RAY
DY.INSPECTOR GENERAL

दूरभाष–03772–252312(O), 252265 (R)
केन्द्रीय औद्योगिक सुरक्षा बल (गृह मंत्रालय)
तेल एवंप्राकृतिक गैस निगम,
नाजिरा, शिवसागर (असम)

Central Industrial Security Force
ONGC Nazira, PO: Nazira
Dist: Sivasagar, Assam-785 685
e-mail – ongc-nazira@cisf.gov.in

Dated: 11th Sept. 2017

DO No. PR-13017/CISF/ONGC(N)/QM/2017/9764

Dear Sir,

I would like to draw your kind attention to lack of basic infrastructure, operational and administrative requirements of CISF at DHEP, Doyang and a series of protracted correspondences made by Assistant Commandant CISF Unit DHEP Doyang with HOP NEEPCO, DHEP Doyang since long without any outcome (Copies of all correspondences are enclosed for ready reference).

02. Further, I myself saw the poor barrack living conditions during my annual Inspection/visit to the unit in April-2017. In the above context, I would like to inform you that **Central Industrial Security Force** is deployed at DHEP Doyang with a strength of 124 personnel for protection of the installation since 1994. As per MOU signed by NEEPCO with CISF, NEEPCO management has to provide all logistic infrastructure support to CISF for discharging its lawful duty & responsibility but hardly anything has been done by NEEPCO management so far in this regard.

03. On dated 22.08.2017 **Shri A.N. Mahapatra, Inspector General, CISF, NES Hqrs, Kolkata** has visited CISF Unit DHEP Doyang, Nagaland and observed many issues like poor living condition of CISF personnel, broken bathrooms, no proper dining area, broken roofs of barracks etc. In 2015 also he had observed the same during his visit but since then, DHEP NEEPCO has not initiated any action to provide the basic amenities to CISF personnel. The Assistant Commandant CISF Unit DHEP Doyang has personally approached NEEPCO management countless times but no attention has been paid to genuine problems of CISF jawans. The above mentioned infrastructural and logistic issues are seriously affecting the morale of men as they have to live in a very inhuman condition.

04. Therefore, I request you to take quick remedial action to resolve these issues related to logistic requirements of CISF within a fixed time frame and intimate to this office for further submission to higher formations of CISF.

With regards,

Yours Sincerely,

(Dr. K.C.S.RAY) 11/9/17

Encl: As above

To

Shri A.G. West Khar Kongarh,
CMD, NEEPCO,
Shillong.

ED (O&M)
It is requested that
w/advice may kindly be given
to HOP DHEP on the matter as CIS
is the main security
deployment in the project
2019

19/9/17 1450

HOP, DHE
As advised,
immediate a
shall be tak
be end, 2nd
offic. intimation to

Forwarded to E.D. (C&S)
for kind perusal.
259
18-9-17

259
18/9/17
DGM

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

NO: NEEPCO/DHEP/DGM(E)/HGC(M)/2021-22/T-4/ 309 Date: 07/03/2022

To,

M/s Chindalia Industrial Products Ltd.,
C-23, Punit Industrial Permises CSL.,
Plot No. 11A-11D, M.I.D.C. T.T.C. Area,
Thane Belapur Road, Turbhe,
Navi Mumbai- 400705
Email: ciplimited@gmail.com, 02267104623

Sub: Detail Order for Supply, Installation & Commissioning of Hydraulic Torque Wrench with Square Drive Attachments for 3 X 25 MW Doyang Hydro Power Station, Doyang, Nagaland.

Ref: 1) N.I.B. No. 01/C&P/DHEP Dated 01/05/2021
2) Corrigendum No. 01 Dt. 06/05/2021
3) Your Offer No. CIPL/SG/NEEPCO/0036/2021-22 Dt. 22/05/2021
4) Our Email Dt. 04/12/2021
5) Your email Dt. 04/12/2021
6) LOI NO: NEEPCO/DHEP/DGM(E)/C&P/2021-22/Torque wrench/15 Date 15.12.2021
7) Your acceptance vide email Dt. 19/01/2022

Sir,

With reference to the above and in continuation to our LOI. NO: NEEPCO/DHEP/DGM(E)/C&P/2021-22/Torque wrench/15 Date 15.12.2021 the Corporation is pleased to place this detailed order as per the Scope and Terms and Conditions given below:-

1. **SCOPE:**
   Supply, Installation and Commissioning of hydraulic torque wrench with square drive attachments for tightening and loosening different type of Nuts as specified in the NIB. The scope shall include commissioning and demonstration including onsite training on of the products at Doyang Plant site.
2. **PRICES:** The Price for execution of the contract shall be as per Schedule of Items & Prices enclosed as Annexure-I in this order. The prices shall remain firm till completion of the contract.
3. **CONTRACT VALUE:** The Total Contract Value for the entire Scope of the Contract shall be Rs. 16, 40,287.00 (Rupees sixteen lakh forty thousand two hundred eighty seven) only inclusive of GST.
4. **COMPLETION PERIOD:** The entire scope of supply and work under this contract shall be completed within 90 (ninety) days from the date of issue of the LOI.
5. **DELAYS IN DELIVERY/COMPLETION:**

   Time is the essence of the contract. If the performance of the Contract is delayed beyond the time stipulated in the contract due to reasons attributable to the contractor, the Purchaser shall without prejudice, have the right to recover the damages for the breach of the Contract: -

   i) By reducing the Contract price by ½ (half) percent per week or part of

the week thereof as liquidated damage. The delay shall be reckoned for the period between the completion period as stipulated in the Contract and the actual time of completion, provided the reduction shall not, in any case, exceed 10 (ten) percent of the Contract value for supply, installation & commissioning.

ii) By canceling the Contract or a portion thereof and, if so desired, purchase or authorize the purchase of equipment not so delivered, or others of similar description, (where equipment exactly complying with particulars are not, in the opinion of the Purchaser, which shall be final, readily procurable) at the risk and cost of the Contractor.

iii) If the Contractor defaults in the performance of the Contract, the Purchaser shall have the right to ignore their Bid for any future purchase in the event their bid for the future purchase is evaluated to be lowest.

Where action is taken under sub clause (ii) above, the contractor shall be liable for any loss which the Purchaser may sustain on account of delay in completion of the contract and on account of getting the work done through any other agency. The contractor shall not be entitled to any gain on such purchase. Such purchase shall be in the entire discretion of the purchaser. It shall not be necessary for the purchaser to serve a notice of such purchase on the contractor.

6. INSURANCE

The consignments shall be duly insured by the Contractor against possible damage/loss during transit and installation. Insurance coverage shall be upto the successful commissioning of the equipment. Any loss/damage during transit shall be intimated to the Contractor within a reasonable period of time from the date of receipt of the consignment by the Consignee, and the Contractor shall take immediate action for replacement/rectification of the loss/damage. The Contractor shall have the sole liability/responsibility for settlement of claim with the under- writers towards loss/damage, if any, and, therefore, replacement/rectification of the loss/damage shall be made good immediately at no extra cost to the Purchaser and without waiting for settlement of claim. The insurance shall be in the joint name of NEEPCO & the Contractor.

7. PACKING AND MARKING

a. The Contractor shall properly paint, pack and crate the equipment/materials as per prescribed standards in force to protect them from any loss, damage, deterioration, etc. during transportation to site and storage at site till installation. The contractor shall be held responsible for all losses, damages, deterioration, etc. due to improper painting, packing, crating, etc.

b. The contractor shall notify the Purchaser of the date of dispatch of every consignment from his works and the expected date of arrival at destination for the information of the Purchaser.

c. Each bundle or package shall have the following markings on it:-

i. The name and address of the Consignee

ii. Destination

iii. Relevant marks, reference numbers etc. for identification

iv. Directions for handling the materials

d. Each package shall also be accompanied with detailed packing lists to facilitate checking up of the contents at the destination.

8. GUARANTEE/WARRANTY:

a. The Complete Hydraulic Torque Wrench set shall be guaranteed for a period of 18 (eighteen) months from the date of commissioning. Any defect which may occur during the period or which may arise from defective materials or workmanship shall be made good by the contractor immediately on notice at their cost. The contractor shall be fully responsible to replace the material or make good the system free of cost.

b. If it becomes necessary for the supplier to replace any defective parts, warranty shall apply on parts so replaced or renewed until the expiration of the above-mentioned period of guaranteed /warranty.

c. If any defect is not remedied within a reasonable time, the purchaser may proceed to do the work at the Contractor's risk and expenses but without prejudice to other rights which the purchaser may have against the Contractor in respect of such defects.

9. TERMS OF PAYMENT:

100% (Hundred percent) of the order value will be paid on receipt of materials in full and good condition and on successful installation and commissioning of the equipment. All payments due to the contractor shall be disbursed under e-payment mode. Bank charges shall be to the contractor's account.

The following information may be furnished for receiving payment through e-payment system:

1.	Name of Beneficiaries	2.	Name of Bank
3.	Branch of Bank	4.	IFSC Code of the Branch
5.	Account Number	6.	City/Town
7.	Fax and Telephone Numbers	8.	e-mail address.

10. Our GST Registration No. is: 13AAACN9991J1Z1.

11. DRAWING, DATA, OPERATION MANUALS:

The supplier shall furnish 3 (three) copies of operation manual in bound form covering installation, operation and maintenance of the equipment, Circuit Diagrams, drawings etc. The manuals will be in English.

12. FORCE MAJEURE:

The "Force Majeure" risks are those which are beyond the control of either the Corporation or the Contractor and are defined as below:

i. War (whether declared or not), hostilities, invasion, acts of foreign

enemies, rebellion, revolution, insurrection of military or usurped power, or civil war;

ii. Contamination by radio activity from any nuclear fuel, or from any nuclear waste or radioactive materials;

iii. Pressure waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds;

iv. Acts of God (like floods, Inundation, tornadoes, Storm/ Tempest/ Hurricane/ Typhoon/ Cyclone/ Lightning or other atmospheric disturbances, Earthquake, Landslide/ Rockslide/ Subsidence or any loss or damage caused by forces of nature);

v. Damages due to any Political or Religious incidence;

vi. Act of Terrorism;

vii. Riots or commotion or disorder, unless solely restricted to employees of the Contractor or his sub-contractors and arising from the conduct of the Works;

viii. Martial law, damage from aircraft, nuclear fission, nuclear reaction, nuclear radiation, or radioactive contamination;

ix. Fire (not caused by negligence of the Contractor/its Sub-contractors/ their personnel); and

x. Other such causes, 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.

Loss to any party due to occurrence of Force Majeure risk shall be borne by the respective Party. However, in the event of any damage caused to the Works by Force Majeure Risks, the Contractor upon receiving instructions from the Engineer- in-Charge, shall remove the debris and re-construct the Works, cost of which shall be paid by the Owner at the contract rates. If however, the Force Majeure events causing such damage are insurable, removal of debris and re-

construction/ repair shall also be done by the contractor upon receiving instructions from the Engineer- in-Charge at owner's cost and the claim proceeds received from the Insurer against such damage shall be passed on to the Owner.

Should there be a request for extension of time arising out of "Force Majeure", the same shall be considered in accordance with the provision of completion time and extension shall be granted but no compensation, whatsoever, will be allowed to the Contractor for the delay arising out of Force Majeure condition.

13. MATERIALS AND WORKMANSHIP/STANDARDS:

a. The Contractor shall have to guarantee that the equipment and materials shall be new and of best quality workmanship and the materials shall have no defect in design and or manufacture, shall meet the requirements of the specification and shall be, in all respects, suited for purposes intended.
b. The Contractor shall remedy, without any cost of the Purchaser, all defects in design, materials and workmanship which may develop under normal use and which have been called to the attention of the Contractor prior to the expiry of the warranty period.
c. Any equipment that fails more than 2 (two) times during defect liability period, shall not be repaired but replaced.

14. REJECTION OF DEFECTIVE MATERIALS:

If the equipment supplied, is found to be defective, or fails to function properly, the Purchaser shall give the Vendor notice stating the particulars of such defects and the Vendor shall forthwith replace the same to make it work satisfactorily without any extra cost to the purchaser. If the Vendor fails to do so within a reasonable time as may be decided by the Purchaser, the Purchaser may reject and replace the defective material at the risk and cost of the Vendor, so that the replaced material functions satisfactorily.

In case of such replacement by the Purchaser, the Vendor shall be liable to pay to the Purchaser the extra cost, if any, for such replacement

15. PATENT RIGHTS AND ROYALTIES:

Royalties and fees for patents covering materials, articles, apparatus, devices, equipment or processes used in the work shall be deemed to have been included in the Contract price. The Contractor shall satisfy all demands that may be made at any time for such royalties or fees and he alone shall be liable for any damages or claims for patent infringements and shall keep the Purchaser indemnified in that regard. The Contractor, shall, at his own cost and expense, defend all suit and proceeding that may be instituted for alleged infringements of any patent involved in the works and, in case of any award of damages, the Contractor shall pay for such awards. In the event of any suits or other proceedings instituted against the Purchaser, the same shall be defended at the cost and expense of the Contractor, who shall also satisfy / comply any decree, order or award made against the Purchaser. However, it shall be understood that no such work, material or thing has been used by the Purchaser for any purpose or any manner other than that for which they have been furnished and installed by the Contractor and specified under these specifications. Final payment to the Contractor by the Purchaser will not be made while any such suit or claim remains unsettled. In the event any apparatus or equipment or any part thereof, furnished by the Contractor, is in such suit or proceedings held to constitute infringement and its

use is enjoined, the Contractor shall, at his option, and his own expense, either procure for the Purchaser the right to continue use of said apparatus, equipment or part thereof, replace it with non- infringing apparatus, or equipment or modify it, so as to make it non-infringing.

16. INSPECTION AND TESTING:

The equipment and accessories on receipt in Purchaser's premises will be tested during and after installation and before "taking over" and if any equipment or part thereof are found to be defective, the same shall be replaced free of costs to the Purchaser

17. Engineer In-Charge/Consignee:-

Deputy General Manager (E/M),
Generator & Switch Yard Div.,
DHEP, NEEPCO Ltd.
Doyang, Wokha, Nagaland- 797100
Contact No: 9366114139, 9862769848
email: phnsvm_dhep@rediffmail.com

18. E-way Bill: Any road license and / or e-way bill, if necessary, shall be arranged by the Contractor at his own cost. However, if any documentary assistance is necessary to facilitate the transportation, this will be supplied by the Purchaser wherever possible.

19. Paying Authority:- The Deputy General Manager (F&A), DHEP, NEEPCO Ltd, Doyang, Nagaland.

20. Other Terms and Conditions: The Terms and Conditions of Notice Inviting Bids, Detailed Bid Document and Corrigenda thereto issued from time to time, if any, shall prevail for execution and completion of the entire Scope of contract in all respects.

Kindly acknowledge the receipt and acceptance of this order.

Yours faithfully,

(S.Patton)
Dy. General Manager (E/M)
Hydro Generation Circle,
Maintenance, DHEP: NEEPCO
Doyang, Wokha, Nagaland.

ANNEXURE-I

Schedule of Items and Prices:

Price: F.O.R. Doyang, Wokha, Nagaland.

Sl.No	Item Description	Unit	Qty.	Rate (Rs)	Amount (Rs)	GST (%)	Total Amount (Rs)
1	Supply of Square Drive hydraulic torque wrench/Power Head complete with Rachet link as per Technical Specification in Annexure- IV of the NIB.	Set	2	321235.00	642470.00	18%	758114.60
2	Sockets/Inserts set as per Technical Specification in Annexure- IV of the NIB.	Set	3	60203.00	180609.00	18%	213118.62
3	Reaction Arm	No	2	60205.00	120410.00	18%	142083.80
4	Supply of Pump Set/ Hydraulic powerpack for torque wrench as per Technical Specification in Annexure- IV of the NIB.	Set	1	326175.00	326175.00	18%	384886.50
5	Reaction Arm / Customised reaction arm	No	2	60205.00	120410.00	18%	142083.80
6	Packing & Forwarding	Lot	1	NIL			
7	Freight and transit insurance	Lot	1	NIL			

GRAND TOTAL = Rs. 16,40,287.00

(Rupees sixteen lakh forty thousand two hundred eighty seven) only

03/2022

(S.Patton)
Dy. General Manager (E/M)
Hydro Generation Circle,
Maintenance, DHEP: NEEPCO
Doyang, Wokha, Nagaland

Subject: Fw: Requirement of Double Pilot Valves of Brake and Jack Control Panel (for double acting brake)

"DHEP PH Maintenance" <phmsym_dhep@rediffmail.com>
Sent: Mon, 7 Oct 2024 16:25:23 GMT+0530
To: You

Sir,
Please see the trailing mail.

Regards,
DGM (E/M)
PPM Div.

From: "dhep contractprocurement" <dhep_cp@rediffmail.com>
Sent: Sat, 09 May 2020 16:01:40
To: <rgoyal@oewin.com>
Cc: <phmsym_dhep@rediffmail.com>
Subject: Fw: Requirement of Double Pilot Valves of Brake and Jack Control Panel (for double acting brake)

To
M/s Oriental Engineering Works Pvt.Ltd.,
Oriental Crossing, Industrial Area
Yamuna Nagar 135 001, (Haryana)

Kind attention: Shri Rajinder Goyal

Sir,
With reference to your trailing e mail dated Sat, 21 Sep 2019 11:46:01 IST, we would like to request you to kindly furnish the following information:

(i) Whether the Imported valve which you have said is similar to M/1704/33 and offered for supply by you can be fitted without making any modifications in the existing Brake and Jack panels of the Hydro Turbine Generator Units, each of 25 MW Rated Power, of DHEP, NEEPCO, Doyang, Nagaland.

(ii) Whether any modifications have to be made in the existing Brake and Jack panels to enable fitting of the Imported valve which is similar to M/1704/33, and if so, what are the modifications to be made in the existing Brake and Jack panels.

(iii) The drawings and technical specifications of the Imported valve offered for supply by you may please be sent to us.

(iv) As informed by you vide your e mail dated Sat, 21 Sep 2019 11:46:01 IST, the Double Pilot valve M/1704/33 is obsolete and no more available. However, you have offered to supply seal kits for the obsolete Double Pilot valve M/1704/33. As such your offer for seal kits may please be sent to us, also for our further needful.

(v) Scanned copies of drawings of the existing Brake and Jack panels have also been sent to you earlier. Images of the existing Brake and Jack panels have been sent to you earlier. Also, images of the existing Double Pilot Valves of Brake and Jack Control Panel (for double acting brake) have been sent to you earlier.

An early reply is requested.

The matter may please be treated as URGENT.

With kind regards.

Prasanjit Phookan
General Manager(E/M), HGC
DHEP, NEEPCO
Doyang, District Wokha
Nagaland-797100

Note: Forwarded message attached

-- Original Message --

From: "Rajender " rgoyal@oewin.com
To: dhep_cp@rediffmail.com
Cc: "Info - Oriental Engg. Works Pvt. Ltd." info@oewin.com
Subject: RE: Requirement of Double Pilot Valves of Brake and Jack Control Panel (for double acting

brake)

Dear
Sir,

Greetings!!

This
is in reference to telecon yesterday.

The
Double Pilot valve M/1704/33 has been obsolete and no more available.

For
this either we can offer you seal kit or Imported valve which is similar to
M/1704/33 but it is very expensive. The cost of each imported valve is Rs.54,000.00
each + GST extra ex-works Yamuna Nagar.

Please
confirm the acceptance of price so that we could send the official quotation.

Look
forward to hear from you soon.

Thanks
& Regards,

Rajender
Goyal

Oriental
Engineering Works Pvt.Ltd.

Oriental
Crossing, Industrial Area

Yamuna
Nagar 135 001 (Haryana)

INDIA

Tel
: +91-1732-251750, 651750 , 290750

Fax
: +91-1732-251757

Cell
: +91-9215551757

E-mail
: rgoyal@oewin.com

Web :
www.oewin.com

==========

OUR
GSTIN NO. 08AAACO8737D1ZI ARN NO. AA080117000645N Dated 02 January, 2017

==========

From: Info - Oriental
Engg. Works Pvt. Ltd. [mailto:info@oewin.com]

Sent: Thursday, September 05, 2019 9:37 AM

To: 'Rajender '

Subject: FW: Requirement of Double Pilot Valves of Brake and Jack Control Panel (for double acting brake)

From:
dhep_cp@rediffmail.com [mailto:dhep_cp@rediffmail.com]

Sent: Wednesday, September 04, 2019 9:05 PM

To: sales@oewin.com

Cc: info@oewin.com

Subject: Requirement of Double Pilot Valves of Brake and Jack Control Panel (for double acting brake)

To

M/s Oriental Engineering Works Pvt. Ltd.

Oriental Crossing, Industrial Area

Yamuna Nagar-135001

Haryana

Dear Sirs,

We intend to procure Double Pilot valves for the Brake and Jack Control Panels in each of the 3(three)

nos. 25 MW Bharat Heavy Electricals Limited (BHEL) make Hydro Turbine Generator Units in the Power

House of our 75 MW Doyang Hydro Electric Plant, North Eastern Electric Power Corporation Limited

(NEEPCO), Doyang, District Wokha, Nagaland.

The 3x25 MW Doyang Hydro Electric Plant was commissioned in the Year 2000 and the Brake and Jack

Control Panels were also supplied by BHEL, Bhopal.

There are 2(two) nos. Pilot Valves in each Unit and we intend to procure a total quantity of 8(eight)

nos. Pilot Valves as shown in the relevant drawing no. P/547.02 which is attached in our e mail no. 6

sent to you just a short while ago today, Wed, 04 Sep 2019 20:31:56 IST for your ready reference.

The item is Double Pilot Valve MV1704/33

MAKE: NUCON MARTONARE.

Ref. BHEL drawing no. 12570801005 REV. 03.

Ref. OEW drawing no. P/547.02

Quantity required:

We intend to procure a total quantity of 8(eight) nos. Pilot Valves for replacement of the old and used

Pilot valves , 2(two) nos. Pilot Valves for each Hydro Turbine Generator Unit, i.e total 6(six) nos.

Pilot Valves for 3(three) Units, and to keep 2(two) Pilot Valves in stock for any emergency use. The

Pilot Valves in each Unit have started to give frequent problems of late.

The images of the Pilot valves installed in our Brake and Jack Panels have been sent to you just a

short while ago vide the following e mails:

(i) e mail no.1 dated Wed, 04 Sep 2019 20:24:33 IST

(ii) e mail no.2 dated Wed, 04 Sep 2019 20:26:13 IST

(iii) e mail no.3 dated Wed, 04 Sep 2019 20:28:31 IST

(iv) e mail no.4 dated Wed, 04 Sep 2019 20:29:52 IST

(v) e mail no.5 dated Wed, 04 Sep 2019 20:31:02 IST

(vi) e mail no.6 dated Wed, 04 Sep 2019 20:31:56 IST

A few images of the Brake and Jack Control Panel (for double acting brake) are attached to this e mail.

You are requested to please send us an offer for our required Double Pilot Valves.

An early reply is requested.

With kind regards.

Prasenjit Phookan

General Manager(E/M)

HGC

DHEP, NEEPCO

Doyang

District Wokha

Nagaland

P.IN 797100

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

NO: NEEPCO/DHEP/DGM(E)/HGC(M)/2021-22/T-4/ 111 (A) Date 15.06.2021

To,

M/S Orential Engineering Works Pvt. Ltd.
Orential Chowk, E-4A,
Industrial Area, Yamuna Nagar- 135001
Haryana.
Email: rgoyal@oewin.com, sales@oewin.com, 9215551757

Sub: Supply Order for Brake and Jack Control Panel to Doyang Hydro Electric Plant, NEEPCO.

Ref: 1) Our email Dated:25.01.2021
2) Your Quotation No. SH/N/290121 Dt. 29/01/2021 & SH/NEEPCO/270521 Dt.27/05/2021
3) Our email Dt. 04/06/2021
4) Your email Dt. 05/06/2021

Sir,

With reference to the above, the Corporation is pleased to place this order on you for Supply & Installation and Commissioning of Brake and Jack Control Panel to 3 x 25 MW Doyang Hydro Electric Plant, NEEPCO" as per the Schedule of Item and the Prices in the enclosed Annexure-A and other Terms and Conditions as indicated below:

Terms and Conditions:

1. **Scope:** Supply & Installation and Commissioning of Brake and Jack Control Panel to 3 x 25 MW Doyang Hydro Electric Plant.
2. **Price:** The Price of the items indicated in the "**Schedule of Item and Prices (Annexure-A)**" enclosed in this order are Ex-Works Yamuna Nagar and exclusive of GST and Freight and Transit Insurance. The price shall remain firm till completion of the order.
3. **GST:** @18%.
4. **Our GST Registration No. is: 13AACN9991J1ZI.**
5. **Completion period**: The entire scope of work shall be completed within 6 (six) months from the date of issue of this order.
6. **Payment Terms**:
   i) **Supply Part:** 100% (hundred percent) of the material cost with all applicable taxes along with Insurance & freight charges will be released after receipt of materials in full and good condition at site and issuance of necessary acceptance certificate from the Engineer-in-charge/Consignee. For releasing the payment, the supplier has to submit tax invoice in triplicate to the Engineer-in-charge/Consignee along with delivery challan, Warranty certificate, Drawings/manuals etc.
   ii) Freight & Transit Insurance charges shall be paid at actual on submission of documentary proof.
   Payment will be made through RTGs/NEFT. Bank charges, if any, for the payment will be on your account. The following information may be furnished for receiving payment through e-payment system:

1.	Name of Beneficiaries	2.	Name of Bank
3.	Branch of Bank	4.	IFSC Code of the Branch
5.	Account Number	6.	City/Town
7.	Fax and Telephone Numbers	8.	e-mail address.

iii) **Installation & Commissioning Charges:** 100% (hundred percent) of the installation and commissioning charges shall be paid on successful installation and commissioning of the Brake and Jack Control Panel and on submission of Bank Guarantee (BG) equivalent to 3% (three percent) of the total contract value, i.e. Rs. 63585.00 (Rupees sixty three thousand five hundred eighty five) only. The Bank Guarantee shall be valid for a period of 15(fifteen) months. The Bank Guarantee shall be acceptable only if it is issued by a Nationalized / Scheduled Bank in India. The prescribed format for the Bank Guarantee for Contract performance is enclosed as Annexure – II. The Bank Guarantee will be returned to the Contractor without any interest after expiry of the warranty period, subject to fulfilment of the terms and conditions in all respects.

7. **Liquidated Damage (LD):** If the performance of the Contract is delayed beyond the time stipulated in the contract due to reasons attributable to the contractor, the Purchaser shall without prejudice, have the right to recover the damages for the breach of the Contract @ 0.5% per week delay subject to a maximum of 10% of the contract value.
8. **E-way Bill:** Any road license and / or e-way bill, if necessary, shall be arranged by the Contractor at his own cost. However, if any documentary assistance is necessary to facilitate the transportation, this will be supplied by the Purchaser wherever possible.
9. **Materials and Workmanship/Standards:** The Contractor shall have to guarantee that the equipment and materials shall be new and of best quality workmanship and the materials shall have no defect in design and or manufacture, shall meet the requirements of the specification and shall be, in all respects, suited for purposes intended. The Contractor shall remedy, without any cost of the Purchaser, all defects in design, materials and workmanship which may develop under normal use and which have been called to the attention of the Contractor prior to the expiry of the warranty period.
10. **Rejection of Defective Materials**: If the equipment supplied, is found to be defective, or fails to function properly, the Purchaser shall give the Vendor notice stating the particulars of such defects and the Vendor shall forthwith replace the same to make it work satisfactorily without any extra cost to the purchaser. If the Vendor fails to do so within a reasonable time as may be decided by the Purchaser, the Purchaser may reject and replace the defective material at the risk and cost of the Vendor, so that the replaced material functions satisfactorily. In case of such replacement by the Purchaser, the Vendor shall be liable to pay to the Purchaser the extra cost, if any, for such replacement.
11. **Guarantee/Warranty**: The material must be guaranteed of cover against manufacturing/ design defects for a period of 12 (twelve) months from the date of commissioning or 18 months from the date of receipt at site whichever is earlier.
12. **Packing, Marking and Forwarding:** The Contractor shall properly paint, pack and crate the equipment/materials as per prescribed standards in force to protect them from any loss, damage, deterioration, etc. during transportation to site and storage at site till installation. The contractor shall be held responsible for all losses, damages, deterioration, etc. due to improper painting, packing, crating, etc. The contractor shall

notify the Purchaser of the date of dispatch of every consignment from his works and the expected date of arrival at destination for the information of the Purchaser.

Each bundle or package shall have the following markings on it: -

i) The name and address of the Consignee

ii) Destination

iii) Relevant marks, reference numbers etc. for identification

iv) Directions for handling the materials

v) Each package shall also be accompanied with detailed packing lists to facilitate checking up of the contents at the destination.

13. **User Manual:** The supplier shall furnish 2 (two) copy of operation manual in bound form covering installation, operation and maintenance of the equipment. The manuals will be in English.
14. **Lodging & Local Conveyance:** Free Accommodation at the company's guest house at site shall be provided by M/s NEEPCO and Free local transportation shall be arranged by M/s NEEPCO, DHEP for movement of your service personnel from guest house to site and vis versa. All component required for installation and commissioning will be arranged by NEEPCO.
15. **Test Report/Certificates:** Test Report, if any, to be submitted along with the bill.
16. **Force Majeure:** The "Force Majeure" risks are those which are beyond the control of either the Corporation or the Contractor and shall be applicable as defined in NEEPCO's standard "Force Majeure" clause. 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 this obligations under this Agreement and if such party gives to the other party written notice of the event within. Neither party shall be liable to the party for loss or damage sustained by the other party arising from any event. The term "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.
17. **PATENT RIGHTS AND ROYALTIES:** Royalties and fees for patents covering materials, articles, apparatus, devices, equipment or processes used in the work shall be deemed to have been included in the Contract price. The Contractor shall satisfy all demands that may be made at any time for such royalties or fees and he alone shall be liable for any damages or claims for patent infringements and shall keep the Purchaser indemnified in that regard. The Contractor, shall, at his own cost and expense, defend all suit and proceeding that may be instituted for alleged infringements of any patent involved in the works and, in case of any award of damages, the Contractor shall pay for such awards. In the event of any suits or other proceedings instituted against the Purchaser, the same shall be defended at the cost and expense of the Contractor, who shall satisfy / comply any decree, order or award made against the Purchaser. However, it shall be understood that no such work, material or thing has been used by the Purchaser for any purpose or any manner other than that for which they have been furnished and installed by the Contractor and specified under these specifications. Final payment to the Contractor by the Purchaser will not be made while any such suit or claim remains unsettled. In the event any apparatus or equipment or any part thereof, furnished by the Contractor, is in such suit or proceedings held to constitute infringement and its use is enjoined, the Contractor shall, at his option, and his own

expense, either procure for the Purchaser the right to continue use of said apparatus, equipment or part thereof, replace it with non-infringing apparatus, or equipment or modify it, so as to make it non-infringing.

18. **Consignee/Engineer In-Charge**:
Deputy General Manager (E/M),
Generator & Switch Yard Div.,
DHEP, NEEPCO Ltd,
Doyang, Wokha, Nagaland- 797100
Contact No: 9366114139, 9862769848
email: phnsym_dhep@rediffmail.com

19. **Paying authority**: Deputy General Manager (F&A), DHEP, NEEPCO Ltd, Doyang, Nagaland.

Kindly acknowledge the receipt and acceptance of this order.

Yours faithfully,

15/06/2021

(S.Patton)
Dy. General Manager (E/M)
Hydro Generation Circle,
Maintenance, DHEP: NEEPCO
Doyang, Wokha, Nagaland.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

Annexure-A

Schedule of Item and Prices:

A) Supply Part:

Sl .No	Scope of supply	Unit	Qty	Rate(Rs)	Total Amount(Rs.)
1.	Tangee OEW Double Acting Brake and Control Panel as per drawing No. P/1343.	Set	3	450000.00	1350000.00
2.	Solenoid Valve	No	4	19500.00	78000.00
3.	Manual Spool Valve	No	1	2050.00	2050.00
4.	Shuttle Valve	No	1	3550.00	3550.00
5.	Pilot Valve	No	2	21500.00	43000.00
6.	Non Return Valve	No	1	1800.00	1800.00
7.	Pressure Gauge	No	1	9500.00	9500.00
8.	Pressure Switch	No	2	11500.00	23000.00
9.	FRL Combinator	No	1	12000.00	12000.00
10.	Cartridge type fuse	No	2	300.00	600.00
11.	Indicating Lamp (green)	No	2	450.00	900.00
12.	Indicating Lamp (red)	No	4	450.00	1800.00
				Sub Total	**1526200.00**
				GST @18%	**274716.00**
				Sub Total (A)	**1800916.00**
				(Rupees eighteen lakh nine hundred sixteen) only	

B) Installation and Commissioning Part:

Sl .No	Scope of Work	Unit	Qty	Rate(Rs)	Total Amount(Rs.)
1.	Installation and Commissioning Charges for Brake and Control Panel.	No	3	90000.00	270000.00
				GST @18%	48600.00
				Sub Total (B)	318600.00

Grand Total: Sub Total (A)+ Sub Total (B)
Grand Total: Rs. 21,19,516.00 (Rupees twenty one lakh nineteen thousand five hundred sixteen) only.

15/06/2021

(S.Patton)
Deputy General Manger (E/M)
HGC, Maintenance I/C
DHEP, NEEPCO Ltd., Doyang.
Wokha, Nagaland.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

No. NEEPCO/DHEP/DGM(E/M)/HGC(M)/T-4/2021-22/ 46 Date: 13/05/2021

To,

M/s Pinkcity Technologies Pvt. Ltd.,
SE-10, Military Lane,
Opposite Heerapura Power House,
Ajmir Road,
Jaipur-302021
Email: anant@pinkcitytechnologies.com
Kind Attn: Mr. Anant Mishara, 9414058290

SUB: Order for supply of Doble, USA make Tan Delta & Capacitance Measurement Kit for Doyang HE Plant, Doyang, Nagaland

Ref: 1. Our enquiry vide Email Dated 18/04/2021
2. Your offer No. PTPL/P1402/2021-22/10 Dt. 19/04/2021

Dear Sir (s),

We are pleased to place this order for supply and commissioning of 1(one) set Tan Delta and Capacitance Measurement kit (Model: M4100, Make : Doble- USA) for Doyang HE Plant , Doyang , Nagaland as per scope and terms & conditions detailed below:

Sl.No	Description	Qty.	Unit Price(Rs)	Total Price (Rs)
1	Tan Delta and Capacitance Measurement Kit, (Make: Doble, USA, Model: M4100 with standard accessories including freight, insurance & training)	01 Set	29,50,000.00	29,50,000.00
2	M4100 Transportation Case (Part no:903-0031)	01 Set	1,24,000.00	1,24,000.00
Sub Total				*30,74,000.00*
GST @ 18%				5,53,320.00
Grand Total				**36,27,320.00**
(Rupees thirty six lakh twenty seven thousand three hundred twenty) only				

TERMS AND CONDITIONS:

1. Scope: The Scope includes supply, commissioning and imparting training for 2 (two) days of 1(one) set Tan Delta Measurement Kit, Model: M4100, Make: Doble USA for Doyang HE Plant, Doyang, Nagaland.
2. Price: The total price is Rs.36, 27,320.00 (Rupees Thirty Six Lakh Twenty Seven thousand Three hundred and Twenty) only including GST @ 18%. The price is FOR destination basis.
1. Payment Terms: 100% payment along with taxes shall be paid with 30 days from the date of successful completion of supply, commissioning and training. The tax invoice in triplicate to be submitted to the consignee for effecting payment. The payment shall be released through RTGS/ NEFT; as such, bank details shall be furnished along with the tax invoice. Please provide your GST number in the bill.

3. Contract Performance Guarantee(CPG) : An amount equivalent to 3% (Three Percent) of the total order value shall be furnished as Contract Performance Guarantee in the form of Bank Guarantee from a Nationalized / Scheduled Bank of India as per the format attached herewith as Annexure-I. The Performance Guarantee shall be valid for such period to cover 90 days beyond the warranty period. The Contract Performance Guarantee shall additional cover the following guarantee to the purchaser.

a) The Supplier guarantees successful and satisfactory operation of the equipment/ material supplied under the scope of supply.
b) The Supplier further guarantees that the equipment / material supplied or provided shall be new and shall be free from all defects.

The Contract Performance Guarantee shall be returned / released to the Supplier without any interest at the end of the stipulated period subject to fulfillment of all obligations.

4. Completion Period: The supply, installation & commissioning including training to completed within 10 (ten) weeks from the date of this supply order.
5. Consignee: The materials shall be consigned to the addressed given below:
   The DGM (E/M),
   G&SY Division,
   DHEP, NEEPCO Ltd., Doyang, PIN: 797100
   Dist-Wokha , Nagaland.
   Contact No: 9366114139, 9862769848, 8787513232
   email: plmsym_dhep@rediffmail.com
6. Paying Authority: The Dy.General Manager (F), F&A Wing, Doyang HE Plant, Doyang, Nagaland.
7. Liquidated Damage: In case of any delay in completion beyond the stipulated time period as per order due to reasons attributable to the supplier, the supplier will be liable for payments as liquidated damages not as penalty, for the delay @ 0.5% (half percent) of the Total Contract Value per week or part thereof with a maximum of 10 % (ten percent) of the Total Contract Value. However, even after imposition of this clause by the Purchaser, the supplier should take all necessary steps for completion of the contract as the earliest.
8. Warranty: The Supplier shall provide warranty for a period of 12(twelve) months from the date of commissioning
   We request you to acknowledge receipt of this supply order along with unconditional acceptance.

Thanking you,

Enclosed: Annexure-I

Yours faithfully,

13/05/201

(S. Patton)
Dy.General Manager (E/M)
HGC(M),DHEP,NEEPCO,
Doyang, Wokha, Nagaland

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

NO: NEEPCO/DHEP/DGM(E)/HGC(M)/2021-22/T-4/ Date 02.06.2021

To,

M/S GLOCON,
Manav Kalyan Namghar Road
Near Namghar
Tinsuskia 786125, Assam.
Email: gloconpk@rediffmail.com, 9706076203 (M)

Sub: Order for "Design, Manufacturing, Shop Testing, Supply & Delivery 145 kV, 800 A, 600 CT TRANSFORMER BUSHING RIP to Doyang Hydro Electric Plant, NEEPCO".

Ref: 1) Our Letter No. NEEPCO/DHEP/HGC/T-4/2021-22/38 Dated:21.04.2021
2) M/S Yash Highvoltage Limited Quotation No. Q03723 Dt. 03/05/2021
3) Our email Dt. 17/05/2021
4) M/S Yash Highvoltage Limited Quotation No. Q03723, Revision No.01 Dt. 20/05/2021 & email Dt. 20/05/2021
5) Our email dt. 21/05/2021.
6) Your email Dt. 21/05/2021.

Sir,

With reference to the above, the Corporation is pleased to place this order on you for awarding the contract for "Design, Manufacturing, Shop Testing, Supply & Delivery of 145 KV, 800A, 600 CT Transformer Bushing, Resin Impregnated Paper (RIP) to Doyang Hydro Electric Plant, NEEPCO" as per the Schedule of Item and the Prices in the enclosed Annexure-A and the technical specification enclosed in Annexure- I, and other Terms and Conditions as indicated below:

Terms and Conditions:

1. **Price:** The Price of the items are indicated in the "**Schedule of Item and Prices (Annexure-A)**" enclosed in this order are FOR Doyang, and is inclusive of Freight and Transit Insurance and GST. The price shall remain firm till completion of the order.
2. **GST:** @18%.
3. **Our GST Registration No. is: 13AACN9991J1Z1.**
4. **Scope of Supply:** Design, Manufacturing, Shop Testing, Supply & Delivery of 145 KV, 800A, 600 CT Transformer Bushing, RIP to Doyang Hydro Electric Plant, NEEPCO.
5. **Technical Specifications:** As per Annexure- I (enclosed)
6. **Delivery period:** Delivery within 16 (sixteen) weeks from the date of issue of this order.
7. **Payment Terms:**
   i) 90% (ninety percent) Payment with applicable taxes along with Insurance & freight charges will be released after receipt of materials in full and good condition at site and issuance of necessary acceptance certificate from the Engineer-in-charge/Consignee. For releasing the payment, the supplier has to submit tax invoice in triplicate to the Engineer-in-charge/Consignee along with delivery challan, Warranty certificate, test certificate of the materials and manuals etc. Payment will be made through RTGs/NEFT. Bank charges, if any, for the payment will be on your account. The following information may be furnished for receiving payment through e-payment system:

1.	Name of Beneficiaries	2.	Name of Bank
3.	Branch of Bank	4.	IFSC Code of the Branch
5.	Account Number	6.	City/Town
7.	Fax and Telephone Numbers	8.	e-mail address.

ii) Remaining 10% (ten percent) shall be paid on successful installation and commissioning of the bushings. In case the bushings cannot be installed within 3 (three) months on receipt at site, which is not attributable to contractor, the remaining 10% payment shall be released on submission of Bank Guarantee equivalent to the remaining 10%, which shall be valid for a period of 12 months. The Bank Guarantee shall be acceptable only if it is issued by a Nationalized / Scheduled Bank in India. The prescribed format for the Bank Guarantee for Contract performance is enclosed as Annexure – II. The Bank Guarantee will be returned to the Contractor without any interest after expiry of the warranty period, subject to fulfilment of the terms and conditions in all respects.

8. **Liquidated Damage (LD):** If the performance of the Contract is delayed beyond the time stipulated in the contract due to reasons attributable to the contractor, the Purchaser shall without prejudice, have the right to recover the damages for the breach of the Contract @ 0.5% per week delay subject to a maximum of 10% of the contract value.
9. **E-way Bill:** Any road license and / or e-way bill, if necessary, shall be arranged by the Contractor at his own cost. However, if any documentary assistance is necessary to facilitate the transportation, this will be supplied by the Purchaser wherever possible.
10. **Materials and Workmanship/Standards:** The Contractor shall have to guarantee that the equipment and materials shall be new and of best quality workmanship and the materials shall have no defect in design and or manufacture, shall meet the requirements of the specification and shall be, in all respects, suited for purposes intended. The Contractor shall remedy, without any cost of the Purchaser, all defects in design, materials and workmanship which may develop under normal use and which have been called to the attention of the Contractor prior to the expiry of the warranty period.
11. **Rejection of Defective Materials**: If the equipment supplied, is found to be defective, or fails to function properly, the Purchaser shall give the Vendor notice stating the particulars of such defects and the Vendor shall forthwith replace the same to make it work satisfactorily without any extra cost to the purchaser. If the Vendor fails to do so within a reasonable time as may be decided by the Purchaser, the Purchaser may reject and replace the defective material at the risk and cost of the Vendor, so that the replaced material functions satisfactorily. In case of such replacement by the Purchaser, the Vendor shall be liable to pay to the Purchaser the extra cost, if any, for such replacement.
12. **Guarantee/Warranty**: The material must be guaranteed of cover against manufacturing/ design defects for a period of 12 (twelve) months from the date of commissioning or 18 months from the date of receipt at site whichever is earlier.
13. **Inspection:** Inspection and witnessing of the testing of the 145 KV, 800 A, 600 CT RIP bushing shall be done by the inspector / technical representative of NEEPCO at the works of M/s Yash Highvoltage Limited prior to dispatch. All the 9 (nine) sets RIP bushings shall be offered in one lot for inspection, if required, at the works of M/s Yash Highvoltage Limited.

M/s Yash Highvoltage Limited or M/s Glocon shall intimate to this office well in advance regarding readiness of the equipment so that our representative can be deputed for inspection. All the arrangement for inspection and testing shall be done by M/s Yash Highvoltage Limited, however, the corporation reserves the right to waive this inspection. The waiver of inspection by the technical representative / inspector of NEEPCO and also waiver of witnessing of tests by the technical representative / inspector of NEEPCO shall not relieve M/s Yash Highvoltage Limited or M/s Glocon in any way of the responsibility of supplying the 145 KV, 800 A, 600 CT RIP bushing strictly in accordance with the technical specifications of this order. In any case, M/s Glocon shall remain fully responsible for supply of 145 KV, 800 A, 600 CT RIP bushing as per the agreed Technical Specification.

14. **Packing, Marking and Forwarding:** The Contractor shall properly paint, pack and crate the equipment/materials as per prescribed standards in force to protect them from any loss, damage, deterioration, etc. during transportation to site and storage at site till installation. The contractor shall be held responsible for all losses, damages, deterioration, etc. due to improper painting, packing, crating, etc. The contractor shall notify the Purchaser of the date of dispatch of every consignment from his works and the expected date of arrival at destination for the information of the Purchaser.

    Each bundle or package shall have the following markings on it: -

    i) The name and address of the Consignee

    ii) Destination

    iii) Relevant marks, reference numbers etc. for identification

    iv) Directions for handling the materials

    v) Each package shall also be accompanied with detailed packing lists to facilitate checking up of the contents at the destination.

15. **User Manual:** The supplier shall furnish 2 (two) copy of operation manual in bound form covering installation, operation and maintenance of the equipment. The manuals will be in English.
16. **Test Report/Certificates:** All Test Report to be submitted along with the bill.
17. **Drawings:** All Drawings to be submitted for approval.
18. **Force Majeure:** The "Force Majeure" risks are those which are beyond the control of either the Corporation or the Contractor and shall be applicable as defined in NEEPCO's standard "Force Majeure" clause. 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 this obligations under this Agreement and if such party gives to the other party written notice of the event within. Neither party shall be liable to the party for loss or damage sustained by the other party arising from any event. The term "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.
19. **PATENT RIGHTS AND ROYALTIES:** Royalties and fees for patents covering materials, articles, apparatus, devices, equipment or processes used in the work shall be deemed to have been included in the Contract price. The Contractor shall satisfy all demands that may be made at any time for such royalties or fees and he alone shall be liable for any damages or claims for patent infringements and shall keep the Purchaser indemnified in that regard. The Contractor, shall, at his own cost and expense, defend

all suit and proceeding that may be instituted for alleged infringements of any patent involved in the works and, in case of any award of damages, the Contractor shall pay for such awards. In the event of any suits or other proceedings instituted against the Purchaser, the same shall be defended at the cost and expense of the Contractor, who shall satisfy / comply any decree, order or award made against the Purchaser. However, it shall be understood that no such work, material or thing has been used by the Purchaser for any purpose or any manner other than that for which they have been furnished and installed by the Contractor and specified under these specifications. Final payment to the Contractor by the Purchaser will not be made while any such suit or claim remains unsettled. In the event any apparatus or equipment or any part thereof, furnished by the Contractor, is in such suit or proceedings held to constitute infringement and its use is enjoined, the Contractor shall, at his option, and his own expense, either procure for the Purchaser the right to continue use of said apparatus, equipment or part thereof, replace it with non-infringing apparatus, or equipment or modify it, so as to make it non-infringing.

20. Consignee/Engineer In-Charge:

Deputy General Manager (E/M),
Generator & Switch Yard Div.,
DHEP, NEEPCO Ltd,
Doyang, Wokha, Nagaland- 797100
Contact No: 9366114139, 9862769848
email: phnsym_dhep@rediffmail.com

21. Paying authority: Deputy General Manager (F&A), DHEP, NEEPCO Ltd, Doyang, Nagaland.

Kindly acknowledge the receipt and acceptance of this order.

Yours faithfully,

(S.Patton)
Dy. General Manager (E/M)
Hydro Generation Circle,
Maintenance, DHEP: NEEPCO
Doyang, Wokha, Nagaland.

Memo NO: NEEPCO/DHEP/DGM(E)/HGC(M)/2021-22/T-4/ Date 02.06.2021

Copy to:

1) M/s Yash Highvoltage Ltd. First Floor, Chitrakut Complex, Natubhai Circle, Above RBL Bank, Race Course, Vadodara – 39007, Gujarat, for kind information.

Dy. General Manager (E/M)
Hydro Generation Circle,
Maintenance, DHEP: NEEPCO
Doyang, Wokha, Nagaland.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP; DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in. E-mail: hgc_dhep@rediffmail.com

NIO:
Memo NO: NEEPCO/DHEP/DGM(E)/HGC(M)/2021-22/T-4/ 77 - 82 Date 02.06.2021

Copy to:

1. The Chief General Manager (O&M) for favour of kind information please. This has reference to his approval conveyed *vide email dt. 02/06/2021.*
2. The HOP, DHEP, for favour of kind information please.
3. The Deputy General Manager (F&A), DHEP for information & necessary action please.
4. The DGM (E), G&SY Div. for information and necessary action please
5. The DGM (C), Vigilance, for information please
6. The Manager (E), Power House Maintenance I/C, G & SY Div. for information and necessary action.

02/06/2021

Dy. General Manager (E/M)
Hydro Generation Circle,
Maintenance, DHEP: NEEPCO
Doyang, Wokha, Nagaland.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: WOKHA: NAGALAND
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

Annexure-A

Schedule of Item and Prices:

Sl .No	Scope of supply	Unit	Qty	Rate(Rs)	Total Amount(Rs.)
1.	145 KV, 800 A, 600 CT TRANSFORMER BUSHING RIP along with arcing horns & copper thimble etc. confirming to technical specification in Annexure-I. Make: Yash Highvoltage Limited	Set	9	610000.00	5490000.00
2.	Long term metallic protective tank filled with oil.	No	9	55000.00	495000.00
				Sub Total (A)	**5985000.00**
				Freight and transit insurance	**175000.00**
				Sub Total (B)	**6160000.00**
				GST @18%	**1108800.00**
				Grand Total	**7268800.00**

(Rupees seventy two lakhs sixty eight thousand eight hundred only).

07/06/2021

(S.Patton)
Deputy General Manger (E/M)
HGC, Maintenance I/C
DHEP, NEEPCO Ltd., Doyang.
Wokha, Nagaland.

Annexure-I

Technical Specification of Resin Impregnated Paper (RIP) Transformer Bushing

Resin Impregnated Paper (RIP) Transformer Bushing shall comply the following specification:

1) Rated Voltage (L-L): 145 kV
2) Rated Voltage (L-E): 84 kV
3) Rated Current: 800 A
4) Rated Frequency: 50-60 Hz
5) Connection: Draw Lead Type
6) Active Part Length: 1100 mm
7) CT space: 600mm
8) Diameter of active Part: 109 mm
9) Minimum Creepage Distance: › 4495 mm
10) Total Length- 2905 mm (approx.)
11) 1 (one) minute Dry Withstand Test: 305 KV
12) 1 (one) minute Wet Withstand Test: 275 KV
13) Full Wave Impulse Withstand Test (BIL): 650 KVp
14) Rated Short-circuit current: 25kA for 2 sec
15) Condenser Core/Insulation: RIP
16) Ambient Temperature: -20 to +50 ° C
17) Cantilever test load: 3150 N, 60 second
18) Maximum mounting angle to vertical: 90 °
19) Mounting Flange:
    i) Diameter: 335mm
    ii) PCD: 290mm with 12 hole of 15 mm diameter and air vent plug
    iii) Air vent plug
    iv) Test Tap assy
20) Inside tube diameter: 38 mm
21) Air End HV Terminal diameter: 30 mm
22) Weight: 75 Kg (approx.)
23) Applicable Standard – IEC: 60137 (2017)

12/06/2021

Dy. General Manager (E/M)
Hydro Generation Circle-II
(Maintenance)
DHEP, NEEPCO Ltd.
Dimapur, Nagaland

रजिस्ट्री सं. डी.एल.-33004/99 REGD. No. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

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असाधारण
EXTRAORDINARY

भाग III—खण्ड 4
PART III—Section 4

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं. 699] नई दिल्ली, मंगलवार, दिसम्बर 27, 2022/पौष 6, 1944
No. 699] NEW DELHI, TUESDAY, DECEMBER 27, 2022/PAUSHA 6, 1944

केंद्रीय विद्युत प्राधिकरण

अधिसूचना

नई दिल्ली, 23 दिसम्बर, 2022

केविप्रा-टीएच-17/1/2021-टीईटीडी प्रभाग.—विद्युत अधिनियम, 2003 (2003 का 36) की धारा 177 के उप धारा (3) के साथ पठित विद्युत (पिछले प्रकाशन की प्रक्रिया) नियम, 2005 के नियम (3) के उप नियम (2) द्वारा यथाअपेक्षित केंद्रीय विद्युत प्राधिकरण (विद्युत संयंत्रों और विद्युत लाइनों के निर्माण के लिए तकनीकी मानक) विनियम, 2022 का प्रारूप छः दैनिक समाचार पत्रों में प्रकाशित किया गया था, उन सभी व्यक्तियों से, जिनके उनसे प्रभावित होने की संभावना थी, उस तारीख से जिसको उक्त प्रारूप विनियमों से युक्त समाचार पत्र की प्रतियां जनता को उपलब्ध करा दी गई थीं, सैंतालीस दिन की अवधि के समाप्ति से पूर्व आक्षेप और सुझाव आमंत्रित किये गये थे;

और उक्त समाचार पत्रों की प्रतियां, जिनमें सार्वजनिक सूचनाएं और उक्त प्रारूप विनियम सम्मिलित हैं, केंद्रीय विद्युत प्राधिकरण की वेबसाइट पर 30 दिसंबर, 2021 को जनता को उपलब्ध करा दिए गए थे;

और उक्त प्रारूप विनियमों पर जनता से प्राप्त आपत्तियों और सुझावों पर केंद्रीय विद्युत प्राधिकरण द्वारा विचार कर लिया गया था;

अतः, विद्युत अधिनियम, 2003 (2003 का 36) की धारा 177 की उप-धारा (1) के साथ पठित उक्त अधिनियम की धारा 73 के खण्ड (ख) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, केंद्रीय विद्युत प्राधिकरण निम्नलिखित विनियम बनाता है, अर्थात्: -

अध्याय 1

1. **संक्षिप्त नाम, प्रारंभ और लागू होना** - (1) इन विनियमों का संक्षिप्त नाम केंद्रीय विद्युत प्राधिकरण (विद्युत संयंत्रों और विद्युत लाइनों के निर्माण के लिए तकनीकी मानक) विनियम, 2022 है।

8672 GI/2022

requirements as stipulated for coal or lignite based thermal generating stations in Part B of this Chapter in respect of fire detection, alarm and protection system, as applicable.

31. **Civil Works.**— Civil works shall meet the requirements as stipulated for coal or lignite based thermal generating stations in Part B of this Chapter in respect of civil works, as applicable:

Provided that the stack shall be of steel construction and its height shall meet the requirements of Ministry of Environment, Forest and Climate Change and any other stipulation of the Central Pollution Control Board and State Pollution Control Board in this regard.

CHAPTER-III

TECHNICAL STANDARDS FOR CONSTRUCTION OF HYDRO-ELECTRIC GENERATING STATIONS

32. Preliminary.—

(a) This Chapter stipulates the minimum technical requirements for construction of Hydro-Electric Generating Stations for various types of schemes i.e. Run- of-river scheme, Storage scheme, Pumped Storage scheme, Canal head scheme etc. with installed capacity of twenty five mega watt and above. The regulations herein shall also be applicable for construction for life extension purpose in the existing generating stations, wherever feasible.

(b) For Hydro-electric generating stations having installed capacity less than twenty five mega watt, the stipulations as appropriate, shall apply.

33. General Requirements.—

(1) While designing hydro-electric projects, the life of the civil works shall not be less than one hundred years, while that of main electro-mechanical generating equipment i.e. turbine, generator, transformers, auxiliaries, etc. installed shall not be less than forty years with regular inspection and required maintenance.

(2) The station shall be designed for unconstrained operation within the range of maximum net head and minimum net head, specified silt conditions wherever applicable and full range of ambient and other environmental conditions.

(3) The dimensions of the power house, turbine setting, speed rise, pressure rise, run-away speed, etc. shall be governed by the limits specified in relevant Indian Standards.

(4) (a) The chemical analysis of water and silt data including the petrographic and petrofabric analysis shall be taken into consideration while designing the turbine, main inlet valve and other auxiliary equipment susceptible to abrasive effects of silt.

(b) Suitable materials, protective coatings and painting shall be provided to resist silt abrasion wherever required as per the site conditions.

(5) The generating units of rated capacity fifty mega watt and higher shall be capable of operation in synchronous condenser mode, wherever feasible.

(6) (a) The operation of the unit shall be smooth and quiet.

(b) The noise level shall not be more than 90 dBA at a distance of 1 metre from any equipment when operating near rated output.

34. Layout Considerations.—

(1) General layout of the station shall be developed considering the proper utilization of space, functional requirements, future extensions and considering requirements of space during construction stage.

(2) Maintenance facilities shall be provided as required for assembly, disassembly and handling during maintenance of all important equipment and auxiliaries.

(3) (a) Fire escape staircases and galleries shall be provided in main station building and Cavern.

(b) Each equipment room shall be provided with alternate exits to be used in case of fire or accidents, as per requirements of the Factory Act and other statutory requirements.

(4) (a) Adequate provisions in layout shall be made for protection of power house against flooding.

(b) The required provisions for protection against flooding are given in Regulation 42.

35. Operating Capability of the Generating Unit.—

(1) The unit shall be capable of giving the rated output continuously as specified by the manufacturer at the rated design head and rated discharge and shall be capable of operating between the minimum and maximum head specified by the purchaser and ambient temperature at site as specified.

(2) The maximum continuous overload capacity up to 110% of rated capacity of the unit at the generator terminals during the high head conditions or high discharge conditions or both as guaranteed by the

imposed.

(d) The electrical protective relays for unit auxiliary and station auxiliary supply system shall be of numerical type with self-monitoring and diagnostic features.

(6) **DC supply system.**—

(a) The DC supply systems for hydro power stations shall comprise of batteries, battery chargers and DC distribution boards. The standard voltage rating for the DC system shall be 220 V. Suitable converters may be used for other desired voltage levels.

(b) The battery shall have sufficient capacity to meet unit and station loads in addition to 3 hours of uninterrupted emergency illumination requirement. Further, DC requirement for Control and Instrumentation purpose shall be as per clause 41(2) (k).

(c) DC system shall comprise of two DC battery sets (both battery sets of full capacity) each with one float cum boost charger.

(d) The float cum boost battery charger as well as its automatic regulator shall be of static type. It shall have a facility of both auto as well as manual control in both the float and boost modes.

(e) DC distribution boards shall be designed to supply the various station loads like normal continuous load, emergency lighting load, excitation current for field flashing of generators and indicating lamp loads.

(f) The DC batteries, battery chargers, and DC distribution board shall be placed at a floor higher than that of machine hall in underground power house and not below the machine hall floor in surface power house.

(7) **Neutral earthing.**— The earthing of neutral of various systems shall be as follows:

(a)	General transformer, Station transformer – HV Winding star point	:	Solidly earthed.
(b)	11 KV, 6.6kV or 3.3 kV	:	Through a suitable resistance in case of star or zig-zag connected windings; or Through artificial transformer with its secondary loaded with suitable resistor in case of delta-delta connected windings.
(c)	415 V system	:	Solidly earthed.
(d)	DC system	:	Unearthed

(8) **Grounding System.**—

(a) The grounding system shall be designed for a life expectancy of at least fifty years, for maximum fault current of the system. MS flats or rods shall generally be used as main ground mat. The touch and step potentials shall be maintained within acceptable limits as per relevant Institute of Electrical and Electronics Engineers or Indian Standards or International Electrotechnical Commission standards.

(b) Grounding and lightning protection for the entire power station and other areas or buildings shall be provided in accordance with relevant Indian Standards or Institute of Electrical and Electronics Engineers standards.

(c) Separate distinct grounding systems, if feasible, shall be provided for power house, switchyard and remote structures such as control buildings, communication buildings, spillway gate structures, storage buildings, etc. and other civil or hydraulic structures and inter-connected, if required.

(d) Special attention shall be made for grounding of high voltage Gas Insulated Switchgear equipment, computer networks and communication equipment as per the manufacturer's recommendations.

(e) All equipment shall be grounded at two points for reliability.

(f) Provision at appropriate locations shall be kept for measurement of grounding resistance at regular intervals.

(9) **Illumination.**—

(a) (i) The illumination shall be provided as per relevant Indian Standards. Apart from normal AC illumination system, emergency AC and DC illumination at strategic locations shall also be provided.

(ii) DC illumination shall be provided to enable safe movement of personnel and access to important control points during an emergency.

(b)(i) Energy conservation measures shall be adopted, while designing the lighting system. Light Emitting Diode based luminaires, Sodium vapour (high pressure) or other more efficient latest technology

रजिस्ट्री सं० डी० एल०-33004/99

REGD. NO. D. L.-33004/99

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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;

(3) Each IC engine or a group of IC engines installed at one location shall be provided with on-line fuel flow metering device to monitor fuel consumption.

27. **Electrical System**- Electrical requirements stipulated in Part- B of this Chapter shall be complied with for switchgear, transformers, cables, protections etc. as applicable. However, in case of smaller size of generators, the neutral may be earthed through resistance or voltage transformer.

28. **Fire Detection, Alarm and Protection System**- Suitable fire detection, alarm and protection system shall be provided for the Station.

CHAPTER III

TECHNICAL STANDARDS FOR CONSTRUCTION OF HYDRO- ELECTRIC GENERATING STATIONS

29. **Preliminary**- This Chapter stipulates the minimum technical requirements for construction of Hydro-Electric Generating Stations for various types of schemes i.e. Run-of-river scheme, Storage scheme, Pumped storage scheme, Canal head scheme etc. with installed capacity of 25 MW and above. For hydro- electric generating Stations having installed capacity less than 25 MW, the stipulations as appropriate, shall apply.

30. **General Requirements**- (1) While designing hydro- electric projects, the life of the civil works shall not be less than one hundred (100) years, while that of main electro-mechanical generating equipment i.e. turbine, generator, transformers, auxiliaries, etc. installed shall not be less than thirty five (35) years.

(2) The Station shall be designed for unconstrained operation over maximum net head and minimum net head, specified silt conditions wherever applicable, and full range of ambient and other environmental conditions.

(3) The dimensions of the power house, turbine settings, speed rise, pressure rise, run-away speed, etc. shall be governed by the limits specified in relevant IS.

(4) The chemical analysis of water and silt data including the petrographic analysis shall be taken into consideration while designing the turbine, main inlet valve and other auxiliary equipment susceptible to abrasive effects of silt. Suitable materials, protective coatings and painting shall be provided to resist silt abrasion wherever required as per the site conditions.

(b) Microprocessor based vibration monitoring and analysis system shall be provided for critical rotating equipments.

39. Provisions Required for Protection of Power House against Flooding

Following provisions shall be made for protection of Power House against flooding:

(1) Suitable number of submersible pumps with provision for automatic starting by means of level switches shall be provided at main inlet valve (MIV) floor, in addition to drainage and dewatering pumps as per Regulation 36(3).

(2) The control panels for dewatering and drainage pumps shall be located at a floor higher than that of turbine floor.

(3) Suitable float switches shall be provided in power house building to give closing signal to the MIV in the event of inundation of power house due to any reason including penstock rupture or leakage in penstock or for some other reasons.

(4) The station service transformers and station service boards shall be located at higher level.

(5) The excitation cubicles, unit control panels, unit protection panels etc. shall be located in the machine hall to the extent possible.

(6) The DC batteries, battery chargers and DC distribution boards shall be placed at a floor higher than that of machine hall.

(7) Provision shall be made for operation and control of surge shaft gates from remote for quick isolation of water conductor system in case of failure of other line of defence / protection.

(8) Provision of individual hoisting mechanism for draft tube gates of each unit may be considered for quick closing. The draft tube gates shall be capable of closing under unbalanced condition of water pressure.

CHAPTER IV

TECHNICAL STANDARDS FOR CONSTRUCTION OF SUB-STATIONS AND SWITCHYARDS

40. The Technical Standards for construction of Sub-stations and Switchyards are covered in following in following three parts:

Part - A: Sub-Stations and Switchyards (66kV and above)
Part - B: Sub-Stations (33/11 kV, 33/22kV and 22/11kV)
Part - C: Distribution Sub-Stations (DSS)

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

NO: NEEPCO/DHEP/DGM(E)/HGC(M)/2020-21/T-4/ 112 Date 03.12.2020

To,

M/S GLOCON,
Manav Kalyan Namghar Road
Near Namghar
Tinsuskia 786125, Assam.
Email: gloconpk@rediffmail.com, 9706076203 (M)

Sub: Order for awarding the contract for "Design, Manufacturing, Shop Testing, Supply & Delivery 132 KV GO Type & SPR Type and 33 KV (GO) SF6 Circuit Breaker to Doyang Hydro Electric Plant, NEEPCO".

Ref: 1) Our Letter No. NEEPCO/DHEP/HGC/T-4/2020-21/48 Dt. 09/09/2020
2) CG Power and Industrial Solutions Ltd. letter No. YE/SER-TP/NEEPCO-GLO/03 Dt. 12/09/2020
3) Your Offer No. GL/2020-21 Dt. 14/09/2020
4) Our Letter No. NEEPCO/DHEP/HGC/T-4/2020-21/63 Dt. 15/09/2020
5) Our email dt. 22/09/2020.
6) Your Revised Offer No. GL/2020-21 Dt. 29/09/2020.
7) Our email Dt. 09/10/2020
8) Your email Dt. 09/10/2020

Sir,

With reference to the above, the Corporation is pleased to place this order on you for awarding the contract for "Design, Manufacturing, Shop Testing, Supply & Delivery of 132 KV GO Type & SPR Type and 33 KV GO type SF6 Circuit Breaker to Doyang Hydro Electric Plant, NEEPCO" as per the Schedule of Item and the Prices in the enclosed Annexure-A and the technical parameters enclosed in Annexure- I, II & III and other Terms and Conditions as indicated below:

Terms and Conditions:

1. **Price:** The Price of the Current Breakers indicated in the "**Schedule of Item and Prices (Annexure-A)**" enclosed in this order are FOR Doyang, exclusive of charges towards Freight & Insurance, Packing and Forwarding and applicable GST. The price shall remain firm till completion of the order.
2. **GST:** Applicable IGST shall be paid extra at the time of delivery of materials. **Our GST Registration No. is: 13AACN9991J1Z1.**
3. **Transit Insurance & Freight Charges:** shall be paid extra at actual on submission of documentary evidence.
4. **Scope of Supply:** Design, Manufacturing, Shop Testing, Supply & Delivery of 132 KV GO Type & SPR Type and 33 KV GO type SF6 Circuit Breaker to Doyang Hydro Electric Plant, NEEPCO.
5. **Technical Specifications**: As per Annexure- I, II & III (enclosed)
6. **Delivery period**: Delivery within 8 (eight) months from the date of issue of this order.
7. **Payment**: 100% Payment with applicable taxes along with Insurance & freight charges will be released after receipt of materials in full and good condition at site and issuance of necessary acceptance certificate from the Engineer-in-charge/Consignee. For

releasing the payment, the supplier has to submit tax invoice in triplicate to the Engineer-in-charge/Consignee along with delivery challan, Warranty certificate, test certificate of the materials and manuals etc. Payment will be made through RTGs/NEFT. Bank charges, if any, for the payment will be on your account. The following information may be furnished for receiving payment through e-payment system:

1.	Name of Beneficiaries	2.	Name of Bank
3.	Branch of Bank	4.	IFSC Code of the Branch
5.	Account Number	6.	City/Town
7.	Fax and Telephone Numbers	8.	e-mail address.

8. **Liquidated Damage (LD):** If the performance of the Contract is delayed beyond the time stipulated in the contract due to reasons attributable to the contractor, the Purchaser shall without prejudice, have the right to recover the damages for the breach of the Contract @ 0.5% per week delay subject to a maximum of 10% of the contract value.
9. **Contract Performance Guarantee:** Bank Guarantee in prescribed format is to be furnished, for an amount equal to 10 (ten) percent of the Contract value, i.e. ***Rs. 2,57,429.00 (Rupees two lakhs fifty-seven thousand four hundred and twenty-nine only)*** by way of Guarantee for the due and faithful performance of the Contract. The Bank Guarantee shall be initially valid for 24 months. The Bank Guarantee shall be acceptable only if it is issued by a Nationalized / Scheduled Bank in India. The prescribed format for the Bank Guarantee for Contract performance is enclosed as Annexure – IV. The Bank Guarantee will be returned to the Contractor without any interest after expiry of the warranty period, subject to fulfillment of the terms and conditions in all respects
10. **E-way Bill:** Any road license and / or e-way bill, if necessary, shall be arranged by the Contractor at his own cost. However, if any documentary assistance is necessary to facilitate the transportation, this will be supplied by the Purchaser wherever possible.
11. **Materials and Workmanship/Standards:** The Contractor shall have to guarantee that the equipment and materials shall be new and of best quality workmanship and the materials shall have no defect in design and or manufacture, shall meet the requirements of the specification and shall be, in all respects, suited for purposes intended. The Contractor shall remedy, without any cost of the Purchaser, all defects in design, materials and workmanship which may develop under normal use and which have been called to the attention of the Contractor prior to the expiry of the warranty period.
12. **Rejection of Defective Materials:** If the equipment supplied, is found to be defective, or fails to function properly, the Purchaser shall give the Vendor notice stating the particulars of such defects and the Vendor shall forthwith replace the same to make it work satisfactorily without any extra cost to the purchaser. If the Vendor fails to do so within a reasonable time as may be decided by the Purchaser, the Purchaser may reject and replace the defective material at the risk and cost of the Vendor, so that the replaced material functions satisfactorily. In case of such replacement by the Purchaser, the Vendor shall be liable to pay to the Purchaser the extra cost, if any, for such replacement.

13. **Guarantee/Warranty**: The material must be guaranteed of cover against manufacturing/ design defects for a period of 12 (twelve) months from the date of commissioning or 18 months from the date of receipt at site whichever is earlier.
14. **Inspection:** Inspection and witnessing of the testing of the 132 KV and 33 KV Circuit Breaker shall be done by the inspector / technical representative of NEEPCO at the works of M/s CG Power & Industrial Solution Ltd. prior to dispatch. All the 3 (three) set 132 KV and 33 KV Circuit Breaker shall be offered in one lot for inspection, if required, at the works of M/s CG Power & Industrial Solution Ltd.
M/s CG Power & Industrial Solution Ltd. or M/s Glocon shall intimate to this office well in advance regarding readiness of the equipment so that our representative can be deputed for inspection. All the arrangement for inspection and testing shall be done by M/s CG Power & Industrial Solution Ltd. However, the corporation reserves the right to waive this inspection. The waiver of inspection by the technical representative / inspector of NEEPCO and also waiver of witnessing of tests by the technical representative / inspector of NEEPCO shall not relieve M/s CG Power & Industrial Solution Ltd. or M/s Glocon in any way of the responsibility of supplying the 132 KV and 33 KV CB strictly in accordance with the technical specifications of this order. In any case, M/s Glocon shall remain fully responsible for supply of 132 KV and 33 KV CB as per the agreed Technical Specification.
15. **Packing, Marking and Forwarding:** The Contractor shall properly paint, pack and crate the equipment/materials as per prescribed standards in force to protect them from any loss, damage, deterioration, etc. during transportation to site and storage at site till installation. The contractor shall be held responsible for all losses, damages, deterioration, etc. due to improper painting, packing, crating, etc. The contractor shall notify the Purchaser of the date of dispatch of every consignment from his works and the expected date of arrival at destination for the information of the Purchaser.

    Each bundle or package shall have the following markings on it: -

    i) The name and address of the Consignee

    ii) Destination

    iii) Relevant marks, reference numbers etc. for identification

    iv) Directions for handling the materials

    v) Each package shall also be accompanied with detailed packing lists to facilitate checking up of the contents at the destination.
16. **Operation Manual:** The supplier shall furnish 2 (two) copy of operation manual in bound form covering installation, operation and maintenance of the equipment. The manuals will be in English.
17. **Test Report/Certificates:** All Test Report to be submitted along with the bill.
18. **Drawings:** GA Drawings, Flow Diagram & Control Panel Drawings etc. to be submitted for approval.
19. **Force Majeure:** The "Force Majeure" risks are those which are beyond the control of either the Corporation or the Contractor and shall be applicable as defined in NEEPCO's standard "Force Majeure" clause. 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 this obligations under this Agreement and if such party gives to the other party written notice of the event within. Neither party shall be liable to the party

for loss or damage sustained by the other party arising from any event. The term "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.

20. Consignee/Engineer In-Charge:

Deputy General Manager (E/M),
Generator & Switch Yard Div.,
DHEP, NEEPCO Ltd,
Doyang, Wokha, Nagaland- 797100
Contact No: 9366114139, 9862769848
email: phnsym_dhep@rediffmail.com

21. Paying authority: Deputy General Manager (F&A), DHEP, NEEPCO Ltd, Doyang, Nagaland.

Kindly acknowledge the receipt and acceptance of this order.

Yours faithfully,

03/12/2020

(S.Patton)
Dy. General Manager (E/M)
Hydro Generation Circle,
Maintenance, DHEP: NEEPCO
Doyang, Wokha, Nagaland.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

Annexure-A

Schedule of Item and Prices:

Sl .No	Scope of supply	Unit	Qty	Rate(Rs)	Total Amount(Rs.)
1.	145 KV SF6 CB (GO), Type: 120 SFM-40AA, Make: CG Power & Industrial Solution Ltd.	Set	1	865800	865800
2.	145 KV SF6 CB (SPR), Type: 120 SFM-40AA, Make: CG Power & Industrial Solution Ltd.	Set	1	865800	865800
3.	36 KV SF6 CB (GO), Type: 30 SFGP-25A, Make: CG Power & Industrial Solution Ltd.	Set	1	450000	450000
				Sub Total	**2181600**
				GST @18%	**392688**
				Grand Total	**25,74,288**

(Rupees twenty - five lakhs seventy - four thousand two hundred and eighty-eight only).

03/12/2020
(S.Patton)
Deputy General Manger (E/M)
HGC, Maintenance I/C
DHEP, NEEPCO Ltd., Doyang.
Wokha, Nagaland.

RE: Problem with GT-3 of Doyang HEP

From: Kunal S. Chatterjee (kunal.chatterjee@bharatbijlee.com)

To: dasdc90@yahoo.co.in

Cc: pratik.basu@bharatbijlee.com; hop_dhep@rediffmail.com; wcpcn.edoms@gmail.com; phmym_dhep@rediffmail.com; prasenjitp29@gmail.com

Date: Monday, 17 August, 2020, 05:09 pm IST

Dear Sir,

Reference to the trailing mail, please note that the subject 63 MVA, 11.0/33 kV Transformer Sl. No.3757/03 is about 25 years old.

It is not advisable to repair 25 years old transformer by any way, please note.

In view of above we regret to quote the above wind up.

Thanking you and assuring our best services always.

With regards,

Kunal Chatterjee
Manager - Sales
[Transformers & Projects]

Bharat Bijlee Limited
Sidhha Fifth Avenue,
Space No. 38, 3rd Floor,

178 Anandapur,P.O. Ecotia Kolkata

Kolkata- 700 107, India.

T: +91 33 2443 2368 / 2382 / 2383 / 2674, +91 33 4084 [illegible]

F: +91 33 2443 2467, M: +91 [illegible]

CIN Number: L31200MH1949PLC[illegible]

E-mail: [illegible]

Website: [illegible]

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of IndiaEnterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

NO: NEEPCO/DHEP/DGM(E)/HGC(M)/2021-22/T-4/141 Dt. 09.08.2021

To,

M/s Bharat Heavy Electrical Ltd.,
Spares & Business Group, ER
DJ-9/1, 3rd Floor, Karunamayee, Sector-II
Salt Lake City, Kolkata – 700 091

Kind Attn: Satya Narayan Das, Dy.Engineer, BHEL, SSBG, Kolkata.

Sub: Supply Order of Hydro Turbine Generator Spares Items for 3 X 25 MW Doyang H E Plant, Nagaland.

Ref: 1) Our letter NO:NEEPCO/DHEP/DGM(E)/HGC(M)/2021-22/T-4/98 Dt. 24.10.2020
2) Your Offer No.PS/SSBG-KOL/SB20K0381/BPH/HDG/0030 Dtd.12.04.2021
3) Our Email Dt. 22.07.2021
4) Your Email Dt. 23.07.2021

Sir,

The North Eastern Electric Power Corporation is pleased to place this Order for Supply of Hydro Turbine Generator Spares items for 3 X 25 MW Doyang Hydro Electric Plant, Doyang, Nagaland as per the Price and Terms and Conditions given below:-

Sl No	Particulars	Unit	Qty	Rate (Rs)	Amount (Rs)
1	Generator Air Cooler, HSN Code: 85016440	No	6	893200	5359200
2	Oil Cooler for Bottom Bracket, HSN Code: 85016440	No	6	449900	2699400
3	Oil Coolers for Turbine Guide Bearing (TGB) Housing, HSN Code: 85016440	No	6	187000	1122000
4	Thrust Pads (1 set=1 m/c), HSN Code: 85016440	Set	1	2200000	2200000
5	Guide Pads for LGB (1 set=1 m/c), HSN Code: 85016440	Set	1	1650000	1650000
6	Guide Vanes (machining), Cover Plate, Split Dowel, GV Lever (machining) Strap, Key, Adapter M30. Drg. No. 02030198001, Item No. 05,20,26,27,28,58,61, HSN Code: 85016440	Set	1	18568000	18568000
				Total Rs	**3,15,98,600**
(Rupees three crore fifteen lakh ninety eight thousand six hundred) only					

TERMS & CONDITION:

1. **SCOPE Of WORK**: Supply & Delivery of Spares Items listed above to Hydro Electric Plant, Doyang, Wokha-Dist. Nagaland, PIN: 797100
2. **PRICES:** The above prices are Ex-works BHEL, BHOPAL (GST NO: 23AAACB4146P1ZN, State: M.P.) and inclusive of packing & forwarding charges.

The above prices are exclusive of GST. The prices shall remain firm till completion of the order.

3. **TERMS OF PAYMENT**:

i) 10% of the Ex-Works Price, i.e. ***Rs. 31,59,860.00 (Rupees thirty one lakh fifty nine thousand eight hundred sixty) only.*** shall be paid as interest free advance immediately on receipt of your bill for the same.

ii) Balance 90% payment along with applicable GST shall be paid against dispatch documents with a provision of part payment against part dispatches. BHEL shall submit the dispatch documents, Original LR , Challan, Tax invoice etc. in triplicate to the consignee for effecting payment.

iii) Payment will be made through RTGs/NEFT. Bank charges, if any, for the payment will be on your account. The following information may be furnished for receiving payment through e-payment system:

1.	Name of Beneficiaries	2.	Name of Bank
3.	Branch of Bank	**4.**	IFSC Code of the Branch
5.	Account Number	**6.**	City/Town
7.	Fax and Telephone Numbers	**8.**	e-mail address.

4. **Packing, Marking and Forwarding:** The Contractor shall properly paint, pack and crate the equipment/materials as per prescribed standards in force to protect them from any loss, damage, deterioration, etc. during transportation to site and storage at site till installation. The contractor shall notify the Purchaser of the date of dispatch of every consignment from his works and the expected date of arrival at destination for the information of the Purchaser.

Each bundle or package shall have the following markings on it: -

i) The name and address of the Consignee

ii) Destination

iii) Relevant marks, reference numbers etc. for identification

iv) Directions for handling the materials

v) Each package shall also be accompanied with detailed packing lists to facilitate checking up of the contents at the destination.

5. **DESPATCH:** The materials shall be dispatched by Road through BHEL approved Transporter/Carriers only up to the Doyang Hydro Electric Plant, Doyang, Wokha-Dist. Nagaland, PIN: 797100.

6. **FREIGHT AND TRANSIT INSURANCE**: ***Freight & Transit Insurance Charges of Rs. 7,00,000.00 (Rupees Seven lakhs only) with applicable GST shall be paid extra***. Freight & Transit Insurance of the material shall be under the scope of BHEL. Freight Invoice to be submitted for release of payment.

7. **REPLACEMENT OF GOODS BROKEN OR DAMAGED IN TRANSIT** : In the event if goods broken or damaged in transit then NEEPCO will have to recover such losses from the insurance company. The payment of damaged or broken goods not be withheld till the placements /rectification is made. It should be released as per your payment terms only.

Claim if any on account of BHEL must be within 15 days from the date of receipt of the consignment , else the responsibility on the part of BHEL ceases.

Damaged or broken goods shall be replaced/ rectified by BHEL at an extra cost and against a separate purchase order only.

Return of Goods mutually agreed between BHEL and NEEPCO for replacement/rectification by BHEL shall have to be booked to the consignor on Freight Prepaid and Door delivery basis together with the Original Transporter Copy of Tax Invoice of the earlier suppliers for availing reversal of the taxes paid. The Return of goods shall be done with the consent of BHEL and within 45 days from the date of receipt of the consignment. BHEL shall not own the responsibility in the event of any delay in this regard.

8. **DELIVERY PERIOD:** 12 (twelve) Months from the date of receipt of Technically and Commercially clear order or receipt of advance whichever is later and is subject to 'FORCE MAJEURE' condition.
9. **GST**: @18% or applicable GST will be paid extra as per actual at the time of delivery.
   Our GST Registration No. is: 13AAACN9991J1ZI.
10. **MATERIAL RECEIPT, ACCOUNTING & STORAGE:** NEEPCO shall raise the documents towards Materials Receipt, Inspection & Accounting within a period of 15 days from the date of receipt of each consignment. BHEL shall not own the responsibility on the delayed (Beyond 15 days after the receipt of Goods) accounting of the consignments. The consignments booked under Transporters Go-down Delivery basis shall have to be collected within 3 days from the date of receiving the information from the Transporter about the arrival of the consignment. No claim on account of shortages, damages & loss of materials shall be made on BHEL, However, BHEL will ensure handing over of the goods in good condition with proper packing and marking at the time of booking.
11. **STANDARD QUALITY PROCEDURES:** The BHEL shall follow their own standard quality procedures and Technical Delivery Conditions wherever available during the Manufacturing, Inspection and Testing of products. The same procedure shall be followed by the NEEPCO' s inspecting Authority at BHEL's works or vendor works and then issue the required clearance for dispatch as and when required without insisting on for a fresh Quality procedure approved by the NEEPCO.
12. **Materials and Workmanship/Standards:** The Contractor shall have to guarantee that the equipment and materials shall be new and of best quality workmanship and the materials shall have no defect in design and or manufacture, shall meet the requirements of the specification and shall be, in all respects, suited for purposes intended. The Contractor shall remedy, without any cost of the Purchaser, all defects in design, materials and workmanship which may develop under normal use and which have been called to the attention of the Contractor prior to the expiry of the warranty period.
13. **WARRANTY:** Under warranty condition, or liability implied by law BHEL's liability in respect of any defect in of failure of goods supplied , or for any loss, injury ,or damaged attributable thereto , is limited to making good by replacement or repair defects which under proper use , appear therein and arise solely from faulty design , materials or workmanship within a period of twelve calendar months after the original goods shall have been first dispatched, at the termination of which period all liability on your part ceases , provided always that such defective parts are promptly returned free to you , unless otherwise agreed.

    BHEL's obligation under this clause shall cease forthwith.

    a. If the purchaser or user has not operated the equipment according to generally approved industry practices and in accordance with the conditions of operation specified.
    b. If the purchaser have not notified the contractor in writing as soon as any defect occurred.

c. If the equipment is spoiled or becomes defective due to purchaser's fault or due to fire or other accidents or damage from other equipment of the purchaser.

14. **FORCE MAJEURE:** You shall not be liable for loss or damage resulting from any delay or failure to make shipment within time specified for all or any part of the equipment due to Acts of God, war declared, or undeclared , acts of public Enemy , riots civil commotion, invasion, insurrection , sabotage, acts or restraint of Governments federal, state or municipal action or regulation, delay in release of foreign exchange and for import license by Government embargoes, strikes or other labour trouble, fire, flood , hurricanes , accidents , epidemics, quarantine restrictions, delays or destruction's or sinking of carriers, inability to obtain dock, lighter age or loading facilities , damage to or destruction in whole or in part of the equipment or manufacturing plant lock of , or inability to obtain raw materials, labour , fuel or supplies for any reason including defaults of suppliers or any failure on the part of the purchaser or his representative to approve or comment on drawing or other technical document within the period of one specified by us or any other causes contingencies or circumstances not subject to our control of a similar or dissimilar nature which prevents the manufacture or delivery of the equipment . Any such causes or delay even though existing on the date of contract or on the date of start of manufacture , shall extend the time of our performance by the length of delays occasioned thereby , including delay reasonable incident to the resumption of normal production even though such case may occur after performance of our obligation has been delayed for the other cause.

15. **FITMENT CERTIFICATE:** It must be guaranteed that the spares supplied shall fit properly on the existing equipment without any modification for which the same are being purchased. A certificate in this respect is to be given at the time of delivery of materials.

16. **Consignee:-** Deputy General Manager (E/M),
Generator & Switch Yard Div.,
DHEP, NEEPCO Ltd,
Doyang, Wokha, Nagaland- 797100
Contact No: 9366114139, 9862769848
email: phnsym_dhep@rediffmail.com

17. **E-way Bill:** Any road license and / or e-way bill, if necessary, shall be arranged by the Contractor at his own cost. However, if any documentary assistance is necessary to facilitate the transportation, this will be supplied by the Purchaser wherever possible.

18. **Paying Authority:-** The Deputy General Manager (F&A), DHEP, NEEPCO Ltd, Doyang, Nagaland.

19. All other terms and conditions shall be as per your quotation unless further amendment is made for facilitating delivery of the materials.

Kindly acknowledge the receipt and acceptance of this supply order.

Yours faithfully,

07/08/2015

(S.Patton)
Dy. General Manager (E/M)
Hydro Generation Circle-II
DHEP: NEEPCO
Doyang, Wokha-Dist. Nagaland.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: WOKHA: NAGALAND
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

NO: NEEPCO/DHEP/DGM(E)/HGC(M)/2021-22/T-4/ 172 Date 15.11.2021

To,

M/s Industrial Pumps & Motor Agencies,
40, Strand Road, 4th Floor, Room No.3,
Kolkata – 700001
West Bengal.

Sub: Supply Order for Screw Pump for Oil Pressure Unit to 3x25 MW Doyang Hydro Electric Plant, NEEPCO.

Ref: 1) Our letter No. NEEPCO/DHEP/DGM(E)/HGC(M)/2021-22/T-4/01(A) Dt. 28.06.2021 Dated:25.01.2021
2) Delta PD Pumps email Dt. 06/07/2021 and authorization letter.
3) Your Quotation No. IPMA/105/DP/42 Dt. 09/07/2021.
4) Our email Dt. 12 Jul 2021,& 20 Jul 2021
5) Your email Dt. 13 Jul 2021, 21 Jul 2021 & 30 Aug 2021

Sir,

With reference to the above, the Corporation is pleased to place this order on you for Supply of 2 (two) Nos. Typical Tank Mounted Pump for Water Turbine Governor to 3 x 25 MW Doyang Hydro Electric Plant, NEEPCO" as per the Schedule of Item and the Prices in the enclosed Annexure-A and other Terms and Conditions as indicated below:

Terms and Conditions:

1. **Scope:** Supply of 2 (two) Nos. Typical Tank Mounted Pump for Water Turbine Governor (Tushaco Screw Pump), Type: 3.52/54, 4XSF 1X2 (Triple Screw Positive Displacement), Speed:1500 RPM, Discharge Capacity: 240LPM, Pressure:40 Kgf/ cm², A – 05/045/1, Make: Delta Corporation to 3 x 25 MW Doyang Hydro Electric Plant, Doyang, Wokha, Nagaland- 797100.
2. **Price:** The Price of the items indicated in the **"Schedule of Item and Prices (Annexure-A)"** enclosed in this order are Ex-Godown, Kolkata and exclusive of Freight and Transit Insurance. The price shall remain firm till completion of the order.
3. **GST:** @18%.
4. **Our GST Registration No. is: 13AAACN9991J1Z1.**
5. **Completion period**: The entire scope of work shall be completed within 6 (six) months from the date of issue of this order.
6. **Payment Terms**:
   i) **Supply Part:** 90% (ninety percent) of the material cost along with 100% taxes will be released against dispatch document through Bank. All original documents including L.R/RR/AWB & Invoice etc. are to be negotiated through Our Banker, State Bank of India, Doyang Branch, (Branch Code- 9351), IFSC Code SBIN0009351, Doyang- 797100, Wokha, Nagalanad. Bank charges, if any, shall be to your account.
   Balance amount shall be paid on receipt of the materials in full and good condition at site after deducted 03% (three percent) of the total ordered value, i.e. Rs. 65,743.00 (Rupees Sixty Five Thousand Seven Hundred Forty Three) only as Security Deposit. The Security Deposit shall be retained for a period of 18 (eighteen) months from the date of receipt of the materials. The Security Deposit

(eighteen) months from the date of receipt of the materials. The Security Deposit shall be released after 18 (eighteen) months subject to fulfilment of the terms and conditions in all respects.

For releasing the payment, the supplier has to submit tax invoice in triplicate to the Engineer-in-charge/Consignee along with delivery challan, Warranty certificate, Drawings/manuals etc.

ii) Freight & Transit Insurance charges shall be paid at actual on submission of documentary proof.

Payment will be made through RTGs/NEFT. Bank charges, if any, for the payment will be on your account. The following information may be furnished for receiving payment through e-payment system:

1.	Name of Beneficiaries	2.	Name of Bank
3.	Branch of Bank	4.	IFSC Code of the Branch
5.	Account Number	6.	City/Town
7.	Fax and Telephone Numbers	8.	e-mail address.

7. **Liquidated Damage (LD):** If the performance of the Contract is delayed beyond the time stipulated in the contract due to reasons attributable to the contractor, the Purchaser shall without prejudice, have the right to recover the damages for the breach of the Contract @ 0.5% per week delay subject to a maximum of 10% of the contract value.
8. **E-way Bill:** Any road license and / or e-way bill, if necessary, shall be arranged by the Contractor at his own cost. However, if any documentary assistance is necessary to facilitate the transportation, this will be supplied by the Purchaser wherever possible.
9. **Materials and Workmanship/Standards**: The Contractor shall have to guarantee that the equipment and materials shall be new and of best quality workmanship and the materials shall have no defect in design and or manufacture, shall meet the requirements of the specification and shall be, in all respects, suited for purposes intended. The Contractor shall remedy, without any cost of the Purchaser, all defects in design, materials and workmanship which may develop under normal use and which have been called to the attention of the Contractor prior to the expiry of the warranty period.
10. **Rejection of Defective Materials**: If the equipment supplied, is found to be defective, or fails to function properly, the Purchaser shall give the Vendor notice stating the particulars of such defects and the Vendor shall forthwith replace the same to make it work satisfactorily without any extra cost to the purchaser. If the Vendor fails to do so within a reasonable time as may be decided by the Purchaser, the Purchaser may reject and replace the defective material at the risk and cost of the Vendor, so that the replaced material functions satisfactorily. In case of such replacement by the Purchaser, the Vendor shall be liable to pay to the Purchaser the extra cost, if any, for such replacement.
11. **Guarantee/Warranty**: The material must be guaranteed of cover against manufacturing/ design defects for a period of 18 months from the date of receipt of material at site.
12. **Packing, Marking and Forwarding:** The Contractor shall properly paint, pack and crate the equipment/materials as per prescribed standards in force to protect them from any loss, damage, deterioration, etc. during transportation to site and storage at site till installation. The contractor shall be held responsible for all losses, damages,

deterioration, etc. due to improper painting, packing, crating, etc. The contractor shall notify the Purchaser of the date of dispatch of every consignment from his works and the expected date of arrival at destination for the information of the Purchaser.

Each bundle or package shall have the following markings on it: -

i) The name and address of the Consignee

ii) Destination

iii) Relevant marks, reference numbers etc. for identification

iv) Directions for handling the materials

v) Each package shall also be accompanied with detailed packing lists to facilitate checking up of the contents at the destination.

13. **User Manual:** The supplier shall furnish 2 (two) copy of operation manual in bound form covering installation, operation and maintenance of the equipment. The manuals will be in English.
14. **Drawings:** GA Drawings, Flow Diagram etc. to be submitted for approval prior to dispatch.
15. **Test Report/Certificates:** Test Report, if any, to be submitted along with the bill.
16. **FITMENT CERTIFICATE:** ***It must be guaranteed that the pump supplied shall fit properly on the existing equipment without any modification for which the same are being purchased. A certificate in this respect is to be given at the time of dispatch of the materials.***
17. **Force Majeure:** The "Force Majeure" risks are those which are beyond the control of either the Corporation or the Contractor and shall be applicable as defined in NEEPCO's standard "Force Majeure" clause. 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 this obligations under this Agreement and if such party gives to the other party written notice of the event within. Neither party shall be liable to the party for loss or damage sustained by the other party arising from any event. The term "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.
18. **PATENT RIGHTS AND ROYALTIES:** Royalties and fees for patents covering materials, articles, apparatus, devices, equipment or processes used in the work shall be deemed to have been included in the Contract price. The Contractor shall satisfy all demands that may be made at any time for such royalties or fees and he alone shall be liable for any damages or claims for patent infringements and shall keep the Purchaser indemnified in that regard. The Contractor, shall, at his own cost and expense, defend all suit and proceeding that may be instituted for alleged infringements of any patent involved in the works and, in case of any award of damages, the Contractor shall pay for such awards. In the event of any suits or other proceedings instituted against the Purchaser, the same shall be defended at the cost and expense of the Contractor, who shall satisfy / comply any decree, order or award made against the Purchaser. However, it shall be understood that no such work, material or thing has been used by the Purchaser for any purpose or any manner other than that for which they have been furnished and installed by the Contractor and specified under these specifications. Final payment to the Contractor by the Purchaser will not be made while any such suit or

claim remains unsettled. In the event any apparatus or equipment or any part thereof, furnished by the Contractor, is in such suit or proceedings held to constitute infringement and its use is enjoined, the Contractor shall, at his option, and his own expense, either procure for the Purchaser the right to continue use of said apparatus, equipment or part thereof, replace it with non-infringing apparatus, or equipment or modify it, so as to make it non-infringing.

19. Consignee/Engineer In-Charge:
Deputy General Manager (E/M),
Generator & Switch Yard Div.,
DHEP, NEEPCO Ltd,
Doyang, Wokha, Nagaland- 797100
Contact No: 9366114139, 9862769848
email: phnsym_dhep@rediffmail.com

20. Paying authority: Deputy General Manager (F&A), DHEP, NEEPCO Ltd, Doyang, Nagaland.

Kindly acknowledge the receipt and acceptance of this order.

Yours faithfully,

(S.Patton)
Dy. General Manager (E/M)
Hydro Generation Circle,
Maintenance, DHEP: NEEPCO
Doyang, Wokha, Nagaland.

NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A Government of India Enterprise)
OFFICE OF THE DGM (E/M), HYDRO GENERATION CIRCLE- MAINTENANCE
DHEP: DOYANG: *WOKHA: NAGALAND*
Website: www.neepco.co.in, E-mail: hgc_dhep@rediffmail.com

Annexure-A

Schedule of Item and Prices:

Sl .No	Description	Unit	Qty	Rate(Rs)	Total Amount(Rs.)
1.	Typical Tank Mounted Pump for Water Turbine Governor Type: 3.52/54, 4XSF 1X2 (Triple Screw Positive Displacement), Speed:1500 RPM, Discharge Capacity: 240LPM, Pressure:40 Kgf/ cm², Make: Delta Corporation.	No	2	9,28,570.00	18,57,140.00
				GST @18%	3,34,285.00
				Grand Total	**21,91,425.00**
(Rupees twenty-one lakh ninety one thousand four hundred twenty five) only.					

(S.Patton)
Deputy General Manger (E/M)
HGC, Maintenance I/C
DHEP, NEEPCO Ltd., Doyang.
Wokha, Nagaland.

T-13(A)

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)
NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Website: www.neepco.co.in, E-mail: contract_neepco@yahoo.com
ISO: 9001, 14001 &45001
OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT)
BrooklandCompound:: Lower New Colony,
Shillong-793 003 :: Ph: 91-364-2227784
Corporate Identity Number (CIN): U40101ML1976GOI001658

No. QP/C&P/F/E/Fire Tender/2038/Vol-II/ Dated: /09/2019

To

M/s AMBALA COACH BUILDERS
Hissar Road, Ambala City (Haryana)-134003,
Email:- acb4672003@yahoo.co.in / acb4672003@gmail.com

Sub: Detailed Order for the contract for Supply of 3 No. water cum foam type Fire Tender of 3500 Litre capacity 1(one) each for Pare HEP, Arunachal Pradesh, Turial HEP, Mizoram and Doyang HEP Nagaland.

Ref:
1. Our NIB No. 305 dtd. 29/01/2019.
2. Your online offer No. ACB/200/1628/35113 dtd. 18/02/19.
3. This office email dtd: 17/04/2019 (seeking clarifications).
4. Your reply via email dtd: 19/04/2019.
5. This office email dtd: 01/08/2019.
6. This office email dtd: 02/08/2019.
7. Your letter No.ACB/200/1628/35651 dtd: 05/08/2019
8. Our LOI No. QP/C&P/F/E/Fire Tender/2038/Vol-II/830 dtd: 08/08/2019
9. Your letter No. ACB/845/35689 dtd: 19/08/2019

Dear Sirs,

With reference to the above, the Corporation is pleased to place this Detailed Order for award of the contract as per the scope and Terms and Conditions given hereunder:

1. **SCOPE:**
Design, Engineering, Manufacturing/construction/fabrication/assembly, Inspection and Testing at Manufacturer's works before despatch, Insurance, Supply, Delivery at site including Freight Transit Insurance, demonstration of Operation before handing over to the Purchaser of 3 (Three) No. water cum foam type Fire Tender of 3500 Litre capacity –one each for Pare HE Project at Arunachal Pradesh, Tuirial HE Project at Mizoram and Doyang HEP as detailed in technical specifications of the bid document.

The Scope shall also include imparting training to the purchaser's staff for a period of 2 (two) days at purchaser's premises. The purpose of such training shall be acquainting Purchaser's staff on all aspects of operation of the Fire Tender. During process of training, in addition to actual operation in field, the supplier shall also furnish literature and documents of operation.

M/s Ambala

M/s AMBALA

18/10/2019

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नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)
NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Website: www.neepco.co.in, E-mail: contract_neepco@yahoo.com
OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT)
BrooklandCompound:: Lower New Colony,
Shillong-793 003 :: Ph: 91-364-2227784
Corporate Identity Number (CIN): U40101ML1976GOI001658
ISO: 9001, 14001 &45001

The Schedule of the equipment to be supplied with the appliance separately each for PARE HEP, TURIAL HEP and DOYANG HEP is attached as Annexure-I.(a), (b) & (c)

2. **CONTRACT VALUE:** The total contract value for the entire scope of work shall be Rs.1,25,09,448.00 (Rupees One Crore Twenty Five Lakh Nine Thousand Four Hundred and Forty Eight only) inclusive of GST @ 18% as per the attached Price Schedule-A. The prices shall remain FIRM during the entire contract period till completion and no escalation shall be allowed. The price are inclusive of all applicable taxes and duties.

The Contract values for the respective locations are indicated below:

Sl. No.	Location	Total Contract Values including Taxes & Duties in INR
1	Pare HEP, Arunachal Pradesh	Rs.41,69,816.00
2	Tuirial HEP, Mizoram	Rs.41,69,816.00
3	Doyang HEP, Nagaland.	Rs.41,69,816.00

3. **DELIVERY SCHEDULE:** The basis of consideration and the essence of the Contract shall be the strict adherence to the time schedule for performing the specified works under the Contract.
The Purchaser's requirement of completion schedule for the entire work is mentioned hereunder:
   a) For Pare HEP: 3 (Three) Months from the date of issue of Letter of Intent.
   b) For Tuirial HEP: 3 (Three) Months from the date of issue of Letter of Intent.
   c) For Doyang HEP: 3 (Three) Months from the date of issue of Letter of Intent

4. **TAXES AND DUTIES:**
4.1 All applicable taxes and duties are indicated separately in the Price Schedule-A. The Taxes and duties payable shall be paid directly to the authority concerned by the Contractor and the same shall be reimbursed by the Owner on production of documentary evidence.
4.2 In the event of imposition of new taxes or duties, if any, the same will be re-imbursed /recovered by the Owner to/from the Contractor as the case may be, at actual on production of documentary evidence.
4.3 In case of replacement or re-structuring of any tax in lieu of existing tax, the differential amount will be reimbursed to or recovered from the Contractor by the Purchaser at actual on

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production of documentary evidence

5. **CONTRACT PERFORMANCE GUARANTEE:**

5.1 Within 15(Fifteen) days from the date of issue of Letter of Intent, the Contractor shall furnish Bank Guarantees in prescribed format as per clause 5.2 below, 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 along with the other terms and conditions agreed to. The Bank Guarantees shall be initially valid for such period to cover 90 (ninety) days after the warranty period as per Agreement.

5.2 Three numbers Bank Guarantees shall be submitted as under:

a) One for the scope related with Pare HEP, Arunachal Pradesh for the amount equal to the 10% of the contract value for the scope related with Pare HEP, Arunachal Pradesh.

b) One for the scope related with Tuirial HEP, Mizoram for the amount equal to the 10% of the value of the contract value for the scope related with Tuirial HEP, Mizoram.

c) One for the scope related with Doyang HEP, Nagaland for the amount equal to the 10% of the value of the contract value for the scope related with Doyang HEP, Nagaland.

5.3 The Bank Guarantee for amounts expressed in Indian Rupees only shall be acceptable. The Bank Guarantee shall be issued either by a Nationalized Bank/Scheduled Bank incorporated in India or any International Bank situated in India and registered with RBI as scheduled Foreign Bank. The Bank Guarantee submitted by any foreign bank which is not a scheduled Bank in India shall be duly countersigned by any Nationalized Bank/Scheduled Bank in India

5.4 The Contractor shall, on receipt of written instruction from the Owner, 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 Owner and shall furnish the extended/revised Bank Guarantee or any extension thereof. In case the extended/revised Bank Guarantee is not received by the Owner within the specified period, the Owner, entirely at his discretion, shall be at liberty to encash the aforesaid Bank Guarantee.

5.5 The Performance Guarantee shall cover additionally the following guarantees to the Purchaser:

5.5.1 The successful and satisfactory completion of the scope of work under the Contract as per the specifications and documents.

5.5.2 That the equipment provided 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 material/equipment within the period of guarantee, specified in the bid documents.

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5.6 The Bank Guarantee submitted in lieu of 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 fulfillment of the scope of supply and delivery in all respects.

5.7 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.

6. TIME – THE ESSENCE OF CONTRACT:

6.1 The date of completion of the works, as stipulated in the bid documents by the Purchaser with or without modifications, if any, and so incorporated in the Letter of Intent shall be deemed to be the essence of the Contract. 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 Letter of Intent by the Purchaser. The Contractor's liability for delay in completion shall be as stipulated under the Clause No. 7 below.

6.2 The scope of work for respective locations under the contract shall be completed within 3(three) months from the date of issue of Letter of Intent.

7. LIQUIDATED DAMAGE:

Time is the essence of the contract. If the performance of the Contract is delayed beyond the time schedule 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 Contract:-

A. In case of delay in supply and delivery beyond the schedule date of contract for the respective delivery location, deduct ½ % (half percent) of the Contract price of the respective location per week or part thereof of delay in execution of the contract for the particular location, subject to maximum of 10%(ten percent) of the Contract price of the respective location.

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

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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

8. INSURANCE AND INDEMNITY:

8.1 The Contractor shall at his own cost, arrange, secure and maintain Insurance as may be pertinent to the works and obligatory in terms of law to protect his interests and the interest of the Purchaser against all possible risks, without in any manner limiting its obligations and responsibilities, in the joint names of the Purchaser and the Contractor, so as to cover any damage or loss of materials during handling, transporting to site, and subsequent taken over by the Purchaser, against all risks which are insurable for their replacement value, for which the Contractor shall be responsible according to the Contract. The contractor shall be responsible to maintain adequate insurance coverage at all time during the period of the contract.

8.2 Insurance coverage shall be upto the delivery of the equipment at site and 30 days thereafter.

8.3 Any loss/damage during handling, transporting to site, and subsequent taking over by the Purchaser, the Contractor shall take immediate action for replacement/rectification of the loss/damage. The Contractor shall have the sole liability/responsibility for settlement of claim with the under-writers towards loss/damage, if any, and, therefore, replacement/rectification of the loss/damage shall be made good immediately at no extra cost to the Purchaser and without waiting for settlement of claim.

8.4 The contractor shall take insurance policy for all workman employed by him against possible accidents and injuries at works as required by the relevant rules and it shall be the obligation of the contractor to pay compensation if any to his workman as per Workman compensation act.

8.5 The Contractor shall indemnify and keep indemnified and save harmless the Owner, against all claims for damage to property arising under or by reason of this Contract if such claims result from the fault and/or negligence or act or omission of the Contractor, his Sub-Contractors and their employees, agents and representatives.

8.6 Under the Contract, the Contractor shall be responsible for loss or damage to the Works for which the Contractor is liable under the provisions of the Contract until the date of expiry of the Defects Liability Period in accordance with the provisions of the Contract

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9. **FORCE MAJEURE:** The "Force Majeure" risks are those which are beyond the control of either the Corporation or the Contractor and are defined as below:

a) War (whether declared or not), hostilities, invasion, acts of foreign enemies, rebellion. revolution, insurrection of military or usurped power, or civil war;

b) Contamination by radio activity from any nuclear fuel, or from any nuclear waste or radioactive materials;

c) Pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds;

d) Acts of God (like floods, Inundation, tornadoes, Storm/ Tempest/ Hurricane/ Typhoon/ Cyclone/ Lightning or other atmospheric disturbances, Earthquake, Landslide/ Rockslide/ Subsidence or any loss or damage caused by forces of nature);

e) Damages due to any Political or Religious incidence;

f) Act of Terrorism;

g) Riots or commotion or disorder, unless solely restricted to employees of the Contractor or his sub-contractors and arising from the conduct of the Works;

h) Martial law, damage from aircraft, nuclear fission, nuclear reaction, nuclear radiation, or radioactive contamination;

i) Fire (not caused by negligence of the Contractor/its Sub-contractors/ their personnel); and

j) Other such causes, 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 affected 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.

9.1 Loss to any party due to occurrence of Force Majeure risk shall be borne by the respective Party.

9.2 Should there be a request for extension of time arising out of "Force Majeure", the same shall be considered. No compensation, whatsoever, will be allowed to the Contractor for the delay arising out of Force Majeure condition.

10. **SETTLEMENT OF DISPUTE:**

10.1 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 written appeal by the Contractor to the Engineer-in-charge.

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10.2 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 Purchaser prior to proceedings for arbitration.

10.3 If amicable settlement cannot be reached, then all disputed issues shall be settled by arbitration as provided in the ARBITRATION clause below.

11. ARBITRATION:

11.1 If a dispute of any kind, whatsoever, arises between the Corporation and the Contractor in connection with, or arising out of, the Contract Agreement or the execution of the works under the said Contract Agreement, whether during the execution of the work or after completion thereof and whether before or after repudiation or otherwise termination of the Contract, including any dispute as to any opinion, instruction, determination, certificate or valuation of the Engineer-in-Charge, such reference shall state that it is made pursuant to this Clause. Not later than 60 (sixty) days after the day on which he receive such reference, the Engineer-in-Charge shall give notice of his decision to the Contractor. Such decision shall state that it is made pursuant to this clause.

Unless the Contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the works with all due diligence and the Contractor and the Corporation shall give effect forthwith to every such decision of the Engineer-in-Charge, unless and until the same shall be revised, as hereinafter provided, or by amicable settlement or through an arbitral award.

If the Contractor is not satisfied with any decision of the Engineer-in-Charge, or if the Engineer-in-Charge fails to give notice of his decision on or before the 60th (sixtieth) day after the day on which he receives the reference, then the Contractor may, on or before the 45th (forty fifth) day after the day on which he receives notice of such decision or on or before the 45th (forty fifth) day after the day on which the said period of 60 (sixty) days expires, as the case may be, give notice to the Corporation of his intention to commence Arbitration as hereinafter provided, with regard to the matter in dispute. Such notice shall establish the entitlement of the party giving the same to commence Arbitration, with regard to such dispute which is subject to Sub-clause 11.3, which stipulates that no Arbitration in respect thereof may be commenced unless such notice is given.

If the Engineer-in-Charge has given notice of his decision with regard to a matter in dispute to the Contractor and no notice of intention to commence Arbitration with regard to such dispute has been given by the Contractor on or before the 45th (forty fifth) day after the day on which the parties receive notice with regard to such decision

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from the Engineer-in-Charge, the said decision shall become final and binding upon the Contractor. Thereafter, such issues shall not be subjected to Arbitration.

11.2 **Amicable Settlement**:
Where notice of intention to commence Arbitration as to a dispute has been given in accordance with Sub-clause 11.1, the parties shall attempt to settle such dispute amicably before the commencement of Arbitration. Provided that, unless the parties otherwise agree, Arbitration may be commenced on or after the 90th (ninetieth) day after the day on which notice of intention to commence Arbitration of such disputes was given, even if no attempt at amicable settlement thereof has been made.

11.3 **Arbitration**: Any dispute in respect of which:

a) The decision, if any, of the Engineer-in-Charge has not become final and binding pursuant to Sub-clause 11.1 and

b) Amicable settlement has not been reached within the period stated in Sub-clause 11.2 shall be finally settled, unless otherwise specified in the contract as below:

i) A dispute with an Indian Contractor shall be settled by Arbitration in accordance with the Indian Arbitration and Conciliation Act, 1996 (Act No.26 of 1996) and any rules made there under and to such other order or orders, instructions issued by the Government of India from time to time in this connection. The Arbitration Tribunal shall consist of a Sole Arbitrator to be appointed by the Chairman and Managing Director of NEEPCO or by his duly authorised representative out of a Panel of names of three Arbitrators, proposed by him and selected by the Contractor. For the purposes of the Sub-clause, the term "Indian Contractor" means a Contractor who is registered in India and is a juristic person created under Indian law as well as Joint Venture between such a Contractor and a Foreign Contractor.

ii) The parties to the dispute, prior to referring the dispute to the Arbitrator/or Arbitrators as the parties may mutually decide, first drawn up the specific terms of reference/issues by way of a separate Joint Agreement, which shall be filed before the Arbitrator or Arbitrators for commencing the proceedings.

iii) No dispute or difference of opinion, whatever, shall be referable to the Arbitration after the expiry of period of 2 (two) years from the date when such dispute or difference of opinion arises.

iv) The reference to Arbitration may proceed notwithstanding that the works shall not then be or be alleged to be complete, provided always that the obligations of the Corporation and the Contractor shall not be altered by reason of the Arbitration being conducted during the progress of the works. The Contractor will ensure that the work under the Contract shall continue during Arbitration proceedings and

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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.

v) Arbitration proceedings shall be held at Shillong / Guwahati and the language of the Arbitration proceedings and that of all documents and communications between the parties shall be English.

vi) The expenses of the Arbitrators, as determined by the Arbitrator, shall be shared equally by the Corporation and the Contractor. However, the expenses incurred by each party in connection with the preparation, presentation etc. of its case prior to during and after the Arbitration proceedings shall be borne by each party itself.

vii) In the event of dispute or differences arising between NEEPCO and a Government Department or in between NEEPCO and another CPSE, settlement of disputes through the Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD) shall be done as under.

"In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between CPSEs/Port Trusts inter se and also between CPSEs and Government Departments /Organisations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such disputes or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM no. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018."

viii) The Arbitrator appointed shall have no power to award interest on any claim referred to the Arbitration. No claims for interest or damages on whatsoever count will be entertained by the Corporation with respect to any dispute, difference or misunderstanding between the Corporation and the Contractor.

12. DECISION OF THE ENGINEER-IN-CHARGE:

12.1 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.

12.2 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 15 (fifteen) days after receipt of the same. However, in the process, that Contractor shall continue to execute the work as per instruction 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.

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12.3 The Purchaser's decision and filing of the written objection thereto shall be a condition precedent to the right to request for Arbitration. It is in 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.

13. GUARANTEE / WARRANTY.

13.1 The goods supplied and delivered against the contract shall be under warranty independently for each Fire Tender for a period of 12 (twelve) months from the date of acceptance of the Fire Tenders by the respective Engineer-Incharge on delivery at respective locations. During the warranty period, the Contractor shall remain liable to replace any defective materials and/or rectify any damage/deficiency that may develop or remained undetected in the goods supplied 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 goods will be returned to the Contractor at his own expense, unless otherwise arranged. If, during the period of warranty, any portion of the goods supplied 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) months from the date of such replacement / rectification. The replacement 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.

13.2 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.

13.3 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.

13.4 It shall be expressly understood that all expenses in respect of replacement / repair during the warranty period or extended warranty period as noted above including, but not limited to, transportation cost, all taxes, duties and levies as applicable, etc. till such spare parts are supplied and delivered after necessary repairs/ replacement shall entirely be to the Contractor's account.

14. TERMS OF PAYMENT:

Subject to acceptance of Contract Performance Guarantee, 100% payment shall be made on receipt of the Fire Tender at respective locations viz. Pare HEP , Turial HEP and Doyang HEP and on successful operation and demonstration of foam/water Fire Tender including training of purchaser's personnel at respective locations.

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14.1 **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 while submitting their invoices:

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:

Any directions, instructions or orders issued by the Government of India from time to time regarding any or all matters arising or pertaining to the Import License shall be binding on the Contractor

15. **Due date of Payment**
Payments shall be released within 30(Thirty) days from the date of receipt of technically clear invoice/bill at respective location by the respective Engineer –in- Charge.

16. **WITHHOLDING PAYMENT**: 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.

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i) When the grounds for withholding payment are removed, payments of the amount due to the Contractor shall be made by the Purchaser without delay.

17. PAYING AUTHORITY

17.1 Against the delivery of 1(one) No Fire Tender at Pare HEP, Arunachal Pradesh:
The Head of Finance,
Pare Hydro Electric Project, NEEPCO Ltd,
Doimukh, Papum Pare District, Arunachal Pradesh.

17.2 Against the delivery of 1(one) No Fire Tender at Turial HEP, Mizoram:
The Head of Finance, Turial Hydro Electric Project, NEEPCO Ltd,
Kolasib, Mizoram.

17.3 Against the delivery of 1(one) No Fire Tender at Doyang HEP, Nagaland:
The Head of Finance, Doyang Hydro Electric Project, NEEPCO Ltd,
Wokha, Nagaland.

17.4 In the event of the Contractor not being able to supply the materials / equipments or carry out the work and services in accordance with the terms of the Contract, the Purchaser shall have the right to recover any payments made from the Contractor

17.5 In case the Purchaser incurs any demurrage / wharfage due to delay in receipt of despatch document or any other reason attributable to the Contractor, the same shall be to the Contractor's account and shall be deducted or recovered from him.

18. BANK CHARGES

All bank charges of the Contractor's bank, shall be to Contractor's account.

19. ENGINEER-IN-CHARGE:

19.1 For 1(one) fire tender to be delivered to Pare HEP, Doimukh, Arunachal Prtadesh
The Head of Project,
Pare Hydro Electric Project, North Eastern Electric Power Corporation Limited,
Doimukh, Papum Pare District,
Arunachal Pradesh-791112.

19.2 For 1(one) fire tender to be delivered to Turial HEP
The Head of Project,
Turial Hydro Electric Project,
North Eastern Electric Power Corporation Limited,
Kolasib District, Mizoram-796101.

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19.3 For 1(one) fire tender to be delivered to Doyang HEP
The Head of Project,
Doyang Hydro Electric Project,
North Eastern Electric Power Corporation Limited,
Wokha District, Nagaland: 797100.

19.4 For Design & Engineering related matters:
The Executive Director (D&E),
North Eastern Electric Power Corporation Limited,
NEEPCO Bhavan, R. G. Baruah Road,
Guwahati, Assam -781005

20. CONSIGNEE:

The Fire tenders shall be delivered to the following consignees :

2.1 For 1 (one) no. to the Head of Project, Pare Hydro Electric Project, North Eastern Electric Power Corporation Limited, Papum pare District, Arunachal Pradesh-791112.
2.2 For 1(one) to the Head of Project, Turial Hydro Electric Project, North Eastern Electric Power Corporation Limited, Kolasib District, Mizoram-796101.
2.3 For 1(one) to the Head of Project, Doyang Hydro Electric Project, North Eastern Electric Power Corporation Limited, Wokha District, Nagaland-797100.

21. TAKING OVER/CERTIFICATES OF COMPLETION:

21.1.1 The plant/equipment shall be taken over on successful completion of the scope of work in the respective locations (ie, PaHEP, DHEP & TrHEP). The Engineer in-charge of respective location shall issue the completion/taking over certificate,

21.1.2 The completion/taking over certificate shall be issued immediately after successful commissioning, tests if any without any abnormal operation and with all parameters of the plant/equipment within acceptable limits and on handing over of the facilities to the Purchaser by the Contractor certifying that the facilities are allowed to operate on continuous basis without any restriction.

21.1.3 Issuance of taking over certificate by the Purchaser shall not relieve the Contractor of any of the obligations which otherwise survive by the terms and conditions of the Contract.

22. CONTRACT AGREEMENT: The Detailed Order and all the correspondences starting from Notice Inviting Bids to LOI and acceptance thereof with the successful bidder shall form the Contract Agreement which shall be binding on both the parties for successful execution of the Contract.

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23. ASSIGNMENT AND SUBLETTING OF CONTRACT:

The Contractor shall not, without the prior consent in writing of the Purchaser, assign or sublet or transfer the Contract or any part thereof.

24. DEDUCTION FROM CONTRACT PRICE.

24.1 The Purchaser shall 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.

24.2 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.

25. PACKING, FORWARDING AND SHIPMENT:

25.1 The Contractor shall be responsible for securely protecting and packing the materials 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.

25.2 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.

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25.3 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.

25.4 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.

25.5 The following documents shall be sent by Registered Post to the Consignee within 3 (three) days from the date of despatch

a) Test Certificate (6 copies)
b) Certificate of waival, if inspection is waived (6 copies)
c) Invoice (6 copies)
d) Certificate of Insurance (6 copies)
d) Proof of despatch (6 copies)

25.6 All demurrage and other expenses incurred due to delayed clearance of the material and which are attributable to the Contractor during transportation shall be to the account of the Contractor.

26. INSPECTION AND TESTING:

26.1 All materials/ equipment manufactured by the supplier himself and /or by his sub vendor against the purchase order shall be subject to inspection, check and/or test by the authorized representative of the purchaser at all stages and places before, during and after manufacturing.

Inspection by the representative of the purchaser or waiver of inspection of the material/ equipment shall not relieve the supplier of any responsibility or liability. The authorized representative of the Purchaser shall be provided access to vendor's and/ or sub-vendors premises at any time during the pendency of the contract for expediting inspection/ checking etc. of the progress of work.

26.2 The Contractor shall give the Purchaser 15 (fifteen) days written notice of any material being ready for testing. The Purchaser's representative / 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.

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नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)
NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Website: www.neepco.co.in, E-mail: contract_neepco@yahoo.com
OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT)
ISO: 9001, 14001 &45001
BrooklandCompound:: Lower New Colony,
Shillong-793 003 :: Ph: 91-364-2227784
Corporate Identity Number (CIN): U40101ML1976GOI001658

27. DECISION OF THE ENGINEER-IN-CHARGE:

27.1 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.

27.2 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 15 (fifteen) days after receipt of the same. However, in the process, that Contractor shall continue to execute the work as per instruction 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.

27.3 The Purchaser's decision and filing of the written objection thereto shall be a condition precedent to the right to request for Arbitration. It is in 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.

28. MATERIALS AND WORKMANSHIP

28.1 The Contractor hereby guarantees, interalia, the following:

a. Use of best quality and strength of materials
b. Satisfactory operation during the period of the operation and maintenance period.
c. Performance figures as specified for all parts under the severest condition of operation.

28.2 The Contractor hereby also guarantees that the materials shall be new and of best quality workmanship and the materials shall have no defect in design and / or manufacture, and shall meet the requirements of the specification and shall be in all respects suited for purposes intended.

28.3 The Contractor shall remedy, without any cost to the Owner, all defects in design materials and workmanship which may develop under normal use and which have been called to the attention of the Contractor prior to the expiry of the warranty period.

29. DELIVERY OF PLANT / EQUIPMENT.

29.1 The Contractor shall deliver the materials at the place (s) and in the manner as specified in the Contract with due intimation to the Consignee in advance. The Contractor shall comply with all instructions that may be given by the Purchaser from time to time for the delivery of the goods.

29.2 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. He shall also take immediate steps to repair the damages or to replace the loss and damages as per the instruction of the Engineer-in-charge.

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Corporate Identity Number (CIN): U40101ML1976GOI001658

29.3 Property or title of the plant / equipment / goods shall not pass to the Purchaser unless these are actually delivered at the designated places.

29.4 The Purchaser shall not be responsible to the Contractor to secure/arrange/provide means of transport. Similarly, any road license and or permit, if necessary, shall be arranged by the Contractor. However, if any documentary assistance is necessary to facilitate transportation, these will be supplied to the Contractor to the extent possible

30. INSTRUCTION MANUALS:

The Contractor shall furnish 6 (Six) copies of Instruction Manuals, Manufacturers' Operation & Maintenance Manuals for all Instrumentation/equipment etc. during delivery of the Fire Tender. The manuals shall contain full details such as drawings of all the equipment furnished, storage procedures, operation and maintenance procedures of the equipment. Descriptive literature and data on various equipment shall also be furnished along with these manuals.

31. OTHER TERMS AND CONDITIONS: All other terms & condition not specifically mentioned here shall be as per the terms and conditions of Notice Inviting Bids and the Bid Documents and amendments thereof, if any,

You are requested to acknowledge receipt of this detailed Order and confirm unconditional acceptance within 3(three) days from its date of issue.

Thanking you,

Yours Sincerely,

(S.Goswami)
Chief General Manager
i/c Contract & Procurement
NEEPCO Ltd., Shillong.

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नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)
NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
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Website: www.neepco.co.in, E-mail: contract_neepco@yahoo.com
OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT)
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Corporate Identity Number (CIN): U40101ML1976GOI001658
ISO: 9001, 14001 &45001

Not in original.
Memo No. QP/C&P/F/E/Fire Tender/2038/Vol-II/1036-45 dt. 02/09/19

Copy to:

1. The Director(T), NEEPCO, Shillong - for favour of kind information please.
2. The Executive Director, O&M, NEEPCO, Shillong - for favour of kind information please
3. The CGM, i/c (Projects) Hydro, NEEPCO, Guwahati. for kind information please.
4. The CGM, i/c D&E, NEEPCO, Guwahati, for favour of kind information please.
5. The HOP, TrHEP, Kolasib, NEEPCO, Mizoram – for information and needful please.
6. The HOP, DHEP, Wokha, NEEPCO, Nagaland – for information and needful please
7. The HOP, PARE HEP, Papum Pare, NEEPCO, Arunachal Pradesh – for information and needful please
8. The Chief General Manager (F), NEEPCO, Shillong – for kind information please.
9. The General Manager(F), Concurrence, NEEPCO, Shillong – for information.
10. The General Manager(F), IC&A, NEEPCO, Shillong – for information.

02/09/19
Chief General Manager(C)

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North Eastern Electric Power Corporation Limited

Miniratna: Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

Materials Goods Receipt

Goods Receipt Number	5000026699	Goods Receipt Date	Nov 18, 2023
Consignee / Receiver Plant		1800 - DOYANG HYDRO ELECTRIC PLANT (DHEP)	
Consignee / Receiver Storage Location		-	
Delivery Note No		IPMA/2324/0736	
Vendor Address		101583 - Industrial Pumps & Motors 40, Strand Road,4th Floor, Kolkata West Bengal	
Transporter Name		National Carrying Corporation	
Vehicle Number		AS03BC5082	
L.R No.		MRD/00003x4	
L.R Date		Nov 2, 2023	
PO Number	3600003144	PO Date	Jun 14, 2023

S.No.	Material No.	Description	Qty Rcvd	UOM	Delivery Note Qty	Pending Po Qty	Valuation Type / Batch	WBS Element & Description	Project & Description
1		OPU Screw Pump, 240LPM , 40 Kgf/ cm²	1	NO	4.000	0			
2		OPU Screw Pump, 240LPM , 40 Kgf/ cm²	1	NO	4.000	0			
3		OPU Screw Pump, 240LPM , 40 Kgf/ cm²	1	NO	4.000	0			
4		OPU Screw Pump, 240LPM , 40 Kgf/ cm²	1	NO	4.000	0			

Remarks

Signature
(Site Engineer)

Signature
(Store Incharge)

North Eastern Electric Power Corporation Limited

Miniratna: Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

Materials Goods Receipt

Goods Receipt Number	5000004028	Goods Receipt Date	Jan 21, 2022
Consignee / Receiver Plant		1600 - DOYANG HYDRO ELECTRIC PLANT (DHEP)	
Consignee / Receiver Storage Location		DY03 - PH Store	
Delivery Note No		GL/21-22/39	
Vendor Address		100769 - GLOCON MANAB KALYAN NAAMGHAR ROAD TINSUKIA Assam	
Transporter Name		NetLink Express Service Private Limited	
Vehicle Number		MH48BM2091	
L.R No.			
L.R Date			
PO Number	3600000673	PO Date	Jun 2, 2021

S.No.	Material No.	Description	Qty Rcvd	UOM	Delivery Note Qty	Pending Po Qty	Valuation Type / Batch	WBS Element & Description	Project & Description
1	68900068850000	PROTECTIVE TANK FOR RIP BUSHING	9	NO	9.000	0	GD-NEW-ENI		
2	3000000535	RIP Bushing, 145 KV, 800 A for GT	1	NO	1.000	0			
3	3000000535	RIP Bushing, 145 KV, 800 A for GT	1	NO	1.000	0			
4	3000000535	RIP Bushing, 145 KV, 800 A for GT	1	NO	1.000	0			
5	3000000535	RIP Bushing, 145 KV, 800 A for GT	1	NO	1.000	0			
6	3000000535	RIP Bushing, 145 KV, 800 A for GT	1	NO	1.000	0			
7	3000000535	RIP Bushing, 145 KV, 800 A for GT	1	NO	1.000	0			
8	3000000535	RIP Bushing, 145 KV, 800 A for GT	1	NO	1.000	0			
9	3000000535	RIP Bushing, 145 KV, 800 A for GT	1	NO	1.000	0			

North Eastern Electric Power Corporation Limited
(Mini Ratna, Category-I, A Subsidiary of NTPC Ltd.)

Materials Goods Receipt

Vehicle Number			MH48BM2091						
10	3000000535	RIP Bushing, 145 KV, 800 A for GT	1	NO	1.000	0			

Remarks

Signature
(Site Engineer)

Signature
(Store Incharge)

North Eastern Electric Power Corporation Limited

Miniratna: Category-I PSU, A fully Owned Subsidiary of NTPC Ltd.

Materials Goods Receipt

Goods Receipt Number	5000007037	Goods Receipt Date	May 12, 2022
Consignee / Receiver Plant		1600 - DOYANG HYDRO ELECTRIC PLANT (DHEP)	
Consignee / Receiver Storage Location		-	
Delivery Note No		CIPL/012/2022-23	
Vendor Address		300092 - CHINDALIA INDUSTRIAL PRODUCTS LTD C-23, PUNIT INDUSTRIAL PREMISES CSL NAVI MUMBAI Maharashtra	
Transporter Name		Kati-Kintetsu express private limited	
Vehicle Number		NL05C 4790	
L.R No.			
L.R Date			
PO Number	3800000080	PO Date	Mar 7, 2022

S.No.	Material No.	Description	Qty Rcvd	UOM	Delivery Note Qty	Pending Po Qty	Valuation Type / Batch	WBS Element & Description	Project & Description
1		Square drive Hydraulic torque wrench	2	SET	2.000	0			
2		Sockets/inserts set	3	SET	3.000	0			
3		Reaction Arm	2	NO	2.000	0			
4		Pump Set for Torque Wrench	1	SET	1.000	0			
5		Customised Reaction Arm	2	NO	2.000	0			

Remarks

Signature
(Site Engineer)

Signature
(Store Incharge)

PART-II
FORM- 1

Summary Sheet

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION
Place : Region - North Eastern Region
State - Nagaland

Rs. in Lakh

S. No.	Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	
1	2	3	4	5	6	7	8	
1.1	Depreciation	1031.61	1034.39	1112.48	1218.47	1200.85	1269.05	
1.2	Interest on Loan	0.00	0.00	0.00	0.00	0.00	0.00	No normative loan outstanding
1.3	Return on Equity [1]	4056.92	4110.70	4226.04	4317.58	4343.80	4343.80	
1.4	Interest on Working Capital	424.02	432.74	451.08	457.89	474.44	485.06	
1.5	O & M Expenses	6812.24	7540.48	7982.36	8450.13	8945.31	9469.52	
1.6	Annual Fixed Cost Before Security Expenses, Capital Spares And Water Charges	12325.59	13118.30	13772.56	14444.07	15083.41	15568.24	
1.7	Security Expenses	1796.50	1545.96	1770.08	1453.33	1555.26	1796.50	
1.8	Water Charges	0.00	0.00	0.00	0.00	0.00	0.00	
1.9	Capital Spares	50.45	0.00	60.00	0.00	0.00	0.00	
2	TOTAL AFC	14172.54	14664.26	15602.64	15897.39	16816.67	17404.73	

Note:
1 Details of calculations, considering equity as per regulation, to be furnished.

(Petitioner)

PART-II
FORM- 1(I)

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

Statement showing claimed capital cost-(A+B)

Rs. in Lakh

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Opening Capital Cost	66636.59	67961.59	69642.02	70842.02	70842.02
2	Add: Addition during the year/period	1325.00	1680.43	1200.00	0.00	0.00
3	Less: Decapitalisation during the year/period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year/period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year/period	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	67961.59	69642.02	70842.02	70842.02	70842.02
7	Average Capital Cost	67299.09	68801.80	70242.02	70842.02	70842.02

Statement showing claimed capital cost eligible for R.o.E at normal rate (A)

In Lakh

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Opening Capital Cost	66204.22	67379.22	68953.71	69153.71	69153.71
2	Add: Addition during the year/period	1175.00	1574.49	200.00	0.00	0.00
3	Less: Decapitalisation during the year/period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year/period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year/period	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	67379.22	68953.71	69153.71	69153.71	69153.71
7	Average Capital Cost	66791.72	68166.47	69053.71	69153.71	69153.71

Statement showing claimed capital cost eligible for RoE at One Year MCLR+350 bps subject to ceiling of 14.00% (B)

In Lakh

S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Opening Capital Cost	432.37	582.37	688.31	1688.31	1688.31
2	Add: Addition during the year/period	150.00	105.94	1000.00	0.00	0.00
3	Less: Decapitalisation during the year/period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year/period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year/period	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	582.37	688.31	1688.31	1688.31	1688.31
7	Average Capital Cost	507.37	635.34	1188.31	1688.31	1688.31

(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 :	DOYANG HYDRO POWER STATION			
Place (Region/District/State):	North Eastern Region			

(Amount in lakhs)

Sl. No.	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	33354.57	33,752.07	34,256.20	34,616.20	34,616.20
2	Less: Adjustment in Opening Equity	Rs Lakh	-	-	-	-	-
3	Adjustment during the year	Rs Lakh	-	-	-	-	-
4	Net Opening Equity (Normal)	Rs Lakh	33,354.57	33,752.07	34,256.20	34,616.20	34,616.20
5	Add: Increase in equity due to addition during the year / period	Rs Lakh	397.50	504.13	360.00	-	-
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	33,752.07	34,256.20	34,616.20	34,616.20	34,616.20
10	Average Equity (Normal)	Rs Lakh	33,553.32	34,004.13	34,436.20	34,616.20	34,616.20
11	Rate of ROE	%	12.117%	12.117%	12.117%	12.117%	12.117%
12	Total ROE	Rs Lakh	4,065.66	4,120.28	4,172.63	4,194.44	4,194.44

	Return on Equity (Base Rate) (f)	%	10%	10%	10%	10%	10%
	Effective Tax rate	%	17.472	17.472	17.472	17.472	17.472
	Rate of ROE	%	12.117	12.117	12.117	12.117	12.117

(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 :		DOYANG HYDRO POWER STATION				
Place (Region/District/State):						
						(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)	129.71	482.21	954.56	1014.56	1014.56
2	Less: Adjustment in Opening Equity	0.00				
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	129.71	482.21	954.56	1014.56	1014.56
5	Add: Increase in equity due to addition during the year / period	352.50	472.35	60.00	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)	482.21	954.56	1014.56	1014.56	1014.56
10	Average Equity (Normal)	305.96	718.38	984.56	1014.56	1014.56
11	Rate of ROE	14.722	14.722	14.722	14.722	14.722
12	Total ROE	45.04	105.76	144.95	149.36	149.36
	One year MCLR +350 Basis point	12.150	12.150	12.150	12.150	12.150

(Petitioner)

PART-II
FORM-2

Details of COD, Type of Hydro station, Normative Annual Plant Availability Factor (NAPAF) & Other normative parameters considered for tariff calculation

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

Year Ending March

	Particulars	Unit	Existing 2018-19					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Installed Capacity	MW	3X25					
2	Free power to home state	%	12					
3	Free power under Local Area development Fund (LADF)							
4	Date of commercial operation (actual/anticipated)							
	Unit - 1	08-07-2000						
	Unit - 2	05-07-2000						
	Unit - 3	29-06-2000						
5	Type of Station		Surface					
	a) Surface / underground		Storage					
	b) Purely RDR / Pondage / Storage		Peaking					
	c) Peaking / non-peaking		3Hours					
	d) No. of hours of peaking		25MW					
	e) Overload capacity (MW) & period							
6	Type of excitation							
	a) Rotating exciters on generator		Static					
	b) Static excitation							
7	Design Energy (Annual) [1]	GWh	227.24					
8	Auxiliary Consumption including Transformation losses	%	1.2					
9	Normative Plant Availability Factor (NAPAF)		70%					
9.1	Maintenance Spares for WC	% of O&M						
9.2	Receivables for WC	in Months						
9.3	Base Rate of Return on Equity	%	10					
9.4	Base Rate of Return on Equity on Add. Capitalisation							
9.5	Tax Rate [2]	%						
9.6	Effective Tax Rate [4]		21.549	17.472	17.472	17.472	17.472	17.472
9.7	SBI Base Rate + 350 basis points as on ---------- [3]	%	12.20	11.65	11.55	11.55	11.55	11.55

1. Month wise 10 - day Design energy figures to be given separately with the petition.
2. Tax rate applicable to the company for the year FY 2018 - 19 should also be furnished.
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)

PART-II
FORM-3

Salient Features of Hydroelectric Project

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD. **For Technical**
Name of the Generating Station : DOYANG HYDRO POWER STATION

1. Location	
State / Distt.	Nagaland/Wokha
River	Doyang
2. Diversion Tunnel	
Size, shape	12.00 m dia. Horse shoe shaped
Length (M)	633.00 m
3. Dam	
Type	Rockfill with Impervious core
Maximum dam height (M)	92.00 m from the deepest foundation
4. Spillway	
Type	Chute Spillway with an ogee shaped
Crest level of spillway (M)	EL 321.00 m
5. Reservoir	
Full Reservoir Level (FRL) (M)	EL 333.00 m
Minimum Draw Down Level (MDDL) (M)	EL 306.00 m
Live storage (MCM)	400.00 M Cum
6. De - silting Chamber	
Type	NA
Number and Size	NA
Particle size to be removed (mm)	NA
7. Head Race Tunnel	
Size and type	Circular with Steel lined
Length (M)	427.26 M
Design discharge (Cumecs)	150 Cumec
8. Surge Shaft	
Type	NA
Diameter (M)	NA
Height (M)	NA
9. Penstock / Pressure shafts	
Type	Lattice type butterfly valve
Diameter & Length (M)	2.90 m
10. Power House	
Installed capacity (No of units X MW)	3 x 25 MW
Type of turbine	Vertical Francis Turbine
Rated Head (M)	67.00 m
Rated Discharge (Cumecs)	37.87 Cumec
Head at Full Reservoir Level (M)	80.50 m
Head at Minimum Draw down Level (M)	49.00 m
MW Capability at FRL	75 MW
MW Capability at MDDL	23 MW (Firm Power)
11. Tail Race Tunnel / Channel	
Diameter (M), shape	20.00 m x 6.50 m
Length (M)	52.00 m
Minimum tail water level (M)	El. 249.50 m
12. Switchyard	
Type of Switch gear	Type: SF6,1208FM-32AIEC-56(1987) 31.5 KA for 3 secs.
No. of generator bays	3
No. of Bus coupler bays	
No. of line bays	
Efficiency (overall) Turbine and generator	

Note : Specify limitation on generation during specific time period (s) on account of restrictions on water use due to irrigation, drinking water, industrial, environmental considerations etc.

(Petitioner)

PART - II
FORM - 5

Abstract of Admitted Capital Cost for the existing Projects

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

Name of the Generating Station : DOYANG HYDRO POWER STATION

All values in Lakh

	Capital Cost as admitted by CERC	
a)	Capital Cost admitted as on **31/03/2019**	64768.35
	(Give reference of the relevant CERC Order with Petition No. & Date)	order dtd 31.3.2022 in Petition No. 293/GT/2019
b)	Foreign Component, if any (In Million US $ or the relevant Currency)	**NIL**
c)	Foreign Exchange rate considered for the admitted Capital cost (Rs Lakh)	**NIL**
d)	Total Foreign Component (Rs. Lakh)	**NIL**
e)	Domestic Component (Rs. lakh)	64768.35
f)	Hedging cost, if any, considered for the admitted Capital cost (Rs Lakh)	
	Total Capital cost admitted (Rs. Lakh) (d+e+f)	

(Petitioner)

Annexure

Form for Assessment of additional capitalisation after 12th
2024-28

Name of the Petitioner :
Name of the Generating Station :
COD :
For 2024-2028

Sl. No.	Asset of Works/ Equipment	ACE Claimed (Actual (Provisional))			DOC Admitted for 2019-24	Regulation under which claimed	Allow by CERC in Opinion	Justification	Admitted Cost for the purpose of tariff (Rs Lakh)
		Projected ACE (Rs in Lakh)	30-Apr/Projected Liability incl. GST in col.1 (Rs in Lakh)	Claim in Lakh					
1	2	3	4	5	6	7		8	9
2	2023-24								
3	NEW ASSETS								
1	Annual Filing Fee	15.00				35(1)(c)		Petitioner is filing for waiver and restriction of generation charges. Hydel is Power Project, will associate with grid. Hence application of license/permission is not necessary. Filing and charges of Rs 15.00 Lakhs. Petitioner is filing for waiver and restriction of generation charges.	
2	Replacement and upgradation of 132kV SF6 Circuit Breaker (1 Nos.)	100.00				35(1)(c)		In compliance to the Grid Standard regarding retrofitting of 132kV Circuit Breakers, the existing 132kV SF6 Circuit Breakers are proposed to be replaced with refurbished ones. The existing CBs are more than 15 years old and have completed their useful life. Hence, the replacement is justified.	
3	Replacement of 132/33/11kV Power Transformer (Emergency 5 (Five) Nos. 50MVA Power Transformers (3+1+1 Spare) Along with Fire Protection System	15.00				35(1)(c)		The Fire Protection System is proposed to be installed for the existing 132/33/11kV Power Transformers. The Fire Protection System is proposed to be installed for the existing 132/33/11kV Power Transformers.	
4	Construction of New Single Room Office at Powerhouse	150.00				35(1)(c)		The construction of new single room office at Powerhouse is proposed to be carried out. The existing office is not adequate to accommodate the staff and visitors. The new office is proposed to be constructed in the vacant space available near the powerhouse.	
5	Construction of Boundary Wall around the Office and Staff Quarters	200.00				35(1)(c)		The construction of boundary wall around the office and staff quarters is proposed to be carried out. The existing boundary wall is not adequate to provide security to the office and staff quarters. The new boundary wall is proposed to be constructed in the vacant space available around the office and staff quarters.	
6	Construction of Internal Road from Main Gate to Powerhouse	100.00				35(1)(c)		The construction of internal road from main gate to powerhouse is proposed to be carried out. The existing road is not adequate to provide access to the powerhouse. The new road is proposed to be constructed in the vacant space available near the powerhouse.	
7	Supply, Installation, Testing and Commissioning of Digital Fire Alarm System	50.00				35(1)(c)		The digital fire alarm system is proposed to be installed for the existing 132/33/11kV Power Transformers. The existing fire alarm system is not adequate to provide early warning in case of fire. The new digital fire alarm system is proposed to be installed for the existing 132/33/11kV Power Transformers.	
8	Supply, Installation, Testing and Commissioning of Fire Hydrant System	75.00				35(1)(c)		The fire hydrant system is proposed to be installed for the existing 132/33/11kV Power Transformers. The existing fire hydrant system is not adequate to provide water for fire fighting in case of fire. The new fire hydrant system is proposed to be installed for the existing 132/33/11kV Power Transformers.	
9	Supply, Installation, Testing and Commissioning of Fire Extinguishers	25.00				35(1)(c)		The fire extinguishers are proposed to be installed for the existing 132/33/11kV Power Transformers. The existing fire extinguishers are not adequate to provide fire fighting in case of fire. The new fire extinguishers are proposed to be installed for the existing 132/33/11kV Power Transformers.	
10	Supply, Installation, Testing and Commissioning of Fire Alarm System	50.00				35(1)(c)		The fire alarm system is proposed to be installed for the existing 132/33/11kV Power Transformers. The existing fire alarm system is not adequate to provide early warning in case of fire. The new fire alarm system is proposed to be installed for the existing 132/33/11kV Power Transformers.	
	Total	1111.00	0.00	0.00					
4	2024-25								
5	NEW ASSETS								
1	Installation of Separate Voltage Transformer (PT) on 33kV Circuit Breaker of 1 (One) 132/33kV Transformer Feeder.	30.00				35(1)(c) Sub-1		The existing system is not in accordance with the latest safety norms. Therefore, the existing system is proposed to be replaced with a new system which is in accordance with the latest safety norms. The new system is proposed to be installed in the existing 132/33kV Power Transformer Feeder.	
2	Installation of Fire Alarm System	40.00				35(1)(c)		The existing fire alarm system is not adequate to provide early warning in case of fire. The new fire alarm system is proposed to be installed for the existing 132/33kV Power Transformers. The new fire alarm system is proposed to be installed for the existing 132/33kV Power Transformers.	
3	Installation of Carbon Dioxide Extinguishers System	10.00				35(1)(c)		The existing carbon dioxide extinguishers are not adequate to provide fire fighting in case of fire. The new carbon dioxide extinguishers are proposed to be installed for the existing 132/33kV Power Transformers. The new carbon dioxide extinguishers are proposed to be installed for the existing 132/33kV Power Transformers.	
4	Construction of Building for Power House Operators Office and Store/Workshop/Guard Room/etc.	15.00				35(1)(c) Sub-2, 3rd Proviso		The existing building is not adequate to accommodate the staff and visitors. The new building is proposed to be constructed in the vacant space available near the powerhouse. The new building is proposed to be constructed in the vacant space available near the powerhouse.	
	Total	95.00							
B	2025-26								
1	Replacement of existing Static Excitation System of GT#1	200.00				35(1)(c)		The replacement and upgradation of the existing static excitation system of GT#1 is proposed to be carried out. The existing system is not adequate to provide reliable excitation to the generator. The new system is proposed to be installed for the existing GT#1.	
2	Replacement of Unit Auxiliary Transformer (UAT)	150.00				35(1)(c)		The replacement of the existing UAT is proposed to be carried out. The existing UAT is not adequate to provide reliable power supply to the auxiliaries. The new UAT is proposed to be installed for the existing GT#1.	
3	Plant & Machinery Information System Cooling with Upgraded with SCADA	150.00				35(1)(c)		The existing plant and machinery information system is not adequate to provide reliable information to the operators. The new system is proposed to be installed for the existing GT#1.	
4	Upgradation of Weighing System, Control System, Hydro-Mechanical Gates, Valves, Penstock, Pipelines, Intake Panels	1.00				35(1)(c)		The upgradation of the weighing system, control system, hydro-mechanical gates, valves, penstock, pipelines, intake panels is proposed to be carried out. The existing system is not adequate to provide reliable operation of the gates, valves, penstock, pipelines, intake panels. The new system is proposed to be installed for the existing GT#1.	
	Total	1.00							
5	2026-27								
1	Procurement of Spares for 132/33kV, 3*50MVA Transformers	1000.00				35(1)(c)		The procurement of spares for the existing 132/33kV, 3*50MVA Transformers is proposed to be carried out. The existing spares are not adequate to provide reliable power supply to the transformers. The new spares are proposed to be procured for the existing 132/33kV, 3*50MVA Transformers.	
	Total	1000.00							
6	2027-28 onwards								

1	Replacement of Track sets of Orders of Physical & Work	10000				[illegible]	Up/Down of [illegible]	[illegible]	
2	Work & Machinery in Operational Station - Closing when open line replacement of [illegible] plans					[illegible]	Up/Down of [illegible]	[illegible]	
	Total	200000		0.00					
A	[illegible]								
A	[illegible]								
	Total	0.00	0.00	0.00					
A	[illegible]								
A	[illegible]								
	Total	0.00		0.00					

1. As on the project have been completed and work has
2. The above table mentioned works to be done simultaneously the work completed of [illegible] [illegible]
3. As per [illegible] volume 1,2,3 and 4 , Part for [illegible]
4. Where any work is mentioned as per [illegible] the work
5. And further supplemental notes of [illegible] will be specific to engineering work which does not have work and the necessity of any violation of that particular item

Note:
1. If [illegible] is done [illegible] under and was not [illegible] [illegible] [illegible] [illegible] [illegible]
2. In case [illegible] are mentioned along with any variation, then the [illegible] [illegible] [illegible]

Item	Required	Unit wise works	Conference	Actual work	Total
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

PART-II
FORM-9C

Statement showing reconciliation of ACE claimed with the capital additions as per books

Will be given AT THE TIME OF TRUEING

TH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION
COD

Sl No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Closing Gross Block as per IND AS					
2	Add/Less: Adjustments					
3	Closing Gross Block as per IGAAP					
4	Opening Gross Block as per IND AS					
5	Add/Less: Adjustments					
6	Opening Gross Block as per IGAAP					
7	Total Additions as per books (1-2-4=7)					
8	Less: Additions pertaining to other Stages (give Stage wise breakup)					
9	Net Additions pertaining to instant project/Unit/Stage					
10	Less: Exclusions (items not allowable / not claimed)					
11	Net Additional Capital Expenditure Claimed (on accrual basis)					
12	Less: Undischarged Liabilities					
13	Add:Discharge of undischarged liabilities corresponding to admitted assests/works					
14	Net Additional Capital Expenditure Claimed (on cash basis)					

Note: Reason for exclusionof any expenditure shall be given in clear terms.

(Petitioner)

PART-II
FORM-VII

Form 5(b)

Statement of works Board Level/Executive level under Capital Source

Name of the Petitioner :
Name of the Generating Station (GS)/Sub-Station (SS)/Grid :
COD : DD-MM-YYYY

S. No.	Head of Work / Expenses	Total cost of Capital Spares	Vide Level	Total		Justification	Remarks
1	2	3	4	5 (1+2+3)	6		
	CAPITAL SPARES						
	2014-15						
	Thermal Control Valve Orifice	50.00					Power Grid will make Good Efforts to avail Rebate as per Rule 32(1) as per CERC Regulations

PART-II
FORM-9(I)

Complete

Detail of Assets De-Capitalised during the period

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION
Place (Region/District/State): North Eastern Region State: NAGALAND District: WOKHA

Sl. No.	Name of the Asset	Nature of de-capitalisation (whether claimed under reclation or as additional capital expenditure)	Original Value of the Asset Capitalised (Rs.	Year Put to use	Depreciation recovered till date of de-capitalisation. (Rs. in Lakh)	Remarks
1	2	3	4	5	6	

PART-II
FORM-12

Statement of Depreciation

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Power Station : DOYANG HYDRO POWER STATION

(Amount in lacs)

Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Capital Cost Opening	66619.82	66636.59	67961.59	69642.02	70842.02	70842.02
Capital Cost Closing	66636.59	67961.59	69642.02	70842.02	70842.02	70842.02
Average Capital Cost	66628.20	67299.09	68801.80	70242.02	70842.02	70842.02
Land Value	0.00	0.00	0.00	0.00	0.00	0.00
Rate of depreciation						
Depreciable Value	59957.83	59972.93	61165.43	62677.82	63757.82	63757.82
Balance useful life	17.27	16.27	15.27	14.27	13.27	12.27
Cumulative Depreciation upto previous year	42141.84	43143.45	44177.84	45290.32	46508.78	47808.64
Remaining Depreciable Value	17815.99	16829.48	16987.59	17387.50	17249.03	15949.18
Depreciation (for the period)	1031.61	1034.39	1112.48	1218.47	1299.85	1299.85
Depreciation (Annualized)	1031.61	1034.39	1112.48	1218.47	1299.85	1299.85
Cumulative Depreciation at the end of the period	43173.46	44177.84	45290.32	46508.78	47808.64	49108.49
Less: Cumulative depreciation adjustment on account of undischarged liabilities deduced as on 01.04.2009/COD	0.00	0.00	0.00	0.00	0.00	0.00
Less: Cumulative depreciation adjustment on account of decapitalization (Refer: Form 9B)	30.01	0.00	0.00	0.00		
Net Cumulative Depreciation at the end of the period	43143.45	44177.84	45290.32	46508.78	47808.64	49108.49

PETITIONER

PART-II
FORM-13

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Company : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

No normative loan outstanding

PETITIONER

PART-I
FORM-13 A

CALCULATION OF INTEREST ON NORMATIVE LOAN

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

(In Lacs)

Sl. No.	Particulars		2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Gross Normative loan - Opening	No normative loan is out standing					
	Cumulative repayment of Normative loan upto previous year						
	Net Normative loan - Opening						
	Add:Increase due to addition during the year / period						
	Less: Decrease due to de-capitalisation during the year / period						
	Less: Decrease due to reversal during the year / period						
	Add:Increase due to discharges during the year / period						
	Net Addition						
	Less : Repayment(s) of Normative Loan during the year						
	Repayment adjustment on a/c of de capitalisation (if)						
	Net Repayment						
	Net Normative loan - Closing						
	Average Normative loan						
	Weighted average rate of interest						
	Interest on loan						

PART-II
FORM-13B

Calculation of Interest on Working Capital

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

(Amount in Rs.)

Sl. No.	Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	3	(4)	(5)	(6)	(7)	(8)
1	Maintenance Spares	1291.31	1362.97	1402.87	1485.50	1575.09	1669.90
2	Receivables	1540.67	1540.67	1540.67	1540.67	1540.67	1540.67
3	O & M Expenses	708.16	732.83	792.08	821.67	871.10	929.60
4	**Total Working Capital**	**3540.14**	**3636.47**	**3795.62**	**3847.84**	**3986.86**	**4160.17**
5	Rate of Interest	12.00%	11.90%	11.90%	11.90%	11.90%	11.90%
6	**Interest on Working Capital**	**424.82**	**432.74**	**451.68**	**457.89**	**474.44**	**495.06**

Security Expenses(CISF) during 2024-29 DHEP (Based on Previous data)						
			2024-25	2026-27	2027-28	2028-29	2029-30
Security Expenses(CISF)			1253.48	1522.65	1409.86	1507.91	1685.63
Security Expenses(Other)			292.48	247.43	43.37	47.35	110.86
Total			**1545.96**	**1770.08**	**1453.23**	**1555.26**	**1796.50**

PETITIONER

PART-II
FORM-13C

Non-Tariff Income

Name of the Petitioner : **NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station : DOYANG HYDRO POWER STATION

(Amount in Rs. Lakh)

Sl. No.	Parameters	2024-25	2025-26	2026-27	2027-28	2028-29
1	Interest on Loans and advance	NIL				
2	Interest received on deposits					
3	Income from Investment					
4	Income from sale of scrap					
5	Rebate for timely payment					
6	Surcharge on late payment from beneficiaries					
7	Rent from residential building					
8	Misc. receipts (Please Specify Details)					
...	i)Transit Hostel recovery					
	ii) LD recovery from O&M Works					
	Total Revenue					
...	...					
...	... (add)					

(Petitioner)

PART-II
FORM-14A

Actual Cash Expenditure

Name of the Petitioner : **NORTH EASTERN ELECTRIC POWER CORPORATION LTD.**
Name of the Generating Station : DOYANG HYDRO POWER STATION

(Amount in Rs Lakh)

Particulars	Quarter-I	Quarter-II	Quarter-III	Quarter-n (COD)
1	2	3	4	5
Expenditure towards Gross Block				
Add:expenditure towards CWIP				
Add:Capital Advances,if any.				
Less:Undischarged liabilities (included above)				
Add/Less: Others				
Payment to contractors / suppliers towads capital assets			Not applicable Now	
Cummulative payments				

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

(Petitioner)

PART-II
FORM-15A

PERIOD 2019-24

Design energy and peaking capability (month wise)- ROR with Pondage/Storage type new stations

Generating Company: North Eastern Electric Power Corporation Ltd

Name of the Generating Station : DOYANG HYDRO POWER STATION

Installed Capacity: No of units3 X25 .MW= 75			
Month		**Design Energy* (MUs)**	**Designed Peaking Capability (MW)***
April	I	11.52	17
	II		
	III		
May	I	12.79	31
	II		
	III		
June	I	22.9	51
	II		
	III		
July	I	14.28	58
	II		
	III		
August	I	55.8	65
	II		
	III		
September	I	31.97	70
	II		
	III		
October	I	20.01	68
	II		
	III		
November	I	11.52	62
	II		
	III		
December	I	11.9	58
	II		
	III		
January	I	11.9	52
	II		
	III		
February	I	10.75	46
	II		
	III		
March	I	11.9	32
	II		
	III		
Total			

*As per DPR/TEC of CEA dated.....

Note :
Specify the number of peaking hours for which station has been designed.

PETITIONER

PART-II
FORM-16

Statement of Liability flow

Name of the Petitioner : NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
Name of the Generating Station : DOYANG HYDRO POWER STATION

₹ in lakh

Party	Asset / Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2024	Discharges (Yearwise)					Total discharged	Reversal (Yearwise					Total reversed	Liability as on 31.03.2024
					2024-25	2025-26	2026-27	2027-28	2028-29		2024-25	2025-26	2026-27	2027-28	2028-29		
1	2	3	4	5	6						7						
a) For assets eligible for normal RoE																	
b)) For assets eligible for RoE at One Year SBI MCLR + 350 bps subject to ceiling of 14.00%																	

(Petitioner)

PART II
FORM 17

Operation & Maintenance Expenses

Incase of Hydro generating station declared under commercial operation on or afte 01.04.2019

Total capital expenditure upto cutoff date (a)	
R&R expenditure (b)	
IDC & IEDC ©	
Capital Cost considered for O&M expense (d)=(a)-(b)-©	
First year annualize O&M expense @ 3.5% of above (e)=3.5% of (d)	
O&M expense for next year @ 4.7% of above (f) =4.7% of (e)	
Additional O&M expenses due to 7th Pay Commission Wage Revision	
Additional O&M expenses due to Minimum Wage Revision	
Additional O&M expenses due to Goods & Service Tax (GST)	

Note:Additional O&M expenses with supporting documents and computations to be provided for respective year of Tariff Period.

PART II
FORM18

Details of Statutory Charges (If Applicable)

Sl. No	Particulars	Unit Rate	No of Units	Amount Claimed
1	Electricity Duty	0	0	
2	Water Cess	0	0	
3				

(Petitioner)

Summary of issue involved in the petition

1	Petitioner:				
2	Subject				
3	Prayer:				
4	Respondents				
	Name of Respondents				
	a				
	b				
	c				
5	Project Scope :				
		IC			
		DE			
		FEHS			
		AUX			
		NAPAF			
	Cost				
		Sanction Cost			
		Latest RCE			
	Commissioning	Unit/Station COD			
	Claim	AFC			
		Capital cost			
		Initial spare			
		NAPAF			
		Design Energy			
		Any Specific			

North Eastern Electric Power Corporation Limited
OFFICE OF THE GENERATION & SWITCHWARD (E/M)
DOYANG HYDRO ELECTRIC PLANT, DOYANG,WOKHA
WOKHA-797100, NAGALAND, INDIA
Tel. No. ;E-Mail:

Purchase Order-3800000414 / Dt : 03.10.2024 **Rev.No. 0/03.10.2024**

To,

Vendor Name	:	SSBG-ER (BHEL), Kolkata
Vendor Code	:	101884
Address	:	, , , DJ-9/1, 3rd Floor,, Salt Lake City, , KOLKATA,- 700091 West Bengal, India
Contact No	:	03323211686
Email ID	:	rodcommkl@bhelpser.co.in,
PAN No.	:	AAACB4146P
GSTIN No.	:	19AAACB4146P1ZC

Sub: Order for Supply, Installation and Testing and Commissioning of Carbon Dust Extraction System and Oil Vapour Extraction System in 3 (three) Nos. of Hydro Turbine Generator Units of 3 x 25 MW Doyang Hydro Power Station.

Ref: 1) Your offer No. BHEL_Offer_NO_PS/SSBG/KOL/SB24K0139/BPH HDG/0035 Dtd. 05.06.2024
2) Your Email Dt. 6th Jul 2024
3) MoM Dt. 20.09.2024 between M/s NEEPCO and M/s BHEL.
4) LOI. NO: NEEPCO/DHPS/DGM(E)/HGC/2024-25/T-4/ 51 Date. 30.09.2024

Dear Sir/Madam,
The Corporation is pleased to award the above work as per the approved rates of the Corporation with the terms and conditions as mentioned hereunder.

S.No	Material Code	Material Des.	Qty.	Unit			Total Price
10		Carbon Dust Extraction System	3.000	NO	Basic Price	17,51,850.67	52,55,552.01
					Total		52,55,552.01
20		Oil Vapour Extraction System	3.000	NO	Basic Price	15,32,212.00	45,96,636.00
					Total		45,96,636.00
					Total Basic Price		98,52,188.01
					Total PO Val.		98,52,188.01

NINETY EIGHT LAKH FIFTY TWO THOUSAND ONE HUNDRED EIGHTY EIGHT Rupees ONE Paise Only

TERMS AND CONDITIONS

1. Scope:

Scope of contract: Supply, Freight and Insurance, Installation, Testing and Commissioning of :
i. 3 (three) Nos. of Carbon Dust Extraction System and
ii. 3 (three) Nos. of Oil Vapour Extraction System in the Hydro Turbine Generator Units of DHPS, NEEPCO.

2. Value:

The total Contract Value shall be Rs. 98,52,188.00 (Rupees Ninety-Eight Lakh Fifty-Two Thousand One Hundred Eighty Eight) only inclusive of Freight and Transit Insurance, Installation and Testing and Commissioning of the systems.

3. Price Basis:

The Price are FOR Doyang.The prices shall remain firm till completion of the contract. The above price is exclusive of GST and other applicable taxes.

4. Taxes:

GST: @18% or applicable GST will be paid extra as per actual at the time of delivery/completion of work.

5. Contract Performance Guarantee/Security Deposit:

6. Delivery Period/ Completion Time/ Contract Period:

The entire Scope of work under this contract shall be completed within 07 (seven) months from the date of issue of LOI or from the date of receipt of 10 % advance whichever is later. However, as the procured systems are to be installed during the ensuing lean hydro season, you are requested to take necessary action for early completion of the works. Invoice for 10 % advance may be submitted to the consignee/Engineer In-Charge for release of payment.

7. Consignee (Storage Location address) /Engineer In-charge:

Deputy General Manager (E/M),
Generator & Switch Yard Div.,
DHEP, NEEPCO Ltd,
Doyang, Wokha, Nagaland- 797100
Contact No: 9366114139, 9862769848
email: phnsym_dhep@rediffmail.com

8. Payment Terms:

Payment Terms:
(a)10% of Purchase Order value is to be paid as interest free advance along with Detail Purchase Order.
(b)80% payment along with applicable GST & TCS after receipt of material in full and good condition at site.
(c)Remaining 10% on successful Installation and Testing and Commissioning of the systems.
(d)Payment will be made through RTGs/NEFT. Bank charges, if any, for the payment will be on your account. The following information may be furnished for receiving payment through e-payment system:
1.Name of Beneficiaries 2.Name of Bank
3.Branch of Bank 4.IFSC Code of the Branch
5.Account Number 6.City/Town
7.Fax and Telephone Numbers 8.e-mail address.

9. Paying Authority:

The Deputy Manager (F&A), DHEP, NEEPCO Ltd, Doyang, Nagaland.

10. Guarantee/Warranty:

A.The warranty period of all the goods shall be 18 months from the date of supply or 12 months from the date of commissioning or standard warranty of the product offered by the Supplier if higher.
B.Any replacement / repairs required to be made under the provisions of the above guarantee will be carried out at our option either at our works or at site depending on the facilities available at site.

11. Penalty/Liquidated Damages:

FORCE MAJEURE: You shall not be liable for loss or damage resulting from any delay or failure to make shipment within time specified for all or any part of the equipment due to Acts of God, war declared, or undeclared , acts of public Enemy , riots civil commotion, invasion, insurrection , sabotage, acts or restraint of Governments federal, state or municipal action or regulation, delay in release of foreign exchange and for import license by Government embargoes, strikes or other labour trouble, fire, flood , hurricanes , accidents , epidemics, quarantine restrictions, delays or destruction#s or sinking of carriers, inability to obtain dock, lighter age or loading facilities , damage to or destruction in whole or in part of the equipment or manufacturing plant lock of , or inability to obtain raw materials, labour , fuel or supplies for any reason including defaults of suppliers or any failure on the part of the purchaser or his representative to approve or comment on drawing or other technical document within the period of one specified by us or any other causes contingencies or circumstances not subject to our control of a similar or dissimilar nature which prevents the manufacture or delivery of the equipment . Any such causes or delay even though existing on the date of contract or on the date of start of manufacture , shall extend the time of our performance by the length of delays occasioned thereby including delay reasonable incident to the resumption of normal production even though such case may occur after performance of our obligation has been delayed for the other cause.

12. Jurisdiction of Court:

Guwahati High Court Kohima Bench, Kohima Nagaland

13. Other Terms & Conditions:

1.Packing, Marking and Forwarding: The Contractor shall properly paint, pack and crate the equipment/materials as per prescribed standards in force to protect them from any loss, damage, deterioration, etc. during transportation to site and storage at site till installation. The contractor shall notify the Purchaser of the date of dispatch of every consignment from his works and the expected date of arrival at destination for the information of the Purchaser.
Each bundle or package shall have the following markings on it: -
i) The name and address of the Consignee
ii) Destination
iii) Relevant marks, reference numbers etc. for identification
iv) Directions for handling the materials
v) Each package shall also be accompanied with detailed packing lists to facilitate checking up of the contents at the destination.

2.DESPATCH: The materials shall be dispatched through BHEL approved Transport carriers only to the Consignee upto the Doyang Power Station, Doyang, Wokha-Dist. Nagaland. PIN: 797100, Nagaland.

3.FREIGHT & TRANSIT INSURANCE: Freight & Transit Insurance of the material shall be under the scope of BHEL.

4.REPLACEMENT OF GOODS BROKEN OR DAMAGED IN TRANSIT: In the event if goods broken or damaged in transit then the damaged or broken goods shall be replaced/ rectified by BHEL. Return of Goods mutually agreed between BHEL and NEEPCO for replacement/rectification by BHEL shall have to be booked to the consignor on Freight Prepaid and Door delivery basis together with the Original Transporter Copy of Tax Invoice of the earlier suppliers for availing reversal of the taxes paid. The Return of goods shall be done with the consent of BHEL and within 45 days from the date of receipt of the consignment.

5.MATERIAL RECEIPT, ACCOUNTING & STORAGE: NEEPCO shall raise the documents towards Materials Receipt, Inspection & Accounting within a period of 15 days from the date of receipt of each consignment. BHEL shall not own the responsibility on the delayed (Beyond 15 days after the receipt of Goods) accounting of the consignments. The consignments booked under Transporters Go-down Delivery basis shall have to be collected within 3 days from the date of receiving the information from the Transporter about the arrival of the consignment. No claim on account of shortages, damages & loss of materials shall be made on BHEL, However, BHEL will ensure handing over of the goods in good condition with proper packing and marking at the time of booking.

6.STANDARD QUALITY PROCEDURES: The BHEL shall follow their own standard quality procedures and Technical Delivery Conditions wherever available during the Manufacturing, Inspection and Testing of products. The same procedure shall be followed by the NEEPCO# s inspecting Authority at BHEL#s works or vendor works and then issue the required clearance for dispatch as and when required without insisting on for a fresh Quality procedure approved by the NEEPCO.

7.Materials and Workmanship/Standards: The Contractor shall have to guarantee that the equipment and materials shall be new and of best quality workmanship and the materials shall have no defect in design and or manufacture, shall meet the requirements of the specification and shall be, in all respects, suited for purposes intended. The Contractor shall remedy, without any cost of the Purchaser, all defects in design, materials and workmanship which may develop under normal use and which have been called to the attention of the Contractor prior to the expiry of the warranty period.

8.E-way Bill: Any road license and / or e-way bill, if necessary, shall be arranged by the Contractor at his own cost. However, if any documentary assistance is necessary to facilitate the transportation, this will be supplied by the Purchaser wherever possible.

9.All other terms and conditions shall be as per your quotation unless further amendment is made for facilitating delivery of the materials.

14. Attachment:

Thanking you.

Yours faithfully.

(Signature) 18/10/2024

Name : S. PATTON
Designation : DGM (E/M)

Mobile No : 7005522602
Email ID :

नॉर्थ ईस्टर्न इलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)
NORTH EASTERN ELECTRIC POWER CORPORATION LIMITED
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
ISO 9001, 14001 & 45001
Website: www.neepco.co.in, E-mail: contract_neepco@yahoo.com
OFFICE OF THE EXECUTIVE DIRECTOR (CONTRACTS & PROCUREMENT)
Brookland Compound :: Lower New Colony
Shillong-793 003 :: Ph: 91-364-2227784
Corporate Identity Number (CIN): U40101ML1976GOI001658

TENDER INFORMATION

Bid No. GEM/2024/B/5319557 Dated 23/08/2024

NEEPCO Ltd. has published e-Tender for **"FIRE DETECTION, ALARM AND PROTECTION SYSTEM FOR DOYANG HYDRO POWER STATION"** at Government e-Marketing (GeM) portal http//gem.gov.in vide Bid no. **GEM/2024/B/5319557 Dated 23/08/2024.**

The last date & time for bid submission is upto 14:00 Hours of 20/09/2024 and opening of Techno-Commercial Bids on 20/09/2024 at 14:30 Hours onwards.

Bidders are requested to visit the GeM portal for participation in the tender. Any subsequent change/modifications/notifications against this tender shall be uploaded in GeM portal only.

23/08/2024

Deputy General Manager(E)
Contract & Procurement
NEEPCO Ltd, Shillong

Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2024/B/5422851
Dated/दिनांक : 27-09-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	15-10-2024 13:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	15-10-2024 13:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	180 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Power
Department Name/विभाग का नाम	North Eastern Electric Power Corporation Limited
Organisation Name/संगठन का नाम	North Eastern Electric Power Corporation Limited
Office Name/कार्यालय का नाम	Doyang Hydro Electric Plant
Total Quantity/कुल मात्रा	140
Item Category/मद केटेगरी	Portable Fire Extinguisher as per IS 15683-2018 Stored Pressure Type Extinguisher with pressure Gauge - Carbon Dioxide CO2 Fire Extinguisher - Capacity 4.5 KG , Portable Fire Extinguisher as per IS 15683 -2018 Stored Pressure Type Extinguisher with pressure Gauge - Powder Based ABC Fire Extinguisher as per 4308 - Capacity 9 KG , Portable Fire Extinguisher as per IS 15683-2018 Stored Pressure Type Extinguisher with pressure Gauge - Foam Based Fire Extinguisher - AFFF as per 4989 Capacity 09 Ltr , Wheeled Trolly Mounted Fire Extinguisher as per IS 16018 Stored Pressure Type Extinguisher with pressure Gauge - Foam Based Fire Extinguisher - AFFF as per 4989 Capacity 60 Ltr , Wheel Trolly Mounted Fire Extinguisher as per IS 16018 Stored Pressure Type Extinguisher with pressure Gauge - Foam Based Fire Extinguisher - AFFF as per 4989 Capacity 60 Ltr
GeMARPTS में खोजी गई स्ट्रिंग / Searched Strings used in GeMARPTS	Procurement of various types of portable Fire Extinguisher and Trolley Mounted Fire Extinguisher for Replacement of Old and expired fire extinguisher
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Watermist and Caf Fire Extinguisher Low Pressure Trolley Mounted (V2), Automatic Fire Ball for Fire - Extinguishing, Watermist and CAF Fire Extinguisher High Pressure Trolley Mounted (V2), Portable Fire Extinguishers (V2) as per IS 15683:2018
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	• AutomationTestCategory_DoNotUse
BOQ Title/बीओक्यू शीर्षक	Procurement of Fire Extinguisher with buyback of old extinguisher from NEEPCO Doyang Wokha Nagaland

Bid Details/बिड विवरण	
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	5 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	15 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/ **and Turnover**/टर्नओवर के लिए एमएसई को छूट प्राप्त है	Yes
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/ **and Turnover**/ टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है	Yes
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Do you want to show documents uploaded by bidders to all bidders participated in bid?/	No
Past Performance/विगत प्रदर्शन	60 %
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Two Packet Bid
Primary product category	Portable Fire Extinguisher as per IS 15683-2018 Stored Pressure Type Extinguisher with pressure Gauge - Carbon Dioxide CO2 Fire Extinguisher - Capacity 4.5 KG
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	3 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Arbitration Clause	No
Mediation Clause	No

EMD Detail/ईएमडी विवरण

Required/आवश्यकता	No

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
ePBG Percentage(%)/ईपीबीजी प्रतिशत (%)	3.00
Duration of ePBG required (Months)/ईपीबीजी की अपेक्षित अवधि (महीने).	50

(a). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

DGM(Tech)
Doyang Hydro electric plant, NORTH EASTERN ELECTRIC POWER Corporation Limited, Ministry of Power, DHPS, Doyang, Wokha, Nagaland.
(Debajyoti Dutta)

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes

MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes

1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having

supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
5. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
6. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.
OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

7. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.
8. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.
9. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 60% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Portable Fire Extinguisher As Per IS 15683-2018 Stored Pressure Type Extinguisher With Pressure Gauge - Carbon Dioxide CO2 Fire Extinguisher - Capacity 4.5 KG

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dalim Barman	797100,Doyang Hydro Electric Plant, Nagaland	46	30

Portable Fire Extinguisher As Per IS 15683 -2018 Stored Pressure Type Extinguisher With Pressure Gauge - Powder Based ABC Fire Extinguisher As Per 4308 - Capacity 9 KG

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्वदेशी आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Dalim Barman	797100,Doyang Hydro Electric Plant, Nagaland	73	30

Portable Fire Extinguisher As Per IS 15683-2018 Stored Pressure Type Extinguisher With Pressure Gauge - Foam Based Fire Extinguisher - AFFF As Per 4989 Capacity 09 Ltr

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Dalim Barman	797100,Doyang Hydro Electric Plant, Nagaland	19	30

Wheeled Trolly Mounted Fire Extinguisher As Per IS 16018 Stored Pressure Type Extinguisher With Pressure Gauge - Foam Based Fire Extinguisher - AFFF As Per 4989 Capacity 60 Ltr

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dalim Barman	797100,Doyang Hydro Electric Plant, Nagaland	1	30

Wheel Trolly Mounted Fire Extinguisher As Per IS 16018 Stored Pressure Type Extinguisher With Pressure Gauge - Foam Based Fire Extinguisher - AFFF As Per 4989 Capacity 60 Ltr

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकि विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dalim Barman	797100,Doyang Hydro Electric Plant, Nagaland	1	30

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. **Generic**

   OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. **Generic**

   Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

3. **Generic**

   Bidder shall submit the following documents along with their bid for Vendor Code Creation:

   a. Copy of PAN Card.

   b. Copy of GSTIN.

   c. Copy of Cancelled Cheque.

   d. Copy of EFT Mandate duly certified by Bank.

4. **Generic**

   Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

5. **Generic**

   For hazardous chemical/item, all precautionary measure as per regulation from the point of transportation/ handling/ storage/ safety/ health/ environment to be undertaken/ specified before dispatch. During dispatch, proper symbol for the hazard/ MSDS/ Batch No./ date of manufacturing/ Gross Weight/ Net Weight/ shelf Life etc are to be written/ printed/ pasted on the body of the packing.

6. **Generic**

   Manufacturer Authorization: Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

7. **Financial Criteria**

   NET WORTH: Net Worth of the OEM should be positive as per the last audited financial statement.

8. **Certificates**

   ISO 9001: The bidder or the OEM of the offered products must have ISO 9001 certification.

9. **Certificates**

   The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.

10. **Certificates**

Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer's Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.

11. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

12. **Buyback for Non PFMS / Non GPA**

Buyback for Non PFMS/Non GPA:
1. GST will apply on the value of buyback and separate invoice is to be prepared by Government buyer/Consignee for buyback items offline outside the GeM system. Vendor should work out input credit for that GST applicable on the buy back while quoting the product/services.
2. Input GST Credit consideration by seller- seller shall offer the prices in the bid by the total amount of new goods including GST- total amount of old goods quoted by the firm excluding GST. This is because GST charged by buyer on buy-back value will be available for full ITC (input tax credit) on the hands of bidder. Therefore, for the purpose of quoting in the bid and evaluation, value as quoted by the bidder (excluding any GST on buy back) as indicated in column G below will be considered.
Illustrative examples for bidders are as under for understanding of the seller.

Excel sheet for explanation to Buyback ATC							
S.no	**Cost of Fresh Good (A)**	**%age of GST on Fresh Good as considered by seller at the time of quote (B).**	**GST Amount on Fresh Good (C)**	**Cost of Buyback item (D)**	**%age of GST on Buyback items (E) as fixed by buyer in the bid**	**GST Amount on Buyback item (F) as applicable at the time of invoice by buyer**	**Quote of the Bidder (G= {A+C-D})**
1	100	28	28	20	8	1.6	108
2	100	9	9	20	8	1.6	89
3	110	10	11	24	8	1.92	97
Seller after the award of the GeM contract, will indicate all column A to G which will not alter their quoted price indicated in Colum-G							

3. Successful lowest bidder has to provide detailed cost break up of tendered items as well as buy back items separately after award of contract through email to the government buyer/consignee.
4. The seller of new item /service provider shall deposit the cost of invoiced buy back item with GST to the buyer for allowing seller to lift up the material from the buyer/consignee premise.
5. Transportation of buy back items from buyer premises shall be arranged by the seller itself without any extra cost.
6. Government Buyer organisation /consignee will issue invoice of buy back items to the seller at the cost of buyback to be indicated to the buyer by the seller offline after receipt of order. This in no case will modify the bid in any manner.
7. The seller will be entirely responsible for the safe disposal of old items without affecting the environment in any manner as per prevailing statutory rules and Act/ law of the land.
8. The seller may visit the site and inspect the condition of buy back item in advance before quoting for the bid.
9. Receipt of payment by the buyer for Old items and invoicing by buyer will be out of GeM portal.
10. Government Buyer will upload the details of old goods along with the bid in the corrigendum with minimum price.
11. If the minimum price (Optional) is indicated and sellers of new item who are not agreeing to take back the old item at equal to or above that minimum price should not participate in the bid.
12. In case they participate into the bid and afterwards indicates the price of old goods, less than the minimum price shown by Government Buyer in corrigendum, EMD of the bidder will be forfeited.
13. Item Details Consignee wise will be indicated in the corrigendum like -
    1. Consignee wise
    2. Item Description
    3. Serial Number
    4. Model
    5. Brand
    6. Year of manufacturing
    7. Purchased on
    8. Age

9. Size, Rating, Designation
10. Quantity
11. Min price (Optional)
12. Unit
13. Working Guidelines (/Functional/Non-Functional)
14. Remarks

14. The successful bidder shall remove the old goods from the premise of the Government buyer/consignee at the time of the supply, installation and commis-sioning of fresh goods. Seller will be entitled for payment only after removal of old goods from Government buyer/consignee/user's premise and after supplying the fresh goods in terms of contract.
15. Note: This clause of ATC shall be operated by non PFMS; non GPA buyer i.e. all PSU working through their ERP and not integrated with GPA.

13. **Buyer Added Bid Specific ATC**

Buyer uploaded ATC document Click here to view the file.

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for attached categories, trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है

In terms of GeN GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत है।बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---

OFFICE OF THE ASSTT. COMMANDANT
CENTRAL INDUSTRIAL SECURITY FORCE
(MINISTRY OF HOME AFFAIRS)

CISF Unit, DHEP Doyang,
Post : Doyang – 797 100
Dist : Wokha Nagaland
Dated :22/04/2020

PR-13019/DHEP(D)/MTO/MGT/2020 - 1083

To

The General Manager, (HOP)
NEEPCO Ltd. DHEP Doyang
Nagaland.

MD ...
DGM
14/5/2020

Subject: - **URGENT REQUIREMENT FOR SUITABLE VEHICLE:REG.**

It is to bring to your kind notice that you have provided 03 Nos light Vehicles to CISF for operational requirement. But at the present time vehicles have been road off due to mechanical/break failure from long time. The said vehicles are not in roadworthy condition and are required to be replaced with new vehicles for logistic support and operational duties. In case of any emergency, CISF personnel/QRT team cannot respond immediately due to unavailability of vehicles in CISF campus.

Hence, keeping in view CISF UNIT DOYANG is requested to provide suitable vehicle urgently for QRT and Operational duty purpose.

Your early action in this regard would be highly solicited please.

Thanking You

U.O. No. DHEP/HOP/ 75 Dtd 15/5/2020

ASSTT. COMMANDANT
CISF UNIT DHEP DOYANG (NL)

Copy to:-

01) The ED (Security) NEEPCO Ltd. HQrs Shillong. : For kind Information and necessary action please

02) The GP Commandant CISF Hqrs Guwahati : For kind Information please.

E-10

OFFICE OF THE ASSTT. COMMANDANT
CENTRAL INDUSTRIAL SECURITY FORCE
(MINISTRY OF HOME AFFAIRS)

CISF Unit, DHEP Doyang,
Post : Doyang – 797 10[illegible]
Dist : Wokha Nagaland
Dated 10/02/2021

PR-13019/D[illegible]P(D)/MTO/MGT/2021 - 447

To

The General Manager, (HOP)
NEEPCO Ltd. DHEP Doyang
Nagaland.

Subject : - **PROVIDE SUITABLE VEHICLE ON TEMP. BASIS UNTILL REPAIRING OF VEHICLE NO. NL-05-D-9450 (TATA 407): REG**

Kindly refer GP Commandant Letter no. 11099/CISF/GHG QM/MV/2020-2058 dated 15.05.2020 and this office letter no. 13019/DHEP (D)/MTO/MGT/2020-258 dated 27.01.2021 regarding provide suitable vehicle to CISF.

It is again to bring to your kind notice that TATA 407 (Vehicle No. NL-05-D-9450) has been provided to CISF for operational/ADM requirement. However said vehicle has been sent on dated **10.02.2021** for repairing of essential work due to mechanical breakdown. There is no alternative vehicle for effective implementation of duty deployment & preparedness to meet any contingency and threat at any time, Logistical support is must. In case of any emergency, CISF personnel/QRT team cannot respond immediately due to unavailability of vehicles in CISF campus.

Hence, keeping in view CISF UNIT DOYANG is requested to provide suitable vehicle urgently for Operational duty purpose or direction may please be given to concern section for this act.

Your early action in this regard would be highly solicited please.

Thanking You

A.M. (HQ)-
15/02/2021

ASSTT. COMMANDANT
CISF UNIT DHEP DOYANG (NL)

Copy to:-

1. Sr. Manager (E/M), U&WD
   Neeepco DHEP Doyang (NL)

: For kind information and necessary action please.

Shri D. Roy, action als plan file, [illegible]
action already taken.

28/2/2021

OFFICE OF THE ASSTT. COMMANDANT
CENTRAL INDUSTRIAL SECURITY FORCE
(MINISTRY OF HOME AFFAIRS)

CISF Unit, DHEP Doyang
Post: Doyang
Distt.:Wokha, Nagaland
Dated: 14/03/2023

L.No.PR-14016/CISF/DHEP(D)/MTO/2023- 284

To,

The Head of Project (HOP)
NEEPCO Ltd., DHEP Doyang.

Subject: - **REQUIREMENT OF QRT VEHICLE: REG**

It is submitted that previously one Maruti Gypsy vehicle was provided to CISF for QRT plant patrolling and to tackle other contingencies but due to worn-out condition of the vehicle it was surrendered back to the management on 28.05.2022 vide ltr No. PR-14015/CISF/DHEP/MTO/2022-875 dated 28.05.2022. Presently, QRT is facing difficulty for performing plant patrolling or to respond to any untoward incidents for want of QRT vehicle.

Therefore, it is submitted that one appropriate vehicle for QRT vehicle procured by the management in lieu of the surrendered vehicle may be provided on urgent basis. Currently this CISF Unit has three posted drivers and the said QRT vehicle will be driven by these drivers on requirement basis only.

Hence, it is requested that the matter may be taken up on priority basis.

ASSTT. COMMANDANT
CISF UNIT DHEP DOYANG (NL)

Copy to:
01. DGM HR/Security I/C
NEEPCO Ltd. DHEP, Doyang

North Eastern Electric Power Corporation Limited
Office of the Executive Director(Contracts and Procurement)
Brookland Compound, Lower New Colony
Shilong-793003, Meghalaya, India
Tel. No. 0364-2227784;E-Mail: contract@neepco.co.in

Purchase Order-3800000399 / Dt : 11.09.2024 **Rev.No. 1/23.09.2024**

To,

Vendor Name	:	ABB INDIA LIMITED
Vendor Code	:	500523
Address	:	, Door No. 48 & 50, , Prakasam Street, SKCL Harmony
	:	, CHENNAI,- 600017 Tamil Nadu, India
Contact No	:	9901490014
Email ID	:	sridhar.thiagarajan@in.abb.com,
PAN No.	:	AAACA3834B
GSTIN No.	:	33AAACA3834B1ZF

Sub: Award of works for DCS-based Auto Sequencer System, Plant Common Auxiliary System & Auto-Generator Control (AGC) for 3 x 25 MW Doyang Hydro Power Station, Wokha District, Nagaland.

Ref: 1. GEM Bid Number: GEM/2024/B/4837335 Dtd: 04/04/2024
2. GEM Contract No: GEMC-511687762995666 Dtd. 11/09/2024.

Dear Sir/Madam,

The Corporation is pleased to place this Order for the works of DCS-based Auto Sequencer System, Plant Common Auxiliary System & Auto-Generator Control (AGC) for 3 x 25 MW Doyang Hydro Power Station, Wokha District, Nagaland as per the terms and conditions detailed as under:

S.No	Material/Service Code	Material/Service Des.	Qty.	Unit			Total Price
10		Scada System	1.000	SET	Basic Price	8,93,09,547.55	8,93,09,547.55
					IGST %	18.00%	1,60,75,719.00
					Total		10,53,85,266.55
20		ICT Charges for DCS Based Auto sequencer	1.000	AU			10,699,734.09
20.10	20000136	Installation&Commissioning Plant Equip	1.000	NO	Basic Price	90,67,571.09	90,67,571.09
					IGST %	18.00%	16,32,163.00
					Total		1,06,99,734.09
					Total Basic Price		9,83,77,118.64
					Total IGST %		1,77,07,882.00
					Total PO Val.		11,60,85,000.64

ELEVEN CRORE SIXTY LAKH EIGHTY FIVE THOUSAND Rupees SIXTY FOUR Paise Only

TERMS AND CONDITIONS

1. Scope:

Scope of work covers the provisions of labour, tools, plants, materials and performance of work necessary for the dismantling, design, manufacture, quality assurance, quality control, shop assembly, shop testing before despatch, insurance, delivery to the site, site storage and preservation, installation, commissioning, performance and acceptance testing, training of Employer#s personnel, handing over to NEEPCO, availability of expert at site for one year and guarantee for two years of with Centralized and Decentralized Distributed Control System (DCS) based SCADA system for Unit Auto Sequencer, Switchyard & Common Axillary Control System, including EMS and Implementation of Automatic Generation Control (AGC) System as per the specifications provide in the technical specification of the bid document, complete with all auxiliaries, accessories as per schedule of requirements, spare parts and warranting a trouble free safe operation of the installation for the 3 x 25 MW Generating units, Doyang Hydro Power Station (DHPS).

The Detailed scope of Work is given in the Technical Specifications of the bid document which shall be read along with any subsequent amendments, clarifications if any.

2. Value:

Rs. 11,60,85,000 all-inclusive of GST.

3. Price Basis:

The price basis is "FIRM PRICE", strictly as per the Scope of the Proposal/ Schedule of Requirement in Section-IV of the Bid Document.

4. Taxes:

Taxes and Duties shall be as per cl.no. 20 of Sec-II of the bid document.

5. Contract Performance Guarantee/Security Deposit:

a. Within 30(thirty) days from the date of award of the contract through GEM Portal, the Contractor shall furnish a Bank Guarantee strictly in the prescribed format, for an amount equal to 5(Five) percent of the Total Contract Value by way of Guarantee for the due and faithful performance of the Agreement and for the due and faithful performance of the contract issued through GEM Portal along with the other terms and conditions agreed to.

b. The Bank Guarantee shall be initially valid for such period to cover 90 (ninety) days after the Warranty Period as per the Agreement.

c. Other Terms & conditions of the CPG shall be as per Cl.No.4 of Sec-IIIA of the bid document.

6. Delivery Period/ Completion Time/ Contract Period:

The entire scope of supply and work under this contract shall be completed as per the schedule indicated below, to be reckoned from the date of Notification of the contract award through GeM Portal.

a. The completion period for the entire Scope of supply and Erection, Testing, and Commissioning under this contract are as indicated below, to be reckoned from the date of issue of award of contract through GeM Portal:

Sl.No
Description
Completion Schedule

1. Supply of all equipment associated with all Units (i.e. units #1,2 & 3), along with all common systems & accessories, spares complete in all respects as detailed in the Technical Specifications.

30 (thirty) weeks from the date of issue of award of contract through GeM Portal.

2. Erection, Testing and Commissioning of the systems unit wise 30 (thirty) days for each unit from the date of handing over of a particular unit.

7. Consignee (Storage Location address) /Engineer In-charge:

All materials shall be consigned to "The Head of Plant, Doyang Hydro Power Station, North Eastern Electric Power Corporation Limited, Dist. Wokha, Nagaland".

Copies of all the dispatch documents are to be forwarded to the following addresses: -

1. The Head of Plant, Doyang Hydro Power Station, Dist. Wokha, Nagaland
2. The Executive Director, i/c Contracts & Procurement,
NEEPCO, Brookland Compound, Lower New Colony, Shillong, Meghalaya, Pin-793003, India.
3. The Head of Finance, Doyang, Dist.Wokha, Nagaland.

8. Payment Terms:

a. For Supplies:

(i) 10% (ten percent) of the total Ex Works price 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, as per the Proforma of Bank Guarantee (enclosed), with validity period up to 90 (ninety) days after the scheduled date of successful completion, which will be subject to fulfilment of the following conditions.

(a) Unconditional acceptance of the LOI, Detailed Order.
(b) Submission of Contract Performance Bank Guarantee and acceptance thereof.
(c) Submission of bar chart 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 the 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. Moreover, all the Bank Guarantees, except the 1st (First) Bank Guarantee shall be accepted by the site Engineer-in-Charge.

(ii) 65% (sixty-five percent) of Ex Works Price along with all applicable taxes and duties shall be paid on despatch and production of the following documents 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) Despatch clearance.
(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%.

(ii) 15% (Fifteen percent) of Ex-Works Price shall be paid on receipt of materials at site in full and good condition, and duly certified by the Engineer-in-Charge.

(iii) Balance 10% (Ten Percent) of the total Ex-Works Price shall be paid after Final Acceptance of the individual unit after erection testing & commissioning. However, balance 10% (Ten Percent) of the total Ex-Works Price in respect of the common systems shall be paid after Final Acceptance of the last unit. However, in case of any delay (for reasons not attributable to contractor) in Final Acceptance after erection, testing and commissioning, and on written request by the Contractor, this balance 10% (Ten percent) amount shall be released against submission of Bank Guarantee for equivalent amount and the BG to be kept valid till Final Acceptance of the 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.

If the Contractor fails to complete the supply within stipulated period as per approved schedule, the Purchaser reserve the right to 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, Storage & Handling at Site, including Insurance towards Storage.

Inland Transportation and inland Insurance charges shall be paid to the Contractor pro-rata to the value of the equipment received at site and on production of Invoices by the Contractor. However, where equipment-wise inland transportation charges have been called for in the bid proposal sheet and have been furnished by the Contractor, the payment of inland transportation charges shall be made after receipt of equipment at site, based on the charges thus identified by the Contractor in his proposal and incorporated. 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 evidence.

(c) Dismantling of existing panels, Erection, Testing and Commissioning:

The charges for dismantling, Erection, Testing and Commissioning, including taxes and duties thereon, shall be paid 100% unit wise after successful erection, testing, commissioning of each Unit.

9. Paying Authority:

The Head of Finance, Doyang Hydro Power Station, North Eastern Electric Power Corporation Limited, Wokha District,

Nagaland.

10. Guarantee/Warranty:

This shall be as per Cl.No.28, Sec-IIIA of the bid document.

11. Penalty/Liquidated Damages:

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: -

i. Reduce the contract price by ½% (half percent) per week or part thereof of delay in completion time subject to a maximum of 10% of the contract price.

ii. Execute or authorize the incomplete/unfinished work from elsewhere departmentally or through any other Agency 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 canceling the Contract in respect of work not yet due for execution.

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 Purchaser may ignore the rates quoted by him for respective work even though the lowest for executing through other agency.

iv. Where action is taken under Sub-clause (ii) or (iii) 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

12. 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 Meghalaya High Court, Shillong.

13. Other Terms & Conditions:

All other terms shall be as per the bid document, subsequent amendments and clarifications if any.

14. Attachment:

GEM Contract along with Price Break-Up.

Thanking you,

Yours faithfully,

(Signature)

09.24

Name : (Nanda Basumatary)
Designation : Executive Director, Contracts & Procurement

Mobile No :
Email ID : contracts@neepco.co.in

Executive Director (Tech.)
प्रभारी ठेका व प्रापण
Contracts & Procurement
नेपको लि., शिलांग 3
NEEPCO Ltd., Shillong-3

North Eastern Electric Power Corporation Limited
Office of the Executive Director(Contracts and Procurement)
Brookland Compound, Lower New Colony
Shilong-793003, Meghalaya, India
Tel. No. 0364-2227784;E-Mail: contract@neepco.co.in

Material and Service Details

Line Item	Material/Service Code	Material/Service Des.	Qty.	UOM	Plant
10			1.000	SET	DHEP
20.10	20000136	SERVICE LONG TEXT: Installation and Commissioning of Plant and Machinery	1.000	NO	DHEP

अनुबंध | Contract

GeM e-Marketplace

अनुबंध संख्यांक | Contract No: GEMC-511687762995666
अनुबंध तिथि | Generated Date : 11-Sep-2024
बोली/आरए/पीबीपी संख्या | Bid/RA/PBP No.: GEM/2024/B/4837335

संगठन विवरण | Organisation Details

प्रकार | Type :	Central PSU
मंत्रालय | Ministry :	Ministry of Power
विभाग | Department :	Hydro Power
संगठन का नाम | Organisation Name :	North Eastern Electric Power Corporation Limited
कार्यालय क्षेत्र | Office Zone:	Contracts and Procurement department shillong

खरीदार विवरण | Buyer Details

पद | Designation :	K K Khangwar
संपर्क नंबर | Contact No. :	364-2308501
ईमेल आईडी | Email ID :	kkkhangwar.neepco@nic.in
जीएसटीआईएन | GSTIN :	-
पता | Address :	Brookland Compound, Lower New Colony, Shillong, East Khasi hills, MEGHALAYA, 793003, India

वित्तीय स्वीकृति विवरण | Financial Approval Detail

आईएफडी सहमति | IFD Concurrence :	Yes
प्रशासनिक अनुमोदन का पदनाम | Designation of Administrative Approval :	Director Technical
वित्तीय अनुमोदन का पदनाम | Designation of Financial Approval :	CGM (F)

भुगतान प्राधिकरण विवरण | Paying Authority Details

Role:	PAO
भुगतान का तरीका | Payment Mode:	Offline
पद | Designation :	DM Finance
ईमेल आईडी | Email ID :	manishdm1.neepco@nic.in
जीएसटी आईएन | GSTIN :	-
पता | Address:	DOYANG HYDRO ELECTRIC PLANT, NEEPCO LIMITED, DISTRICT: WOKHA, STATE: NAGALAND, Wokha, NAGALAND-797108, India

विक्रेता विवरण | Seller Details

जेम विक्रेता आईडी | GeM Seller ID :	5847180000905514
कंपनी का नाम | Company Name :	ABB INDIA LIMITED
संपर्क नंबर | Contact No. :	09901400014
ईमेल आईडी | Email ID :	sridhar.thiagarajan@in.abb.com
पता | Address :	Door No 48 & 50 Prakasam Street,SICC Harmony Square,T.Nagar,T. Nagar, Chennai, TAMIL NADU 600017, -
मिल स्वामित्व | Mill Status :	True
एमएसएमई सत्यापित | MSME verified :	No
एमएसएमई पंजीकरण संख्या | MSME Registration number :	-
जीएसटीआईएन | GSTIN:	33AAACA3834B1ZF (3) , 29AAACA3834B1Z4 (M) , 24AAACA3834B1ZE (M) , 29AAACA3834B1Z4 (G) , 27AAACA3834B1Z8 (M) , (M)

*जिसके नाम के पक्ष में GST/TAX इनवॉइस पेश किया जाएगा | GST / Tax invoice to be raised in the name of - Consignee

वितरण निर्देश | Delivery Instructions : As Per Bid Condition

उत्पाद विवरण | Product Details

#	आइटम विवरण | Item Description	आइटम विवरण | Ordered Quantity	इकाई | Unit	इकाई मूल्य (INR) | Unit Price (INR)	कर विभाजन (INR) | Tax Bifurcation (INR)	कुल (INR में सभी शुल्क और कर सहित) | Price (Inclusive of all Duties and Taxes in INR)
1	उत्पाद का नाम | Product Name : SCADA System ब्रांड | Brand : ABB India Ltd ब्रांड प्रकार | Brand Type : Registered Brand कैटलॉग की स्थिति | Catalogue Status: Catalogue not verified by OEM बेचने वाला या एग्रा है | Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश | Category Name & Quadrant : SCADA System (Q3) मॉडल | Model: SWITCHGEAR TEMP. DATA AQUISITION SYSTEM एचएसएन कोड | HSN Code: HSN not specified by seller	1	set	105,385,266.11	NA	105,385,266.11
2	उत्पाद का नाम | Product Name : ICT charges for DCS Based Auto Sequencer System, Switchyard & Common Auxiliary Control System and AGC ब्रांड | Brand : NA ब्रांड प्रकार | Brand Type : Unbranded कैटलॉग की स्थिति | Catalogue Status: Catalogue not verified by OEM बेचने वाला या एग्रा है | Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश | Category Name & Quadrant : Addon Services for bid (Q3) मॉडल | Model: ICT एचएसएन कोड | HSN Code: HSN not specified by seller	1	pieces	10,699,733.89	NA	10,699,733.89
कुल ऑर्डर मूल्य | Total Order Value (in INR)					116,085,000

परिषिती विवरण | Consignee Detail

क्र.सं.|S.No	परिदिती|Consignee	वस्तु|Item	लॉट नंबर|Lot No.	मात्रा|Quantity	डिलिवरी के बाद डिलिवरी शुरू करना है|Delivery Start After	डिलिवरी पूरा करना तक करना है|Delivery To Be Completed By
1	नाम| Designation : - ईमेल आईडी|Email ID : spstion.nleepco@nic.in संपर्क|Contact : - जीएसटीआईएन|GSTIN : - पता|Address : DOYANG HYDRO ELECTRIC PLANT, NEEPCO LIMITED, DISTRICT: WOKHA, STATE: NAGALAND, Wokha, NAGALAND-797100, India	SCADA System	-	1	13-Sep-2024	02-Jul-2025

Product Specification for SCADA System

विनिर्देश|Specification	उप-विनिर्देश|Sub-Spec	मूल्य|Value
Custom Specification	Custom Specification	Yes

अपरोक्त वस्तु के लिए स्थापना कमीशनिंग और परीक्षण (आईसीटी) विवरण\|Installation Commissioning and Testing (ICT) details for the above item:

% of Product Cost Payable on Product Delivery	90 %
Min Cost Allocation for ICT as a % of product cost	10 %
Number of days allowed for ICT after site readiness communication to seller	90 Days

विक्रेता विशिष्टता दस्तावेज़\|Seller Specification Document:

1. SpecificationDocument1	mkp.gem.gov.in/catalog_data/Catalog_support_documents/41/407/582/CatalogAttrs/SpecificationDocument/2023/12/14/2023_12_14_21_43_07_temprature_monitoring_solution_2023-12-14-21-43-09_60ac24c48713375cf479641cdcb0aa33.pdf

खरीदार विशिष्टता दस्तावेज़\|Buyer Specification Document:

1. SpecificationDocument	mkp.gem.gov.in/catalog_data/catalog_support_document/buyer_documents/502232/54/78/703/CatalogAttrs/SpecificationDocument/2024/4/4/bidder_2024-04-04-11-11-43_2d7dcc0d0881d821229c4c9e625a5690.pdf

शुद्धिपत्र\|Corrigendum

1. वैध बढ़ाया गया\|Extended Upto : 2024-05-16 12:00:00
2. GeM-Bidding-Corr-6285817-3.pdf यहां क्लिक करें\|click here
3. GeM-Bidding-Corr-6285817-4.pdf यहां क्लिक करें\|click here
4. वैध बढ़ाया गया\|Extended Upto : 2024-05-24 12:00:00
5. GeM-Bidding-Corr-6285817-7.pdf यहां क्लिक करें\|click here
6. वैध बढ़ाया गया\|Extended Upto : 2024-06-07 12:00:00
7. GeM-Bidding-Corr-6285817-10.pdf यहां क्लिक करें\|click here
8. वैध बढ़ाया गया\|Extended Upto : 2024-06-17 12:00:00
9. वैध बढ़ाया गया\|Extended Upto : 2024-06-20 12:00:00
10. GeM-Bidding-Corr-6285817-15.pdf यहां क्लिक करें\|click here
11. वैध बढ़ाया गया\|Extended Upto : 2024-07-04 12:00:00

ईपीबीजी विवरण | ePBG Detail

सलाहकार बैंक | Advisory Bank :	State Bank of India
ईपीबीजी प्रतिशत (%) | ePBG Percentage(%) :	5.00

बोली लगाने वाले को बोली के नियमों और शर्तों के अनुसार वस्तु ईपीबीजी प्रस्तुत करना होगा \| The bidder shall furnish ePBG as applicable as per bid's terms and conditions

नियम और शर्तें\|Terms and Conditions

1. General Terms and Conditions-

1.1 This contract is governed by the General 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 Bid/Reverse Auction Additional Terms and Conditions (ATC), as applicable.

2. Buyer Added Bid Specific Terms and Conditions-

2.1 Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2.2 *Buyer Added Bid Specific ATC:*
Buyer uploaded ATC document Click here to view the file.

पुर्जो / उपभोग्य वस्तुओं के लिए प्रस्तावित मूल्य|Price Offered for Spares / Consumables:

पुर्जो / उपभोग्य वस्तुओं के दस्तावेज लिंक के लिए प्रस्तावित मूल्य|Price Offered for Spares / Consumables Document link

नोट: यह सिस्टम जनरेटेड फाइल है। कोई हस्ताक्षर की आवश्यकता नहीं है। इस दस्तावेज का प्रिंट आउट भुगतान/लेनदेन उद्देश्य के लिए मान्य नहीं है।

Note: This is system generated file. No signature is required. Print out of this document is not valid for payment/ transaction purpose.

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SECTION-VII: Break – Up of Price Schedule

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PRICE SCHEDULES

PRICE SCHEDULE-A (Supply)

Sl No	Description	Qty	Total Basic Price (Ex-Works) exclusive of Taxes & Duties in INR	% of Taxes & Duties	Amount on which Taxes & Duties applicable (in INR)	Amount of Taxes Duties in INR	Total Price inclusive of Taxes & Duties in INR
a	b	c	d	e	f	g=(e x f)/100	h=d+g
1	Price for Design, Engineering, Manufacturing, Quality assurance, quality control, shop assembly, Supply of New DCS with open protocol (61850) based Auto Sequencer & Common Plant Auxiliary Control System, AGC System, Instruments, Cables, Spares etc., for NEEPCO Doyang Hydro Power Station 3x25 MW as per scope of supply mentioned in the Technical Specification.	1 LOT	89,309,547.56	18%	89,309,547.56	16,075,719.56	105,385,266.11
	TOTAL		One Hundred and Five Million, Three Hundred and Eighty Five thousand Two Hundred Sixty Six and paise Eleven only				

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PRICE SCHEDULE-B (Freight & Insurance)

Sl No.	Description	Qty	Total Basic Price (Ex-Works) exclusive of Taxes & Duties in INR	% of Taxes & Duties (IGST)	Amount on which Taxes & Duties applicable (in INR)	Amount of Taxes Duties in INR	Total Price inclusive of Taxes & Duties in INR
a	b	c	d	e	f	g=(e x f)/100	h=d+g
I	Inland Transportation including Freight and Insurance, Delivery to Project Site, Comprehensive Insurance for taking care of eventualities till Commissioning, Storage and Preservation of all Equipment till Erection, Testing and Commissioning at site		Included in Supply				
	TOTAL						

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PRICE SCHEDULE-C (Erection, Testing & Commissioning for all Units)

Sl No.	Description	Qty	Total Basic Price exclusive of Taxes & Duties in INR	% of Taxes & Duties	Amount on which Taxes & Duties applicable (in INR)	Amount of Taxes Duties in INR	Total Price inclusive of Taxes & Duties in INR
a	b	c	d	e	f	g=(e x f)/100	h=d+g
I	Price for Provision of labour, tools, plants, materials and performance of work necessary for Dismantling of existing control panels of Units and Erection, Testing & Commissioning of New DCS with open protocol (61850) based Auto Sequencer & Common Plant Auxiliary Control System, AGC System, Instruments, Cables, Spares etc for NEEPCO Doyang Hydro Station 3x25 MW as per scope of service mentioned in Technical Specifications.	1 LOT	9,067,571.09	18%	9,067,571.09	1,632,162.80	10,699,733.89
	TOTAL		Ten Million, Six Hundred and Ninety Nine Thousand, Seven Hundred and Thirty Three and paise Eighty Nine only				

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SUMMARY PRICE SCHEDULE-D

Sl.No	Description	*Total Basic Price exclusive of Taxes & Duties in INR*	Amount of Taxes & Duties in INR	Total Price inclusive of Taxes & Duties
1	PRICE SCHEDULE-A	89,309,547.55	15,075,718.56	105,385,266.11
2	PRICE SCHEDULE-B	—0.00	—0.00	—0.00
3	PRICE SCHEDULE-C	9,067,571.09	1,632,162.80	10,699,733.89
	GRAND TOTAL (Sch-A+B+C)	98,377,118.64	17,707,881.36	116,085,000.00
	TOTAL Amount in Words			

One Hundred and Sixteen Million, Eighty Five Thousand Only

North Eastern Electric Power Corporation Limited

OFFICE OF THE GENERATION & SWITCHWARD (E/M)
DOYANG HYDRO ELECTRIC PLANT, DOYANG,WOKHA
WOKHA-797100, NAGALAND, INDIA
Tel. No. ;E-Mail:

Purchase Order-3600003879/Dt:12.04.2024

To,

Vendor Name	:	BHARAT HEAVY ELECTRCIALS LTD
Vendor Code	:	100977
Address	:	BHEL BHAWAN, 3RD FLOOR,
	:	KOLKATA,- 700091 West Bengal, India
Contact No	:	3323216562
Email ID	:	,
PAN No.	:	AAACB4146P
GSTIN No.	:	19AAACB4146P1ZC

Sub:

Detail Order for Supply of cooling water pipe lines of Air coolers, Bottom Guide Bearing, Turbine Guide Bearing along with accessories for 3 x 25 MW Doyang Hydro Power Station.

Ref:

1) Your offer No. REF-PS/SSBG-KOL/SB22K0287/BPH/HDG/00301 Dt.03-10-2022
2) MoM held on 20.03.2024 between M/s NEEPCO and M/s BHEL.
3) LOI. NO: NEEPCO/DHPS/DGM(E)/HGC/2023-24/T-4/101 Date. 29.03.2024

Dear Sir/Madam,

S.No	Material Code	Material Description	Qty.	Unit	Unit Price		Total Price
10	21110013150000	PIPE-MS IS:1239 ERW HEAVY NB-150	2.000	NO	Basic Price IGST % Total	27,810.00 18.00%	55,620.00 10,012.00 65,632.00
20	21110007125000	PIPE-MS IS:1239 ERW MEDIUM NB-125	15.000	M	Basic Price IGST % Total	3,708.00 18.00%	55,620.00 10,012.00 65,632.00
30	21110007100000	MS ERW IS:1239 Pt-1 MEDIUM NB-100	45.000	M	Basic Price IGST % Total	3,708.00 18.00%	1,66,860.00 30,035.00 1,96,895.00
40	21110013080000	PIPE-MS IS:1239 ERW HEAVY NB-80	4.000	NO	Basic Price IGST % Total	27,810.00 18.00%	1,11,240.00 20,023.00 1,31,263.00
50	21110007065000	MS ERW IS:1239 Pt-1 MEDIUM NB-65	210.000	M	Basic Price IGST % Total	3,708.00 18.00%	7,78,680.00 1,40,162.00 9,18,842.00
60	21110007050000	PIPE-MS IS1239 ERW MEDIUM NB-50	60.000	M	Basic Price IGST % Total	3,708.00 18.00%	2,22,480.00 40,046.00 2,62,526.00
70	21110007032000	PIPE-MS IS:1239 ERW MEDIUM NB-32	135.000	M	Basic Price IGST % Total	3,708.00 18.00%	5,00,580.00 90,104.00 5,90,684.00
80	26521006001503	FLANGE: IS:6392 DN 150 STEEL	9.000	NO	Basic Price IGST % Total	5,660.60 18.00%	50,945.40 9,170.00 60,115.40
90	26521006001253	FLANGE: IS:6392 DN125 STEEL	24.000	NO	Basic Price IGST % Total	5,660.50 18.00%	1,35,852.00 24,453.00 1,60,305.00

S.No	Material Code	Material Description	Qty.	Unit	Unit Price		Total Price
100	26521036101003	PLATE FLANGE-RF PN1.6 IS6392 DN100 STEEL	18.000	NO	Basic Price IGST % Total	5,660.22 18.00%	1,01,883.96 18,339.00 1,20,222.96
110	26521006000803	FLANGE: IS:6392 DN 80 STEEL	36.000	NO	Basic Price IGST % Total	5,660.38 18.00%	2,03,773.68 36,679.00 2,40,452.68
120	26521006000653	FLANGE: IS:6392 DN 65 STEEL	102.000	NO	Basic Price IGST % Total	5,660.37 18.00%	5,77,357.74 1,03,924.00 6,81,281.74
130	26521036100503	PLATE FLANGE-RF PN1.6 IS:6392 DN50 STEEL	24.000	NO	Basic Price IGST % Total	5,660.37 18.00%	1,35,848.88 24,453.00 1,60,301.88
140	26521006000323	FLANGE: IS:6392 DN 32 STEEL	52.000	NO	Basic Price IGST % Total	5,660.37 18.00%	2,94,339.24 52,981.00 3,47,320.24
150	29512516151060	GATE VALVE BRONZE CLASS1 NB-65	36.000	NO	Basic Price IGST % Total	4,537.45 18.00%	1,63,348.20 29,403.00 1,92,751.20
160	29512516151030	GATE VALVE FLANGED IS:778 CLASS1 NB-32	36.000	NO	Basic Price IGST % Total	4,537.45 18.00%	1,63,348.20 29,403.00 1,92,751.20
170	26472101075920	SOCKET-REDUCING MED. IS:1239 NB150x125	12.000	NO	Basic Price IGST % Total	1,702.00 18.00%	20,424.00 3,676.00 24,100.00
180	26472101075900	SOCKET-REDUCING MEDIUM IS:1239-2 NB150x1	12.000	NO	Basic Price IGST % Total	1,702.00 18.00%	20,424.00 3,676.00 24,100.00
190	26472101062900	SOCKET-REDUCING MED. IS:1239 NB125x100	12.000	NO	Basic Price IGST % Total	1,702.00 18.00%	20,424.00 3,676.00 24,100.00
200	26472101050650	SOCKET-REDUCING MED. IS:1239 NB100x65	12.000	NO	Basic Price IGST % Total	1,702.00 18.00%	20,424.00 3,676.00 24,100.00
210	26472101040650	SOCKET-REDUCING MED. IS:1239 NB80x65	12.000	NO	Basic Price IGST % Total	1,702.00 18.00%	20,424.00 3,676.00 24,100.00
220	27127111161000	REDUCER-CONCENTRIC CS ANSI:B16.9 80x50	6.000	NO	Basic Price IGST % Total	1,702.00 18.00%	10,212.00 1,838.00 12,050.00
230	26472101032320	SOCKET-REDUCING MED. IS:1239 NB65x32	12.000	NO	Basic Price IGST % Total	1,702.00 18.00%	20,424.00 3,676.00 24,100.00
240	26472101025320	SOCKET-REDUCING MED. IS:1239 NB50x32	12.000	NO	Basic Price IGST % Total	1,702.00 18.00%	20,424.00 3,676.00 24,100.00
250	26472101032500	SOCKET-REDUCING MED. IS:1239 NB65x50	12.000	NO	Basic Price IGST % Total	1,702.00 18.00%	20,424.00 3,676.00 24,100.00
260	47028512160709	HEX HD SCREW STEEL M16x70	90.000	NO	Basic Price IGST % Total	175.00 18.00%	15,750.00 2,835.00 18,585.00
270	45010508160000	HEX NUT IS:1364-3 (style-1) P8 STEEL M16	90.000	NO	Basic Price IGST % Total	175.00 18.00%	15,750.00 2,835.00 18,585.00
280	49070600160000	SPRING LOCK WASHER RECTANGULAR	90.000	NO	Basic Price IGST % Total	75.00 18.00%	6,750.00 1,215.00 7,965.00
290	47028512200809	HEX HD SCREW IS:1364 PC 8.8 STEEL M20x80	57.000	NO	Basic Price IGST % Total	175.00 18.00%	9,975.00 1,796.00 11,771.00

S.No	Material Code	Material Description	Qty.	Unit	Unit Price		Total Price
300	46010508160000	HEX NUT IS:1364-3 (style-1) P8 STEEL M16	30.000	NO	Basic Price IGST % Total	100.00 18.00%	3,000.00 540.00 3,540.00
310	49070500200000	SPRING LOCK WASHER IS:3063 M20	30.000	NO	Basic Price IGST % Total	75.00 18.00%	2,250.00 405.00 2,655.00
320	26416000501000	ELBOW-EQUAL MEDIUM NB 100 NR	18.000	NO	Basic Price IGST % Total	1,041.68 18.00%	18,750.24 3,375.00 22,125.24
330	26416000500800	ELBOW-EQUAL MEDIUM NB 80 NR	18.000	NO	Basic Price IGST % Total	1,041.67 18.00%	18,750.06 3,375.00 22,125.06
340	26416000500650	ELBOW-EQUAL MEDIUM NB 65 NR	78.000	NO	Basic Price IGST % Total	1,041.67 18.00%	81,250.26 14,625.00 95,875.26
350	26416000500320	ELBOW-EQUAL FEMALE THREAD MEDIUM NB 32	78.000	NO	Basic Price IGST % Total	1,041.66 18.00%	81,249.48 14,625.00 95,874.48
360	26475001001500	TEE MEDIUM IS:1239-2 NB 150	12.000	NO	Basic Price IGST % Total	1,587.32 18.00%	19,047.84 3,429.00 22,476.84
370	26476001062650	TEE-REDUCING ON TBRANCH IS:1239 NB125x65	12.000	NO	Basic Price IGST % Total	1,587.30 18.00%	19,047.60 3,429.00 22,476.60
380	26476001050650	TEE-REDUCING ON BRANCH IS:1239 NB100x65	18.000	NO	Basic Price IGST % Total	1,587.30 18.00%	28,571.40 5,143.00 33,714.40
390	26475001000650	TEE MEDIUM IS:1239-2 NB 65	18.000	NO	Basic Price IGST % Total	1,587.30 18.00%	28,571.40 5,143.00 33,714.40
400	26475001000800	TEE MEDIUM IS:1239-2 NB 80	12.000	NO	Basic Price IGST % Total	1,587.30 18.00%	19,047.60 3,429.00 22,476.60
410	26476001032320	TEE-REDUCING ON BRANCH IS:1239 NB65x32	18.000	NO	Basic Price IGST % Total	1,587.30 18.00%	28,571.40 5,143.00 33,714.40
420	26476001025320	TEE-REDUCING ON BRANCH IS:1239 NB50x32	18.000	NO	Basic Price IGST % Total	1,587.30 18.00%	28,571.40 5,143.00 33,714.40
430	26475001000320	TEE MEDIUM IS:1239-2 NB 32	18.000	NO	Basic Price IGST % Total	1,587.30 18.00%	28,571.40 5,143.00 33,714.40
440	21110007065000	MS ERW IS:1239 Pt-1 MEDIUM NB-65	30.000	M	Basic Price IGST % Total	1,628.97 18.00%	48,869.10 8,796.00 57,665.10
450	21110007050000	PIPE-MS IS1239 ERW MEDIUM NB-50	18.000	M	Basic Price IGST % Total	1,628.96 18.00%	29,321.28 5,278.00 34,599.28
460	21110007040000	PIPE-MS IS1239 ERW MEDIUM NB-40	15.000	M	Basic Price IGST % Total	1,628.95 18.00%	24,434.25 4,398.00 28,832.25
470	21110007025000	PIPE-MS IS1239 ERW MEDIUM NB-25	15.000	M	Basic Price IGST % Total	1,628.95 18.00%	24,434.25 4,398.00 28,832.25
480	21110007020000	PIPE-MS IS:1239 ERW MEDIUM NB-20	45.000	M	Basic Price IGST % Total	1,628.95 18.00%	73,302.75 13,195.00 86,497.75
490	21110007015000	PIPE-MS IS1239 ERW MEDIUM NB-15	24.000	M	Basic Price IGST % Total	1,628.95 18.00%	39,094.80 7,037.00 46,131.80

S.No	Material Code	Material Description	Qty.	Unit	Unit Price		Total Price
500	21110007010000	PIPE-MS IS:1239 MEDIUM NB-10	30.000	M	Basic Price IGST % Total	1,628.95 18.00%	48,868.50 8,796.00 57,664.50
510	21110007009000	PIPE-MS IS:1239 MEDIUM NB-8	15.000	M	Basic Price IGST % Total	1,628.95 18.00%	24,434.25 4,398.00 28,832.25
520	26428001020100	HEXAGON BUSH IS:1239-2 NB40x10	15.000	NO	Basic Price IGST % Total	5,590.00 18.00%	83,850.00 15,093.00 98,943.00
530	26428001020250	HEXAGON BUSH IS:1239-2 NB40x25	3.000	NO	Basic Price IGST % Total	5,428.00 18.00%	16,284.00 2,931.00 19,215.00
540	26428001012150	HEXAGON BUSH IS:1239-2 NB25x15	9.000	NO	Basic Price IGST % Total	5,290.00 18.00%	47,610.00 8,570.00 56,180.00
550	26472101012150	SOCKET-REDUCING MEDIUM IS:1239-2 NB25x15	3.000	NO	Basic Price IGST % Total	2,130.00 18.00%	6,390.00 1,150.00 7,540.00
560	26472101010080	SOCKET-REDUCING MEDIUM IS:1239-2 NB20x8	3.000	NO	Basic Price IGST % Total	2,125.00 18.00%	6,375.00 1,148.00 7,523.00
570	26472101010100	SOCKET-REDUCING MEDIUM IS:1239-2 NB20x10	12.000	NO	Basic Price IGST % Total	2,125.00 18.00%	25,500.00 4,590.00 30,090.00
580	63083031507100	INDICATING FLOW RELAY NB65 ROTARY	3.000	NO	Basic Price IGST % Total	2,38,541.04 18.00%	7,15,623.12 1,28,812.00 8,44,435.12
590	63030030445080	LEVEL INDICATOR CUM CONTROLLER 80-260VAC	3.000	NO	Basic Price IGST % Total	2,55,579.88 18.00%	7,66,739.58 1,38,013.00 9,04,752.58
600	63083031505500	INDICATING FLOW RELAY NB50 100LPM	3.000	NO	Basic Price IGST % Total	85,193.40 18.00%	2,55,580.20 46,004.00 3,01,584.20
610	63083031504400	INDICATING FLOW RELAY NB40 100LPM	3.000	NO	Basic Price IGST % Total	85,193.40 18.00%	2,55,580.20 46,004.00 3,01,584.20
620	63083031506800	INDICATING FLOW RELAY NB65 100LPM	15.000	NO	Basic Price IGST % Total	20,446.36 18.00%	3,06,695.40 55,205.00 3,61,900.40
630	28981018025106	UNION A106 Gr.B NB-25 3-WAY	18.000	NO	Basic Price IGST % Total	49,435.01 18.00%	8,89,830.18 1,60,169.00 10,49,999.18
640	28981018040006	UNION A106 Gr.B NB-40 3-WAY	60.000	NO	Basic Price IGST % Total	8,550.00 18.00%	5,13,000.00 92,340.00 6,05,340.00
650	28973316020100	STUD COUPLING-MALE A106 Gr.B 3/4"	27.000	NO	Basic Price IGST % Total	261.04 18.00%	7,048.08 1,269.00 8,317.08
660	28973316010100	STUD COUPLING-MALE A106 Gr.B 3/8"	15.000	NO	Basic Price IGST % Total	260.00 18.00%	3,900.00 702.00 4,602.00
670	28973316040100	STUD COUPLING-MALE A106 Gr.B 1.1/2"	12.000	NO	Basic Price IGST % Total	260.00 18.00%	3,120.00 562.00 3,682.00
680	28973316015100	STUD COUPLING-MALE A106 Gr.B 1/2"	21.000	NO	Basic Price IGST % Total	260.00 18.00%	5,460.00 983.00 6,443.00
690	29512813152020	GLOBE VLV FLGD IS:778 BRONZE CL-2 NB20	36.000	NO	Basic Price IGST % Total	3,900.03 18.00%	1,40,401.08 25,272.00 1,65,673.08

S.No	Material Code	Material Description	Qty.	Unit	Unit Price		Total Price
700	29512813152040	GLOBE VLV FLGD IS:778 BRONZE CL-2 NB40	9.000	NO	Basic Price IGST % Total	3,962.00 18.00%	35,658.00 6,418.00 42,076.00
710	29512813152010	GLOBE VLV FLGD IS:778 BRONZE CL-2 NB10	3.000	NO	Basic Price IGST % Total	3,845.00 18.00%	11,535.00 2,076.00 13,611.00
720	28972716025100	STRAIGHT COUPLING A106 Gr.B NB-25	27.000	NO	Basic Price IGST % Total	4,500.00 18.00%	1,21,500.00 21,870.00 1,43,370.00
730	28972716010000	STRAIGHT COUPLING A106 Gr.B NB-10	15.000	NO	Basic Price IGST % Total	4,132.00 18.00%	61,980.00 11,156.00 73,136.00
740	28972716015000	STRAIGHT COUPLING A106 Gr.B NB-15	18.000	NO	Basic Price IGST % Total	4,250.00 18.00%	76,500.00 13,770.00 90,270.00
750	28972716040000	STRAIGHT COUPLING A106 Gr.B NB-40	6.000	NO	Basic Price IGST % Total	4,674.34 18.00%	28,046.04 5,048.00 33,094.04
760	75130010060110	PRESSURE GUAGE, RANGE 0-16KG/SQ CM	12.000	NO	Basic Price IGST % Total	8,519.31 18.00%	1,02,231.72 18,402.00 1,20,633.72
770	75130010060100	PRESSURE GUAGE SHUT OFF VALVE 3/8 FEMALE	6.000	NO	Basic Price IGST % Total	29,817.60 18.00%	1,78,905.60 32,203.00 2,11,108.60
780	75130010012030	DIFFERENTIAL PRESSURE SWITCH 3/8 MALE	3.000	NO	Basic Price IGST % Total	8,519.38 18.00%	25,558.14 4,600.00 30,158.14
790	75130010012040	DIFF PRESSURE SWITCH, RT-116. 3/8 BSP	6.000	NO	Basic Price IGST % Total	4,259.70 18.00%	25,558.20 4,600.00 30,158.20
800	28999001050040	ADAPTER ASTM:A106 Gr.B NB40	450.000	NO	Basic Price IGST % Total	850.00 18.00%	3,82,500.00 68,850.00 4,51,350.00
810	75130010092010	Y FILTER 40NB 1 1/2" BSP FEMALE STRAINER	429.000	NO	Basic Price IGST % Total	250.00 18.00%	1,07,250.00 19,305.00 1,26,555.00
820	75130010008130	CAF JOINT SHEET, 1.5 TK X 1500 X 1500	9.000	PC	Basic Price IGST % Total	3,500.00 18.00%	31,500.00 5,670.00 37,170.00
830	45010506160000	HEX NUT IS:1364-3 (style-1) P8 STEEL M16	12.000	NO	Basic Price IGST % Total	75.00 18.00%	900.00 162.00 1,062.00
840	40512312160659	HEX HD. BOLT IS:1364 PC8.8 M16x65	3.000	NO	Basic Price IGST % Total	175.00 18.00%	525.00 95.00 620.00
850	28981016020006	UNION A106 Gr.B NB-20 3-WAY	3.000	NO	Basic Price IGST % Total	4,352.00 18.00%	13,056.00 2,350.00 15,406.00
860	29599050001005	NEEDLE VALVE 3/8" BRONZE/GM	6.000	NO	Basic Price IGST % Total	4,096.02 18.00%	24,576.12 4,424.00 29,000.12
870	29512531040050	GATE VALVE FLGD IS:10611 CS 150mm	3.000	NO	Basic Price IGST % Total	1,54,716.16 18.00%	4,64,148.48 83,547.00 5,47,695.48
880	75130010000060	40 NB SERVO OPERATED VALVE	3.000	NO	Basic Price IGST % Total	1,54,716.16 18.00%	4,64,148.48 83,547.00 5,47,695.48
890	26521036100503	PLATE FLANGE-RF PN1.6 IS:6392 DN50 STEEL	6.000	NO	Basic Price IGST % Total	6,000.00 18.00%	36,000.00 6,480.00 42,480.00

S.No	Material Code	Material Description	Qty.	Unit	Unit Price		Total Price
900	26521007000653	BLIND FLANGE PN16 IS:6392 DN 65 STEEL	3.000	NO	Basic Price IGST % Total	6,500.00 18.00%	19,500.00 3,510.00 23,010.00
910	26521007000403	BLIND FLANGE PN16 IS:6392 DN 40 STEEL	3.000	NO	Basic Price IGST % Total	5,442.50 18.00%	16,327.50 2,939.00 19,266.50
920	26521007000253	BLIND FLANGE PN16 IS:6392 DN 25 STEEL	6.000	NO	Basic Price IGST % Total	5,442.50 18.00%	32,655.00 5,878.00 38,533.00
930	26521007000203	BLIND FLANGE PN16 IS:6392 DN 20 STEEL	3.000	NO	Basic Price IGST % Total	5,442.50 18.00%	16,327.50 2,939.00 19,266.50
940	26521007000153	BLIND FLANGE PN16 IS:6392 DN 15 STEEL	30.000	NO	Basic Price IGST % Total	5,442.50 18.00%	1,63,275.00 29,390.00 1,92,665.00
950	40512312200659	HEX HD. BOLT IS:1364 PC8.8 M20x65	30.000	NO	Basic Price IGST % Total	175.00 18.00%	5,250.00 945.00 6,195.00
960	45010508200000	HEXAGON NUT IS:1364-3 P8 STEEL M20	12.000	NO	Basic Price IGST % Total	75.48 18.00%	905.76 163.00 1,068.76
970	40512300040409	HEX HD. BOLT IS:1364 M4x40	15.000	NO	Basic Price IGST % Total	175.00 18.00%	2,625.00 473.00 3,098.00
980	28999060060065	PIPE CLIP-STEEL NB-65	36.000	NO	Basic Price IGST % Total	4,974.81 18.00%	1,79,093.16 32,237.00 2,11,330.16
990	28999060060050	PIPE CLIP-STEEL NB-50	54.000	NO	Basic Price IGST % Total	4,974.76 18.00%	2,68,637.04 48,355.00 3,16,992.04
1000	28999060060040	PIPE CLIP-STEEL NB-40	15.000	NO	Basic Price IGST % Total	4,974.75 18.00%	74,621.25 13,432.00 88,053.25
1010	28999060060020	PIPE CLIP-STEEL NB-20	60.000	NO	Basic Price IGST % Total	4,974.74 18.00%	2,98,484.40 53,727.00 3,52,211.40
1020	28999060060010	PIPE CLIP-STEEL NB-10	15.000	NO	Basic Price IGST % Total	4,974.72 18.00%	74,620.80 13,432.00 88,052.80
1030	28999060081065	PIPE SUPPORT STEEL FOR NB-65 PIPE	36.000	NO	Basic Price IGST % Total	3,987.84 18.00%	1,43,562.24 25,841.00 1,69,403.24
1040	28999060081050	PIPE SUPPORT STEEL FOR NB-50 PIPE	54.000	NO	Basic Price IGST % Total	3,987.85 18.00%	2,15,343.90 38,762.00 2,54,105.90
1050	28999060081040	PIPE SUPPORT STEEL FOR NB-40 PIPE	15.000	NO	Basic Price IGST % Total	3,987.87 18.00%	59,818.05 10,767.00 70,585.05
1060	28999060081020	PIPE SUPPORT STEEL FOR NB-20 PIPE	60.000	NO	Basic Price IGST % Total	3,987.81 18.00%	2,39,268.60 43,068.00 2,82,336.60
1070	28999060081010	PIPE SUPPORT STEEL FOR NB-10 PIPE	60.000	NO	Basic Price IGST % Total	3,987.61 18.00%	2,39,256.60 43,066.00 2,82,322.60
1080	28999075757080	SUPPORT BLOCK-STEEL NB-80	15.000	NO	Basic Price IGST % Total	2,220.63 18.00%	33,309.45 5,996.00 39,305.45
1090	28999075757065	SUPPORT BLOCK-STEEL NB-65	18.000	NO	Basic Price IGST % Total	2,220.63 18.00%	39,971.34 7,195.00 47,166.34

S.No	Material Code	Material Description	Qty.	Unit	Unit Price		Total Price
1100	28999075757050	SUPPORT BLOCK-STEEL NB-50	36.000	NO	Basic Price IGST % Total	2,220.63 18.00%	79,942.68 14,390.00 94,332.68
1110	28999075757040	SUPPORT BLOCK-STEEL NB-40	15.000	NO	Basic Price IGST % Total	2,220.63 18.00%	33,309.45 5,996.00 39,305.45
1120	28999075757020	SUPPORT BLOCK-STEEL NB-20	42.000	NO	Basic Price IGST % Total	2,220.63 18.00%	93,266.46 16,788.00 1,10,054.46
1130	28999075757010	SUPPORT BLOCK-STEEL NB-10	150.000	NO	Basic Price IGST % Total	2,220.63 18.00%	3,33,094.50 59,957.00 3,93,051.50
1140	47028512060129	HEX HD SCREW IS:1364 PC 8.8 STEEL M6x12	72.000	NO	Basic Price IGST % Total	175.03 18.00%	12,602.16 2,268.00 14,870.16
1150	47028512120609	HEX HD SCREW IS:1364 PC 8.8 STEEL M12x60	138.000	NO	Basic Price IGST % Total	175.02 18.00%	24,152.76 4,348.00 28,500.76
1160	47028512120209	HEX HD SCREW IS:1364 PC 8.8 STEEL M12x20	12.000	NO	Basic Price IGST % Total	175.02 18.00%	2,100.24 378.00 2,478.24
					Total Basic Price Total IGST % Total PO Val.		1,36,00,000.02 24,47,999.00 1,60,47,999.02

ONE CRORE SIXTY LAKH FORTY SEVEN THOUSAND NINE HUNDRED NINETY NINE Rupees TWO Paise Only

TERMS AND CONDITIONS

1. Scope:

Scope of contract: The Scope of supply shall be as per "Schedule of Item and Price give in this order.

2. Value:

Contract Value: The total Contract Value for the entire scope of Supply shall be Rs. 1,36,00,000.00 (Rupees One Crore Thirty Six Lakh) only inclusive of Freight and Transit Insurance but exclusive of GST and other applicable taxes.

3. Price Basis:

F.O.R DHPS Doyang. Nagaland

4. Taxes:

As per applicable taxes.

5. Contract Performance Guarantee/Security Deposit:

6. Delivery Period/ Completion Time/ Contract Period:

Delivery period: The entire Scope of supply under this contract shall be completed within 12 (twelve) months from the date of issue of LOI or from the date of receipt of 10 % advance whichever is later. However, as the spares are urgently required and as time is the essence, you are requested to take necessary action for supply of the material at the earliest possible. Invoice for 10 % advance is to be submitted to the consignee for release of payment.

7. Consignee (Storage Location address) /Engineer In-charge:

Consignee:- Deputy General Manager (E/M),
Generator & Switch Yard Div.,
DHEP, NEEPCO Ltd,
Doyang, Wokha, Nagaland- 797100
Contact No: 9366114139, 9862769848
email: dhesym_dhep@rediffmail.com

8. Payment Terms:

Payment Terms:

(a) 10% of Purchase Order value with TCS is to be paid as interest free advance along with Detail Purchase Order.

(b) Remaining 90% payment along with applicable GST & TCS after receipt of material in full and good condition at site with provision of part payment for part dispatches.
(c) Payment will be made through RTGs/NEFT. Bank charges, if any, for the payment will be on your account. The following information may be furnished for receiving payment through e-payment system:
1. Name of Beneficiaries 2. Name of Bank
3. Branch of Bank 4. IFSC Code of the Branch
5. Account Number 6. City/Town
7. Fax and Telephone Numbers 8. e-mail address.

9. Paying Authority:
Paying Authority:- The Deputy Manager (F&A), DHEP, NEEPCO Ltd, Doyang, Nagaland.

10. Guarantee/Warranty:
WARRANTY: Under warranty condition, or liability implied by law BHEL#s liability in respect of any defect in of failure of goods supplied , or for any loss, injury ,or damaged attributable thereto , is limited to making good by replacement or repair defects which under proper use , appear therein and arise solely from faulty design , materials or workmanship within a period of twelve calendar months after the original goods shall have been first dispatched, at the termination of which period all liability on your part ceases , provided always that such defective parts are promptly returned free to you , unless otherwise agreed.
BHEL#s obligation under this clause shall cease forthwith.
a. If the purchaser or user has not operated the equipment according to generally approved industry practices and in accordance with the conditions of operation specified.
b. If the purchaser have not notified the contractor in writing as soon as any defect occurred.
c. If the equipment is spoiled or becomes defective due to purchaser#s fault or due to fire or other accidents or damage from other equipment of the purchaser.

11. Penalty/Liquidated Damages:
FORCE MAJEURE: You shall not be liable for loss or damage resulting from any delay or failure to make shipment within time specified for all or any part of the equipment due to Acts of God, war declared, or undeclared , acts of public Enemy , riots civil commotion, invasion, insurrection , sabotage, acts or restraint of Governments federal, state or municipal action or regulation, delay in release of foreign exchange and for import license by Government embargoes, strikes or other labour trouble, fire, flood , hurricanes , accidents , epidemics, quarantine restrictions, delays or destruction#s or sinking of carriers, inability to obtain dock, lighter age or loading facilities , damage to or destruction in whole or in part of the equipment or manufacturing plant lock of , or inability to obtain raw materials, labour , fuel or supplies for any reason including defaults of suppliers or any failure on the part of the purchaser or his representative to approve or comment on drawing or other technical document within the period of one specified by us or any other causes contingencies or circumstances not subject to our control of a similar or dissimilar nature which prevents the manufacture or delivery of the equipment . Any such causes or delay even though existing on the date of contract or on the date of start of manufacture , shall extend the time of our performance by the length of delays occasioned thereby , including delay reasonable incident to the resumption of normal production even though such case may occur after performance of our obligation has been delayed for the other cause.

12. Jurisdiction of Court:

13. Other Terms & Conditions:
Packing, Marking and Forwarding: The Contractor shall properly paint, pack and crate the equipment/materials as per prescribed standards in force to protect them from any loss, damage, deterioration, etc. during transportation to site and storage at site till installation. The contractor shall notify the Purchaser of the date of dispatch of every consignment from his works and the expected date of arrival at destination for the information of the Purchaser.
Each bundle or package shall have the following markings on it: -
i) The name and address of the Consignee
ii) Destination
iii) Relevant marks, reference numbers etc. for identification
iv) Directions for handling the materials
v) Each package shall also be accompanied with detailed packing lists to facilitate checking up of the contents at the destination.

DESPATCH: The materials shall be dispatched by Road on " FREIGHT PRE-PAID" basis through BHEL approved Transport carriers only upto the Doyang Power Station, Doyang, Wokha-Dist. Nagaland. PIN: 797100/Dimapur, Nagaland.

TRANSIT INSURANCE: Transit Insurance of the material shall be under the scope of BHEL.

REPLACEMENT OF GOODS BROKEN OR DAMAGED IN TRANSIT : In the event if goods broken or damaged in transit then

NEEPCO will have to recover such losses from the insurance company. The payment of damaged or broken goods not be withheld till the placements /rectification is made. It should be released as per your payment terms only.
Claim if any on account of BHEL must be within 15 days from the date of receipt of the consignment , else the responsibility on the part of BHEL ceases.
Damaged or broken goods shall be replaced/ rectified by BHEL at an extra cost and against a separate purchase order only.
Return of Goods mutually agreed between BHEL and NEEPCO for replacement/rectification by BHEL shall have to be booked to the consignor on Freight Prepaid and Door delivery basis together with the Original Transporter Copy of Tax Invoice of the earlier suppliers for availing reversal of the taxes paid. The Return of goods shall be done with the consent of BHEL and within 45 days from the date of receipt of the consignment. BHEL shall not own the responsibility in the event of any delay in this regard.

GST: @18% or applicable GST will be paid extra as per actual at the time of delivery.
Our GST Registration No. is: 13AACN9991J1Z1.

MATERIAL RECEIPT, ACCOUNTING & STORAGE: NEEPCO shall raise the documents towards Materials Receipt, Inspection & Accounting within a period of 15 days from the date of receipt of each consignment. BHEL shall not own the responsibility on the delayed (Beyond 15 days after the receipt of Goods) accounting of the consignments. The consignments booked under Transporters Go-down Delivery basis shall have to be collected within 3 days from the date of receiving the information from the Transporter about the arrival of the consignment. No claim on account of shortages, damages & loss of materials shall be made on BHEL, However, BHEL will ensure handing over of the goods in good condition with proper packing and marking at the time of booking.

STANDARD QUALITY PROCEDURES: The BHEL shall follow their own standard quality procedures and Technical Delivery Conditions wherever available during the Manufacturing, Inspection and Testing of products. The same procedure shall be followed by the NEEPCO# s inspecting Authority at BHEL#s works or vendor works and then issue the required clearance for dispatch as and when required without insisting on for a fresh Quality procedure approved by the NEEPCO.

Materials and Workmanship/Standards: The Contractor shall have to guarantee that the equipment and materials shall be new and of best quality workmanship and the materials shall have no defect in design and or manufacture, shall meet the requirements of the specification and shall be, in all respects, suited for purposes intended. The Contractor shall remedy, without any cost of the Purchaser, all defects in design, materials and workmanship which may develop under normal use and which have been called to the attention of the Contractor prior to the expiry of the warranty period.

FITMENT CERTIFICATE: It must be guaranteed that the spares supplied shall fit properly on the existing equipment without any modification for which same are being purchased. A certificate in this respect is to be given at the time of delivery of materials.

E-way Bill: Any road license and / or e-way bill, if necessary, shall be arranged by the Contractor at his own cost. However, if any documentary assistance is necessary to facilitate the transportation, this will be supplied by the Purchaser wherever possible.

All other terms and conditions shall be as per your quotation unless further amendment is made for facilitating delivery of the materials.

14. Attachment:

Thanking you,

Yours faithfully,

(Signature)

Name : S. Patton
Designation :Deputy General Manager (HGC)
Mobile No
Email ID :hgc_dhep@rediffmail.com

"AS THIS IS COMPUTER GENERATED, NO SIGNATURE IS REQUIRED"

North Eastern Electric Power Corporation Limited
OFFICE OF THE GENERATION & SWITCHWARD (E/M)
DOYANG HYDRO ELECTRIC PLANT, DOYANG,WOKHA
WOKHA-797100, NAGALAND, INDIA
Tel. No. ;E-Mail:

Material and Consignee Details

Line Item	Material Code	Material Long Text	Qty.	UOM	Plant
10	21110013150000	PIPE-MS IS:1239 ERW HEAVY NB-150	2.000	NO	DHEP
20	21110007125000	PIPE-MS IS:1239 ERW MEDIUM NB-125	15.000	M	DHEP
30	21110007100000	MS ERW IS:1239 PI-1 MEDIUM NB-100	45.000	M	DHEP
40	21110013080000	PIPE-MS IS:1239 ERW HEAVY NB-80	4.000	NO	DHEP
50	21110007065000	MS ERW IS:1239 PI-1 MEDIUM NB-65	210.000	M	DHEP
60	21110007050000	PIPE-MS IS1239 ERW MEDIUM NB-50	60.000	M	DHEP
70	21110007032000	PIPE-MS IS:1239 ERW MEDIUM NB-32	135.000	M	DHEP
80	26521006001503	FLANGE: IS:6392 DN 150 STEEL	9.000	NO	DHEP
90	26521006001253	FLANGE: IS:6392 DN125 STEEL	24.000	NO	DHEP
100	26521036101003	100NB Plate Flange Thickness-20 mm, RF D-158 mm, No. of Holes-8, Hole Dia-18 mm, PCD-180 mm IS: 6392. Table 17- class	18.000	NO	DHEP
110	26521006000803	FLANGE: IS:6392 DN 80 STEEL	36.000	NO	DHEP
120	26521006000653	FLANGE: IS:6392 DN 65 STEEL	102.000	NO	DHEP
130	26521036100503	50NB Plate Flange T-18 mm, RF D-102 mm, No. of Holes-4, Hole Dia18 mm, PCD-125 m m IS: 6392. Table 17- class 1.6	24.000	NO	DHEP
140	26521006000323	FLANGE: IS:6392 DN 32 STEEL	52.000	NO	DHEP
150	29512516151060	GATE VALVE BRONZE CLASS1 NB-65	36.000	NO	DHEP
160	29512516151030	GATE VALVE FLANGED RISING STEM IS:778 BRONZE CLASS1 NB-32	36.000	NO	DHEP
170	26472101075920	SOCKET-REDUCING MEDIUM IS:1239-2 NB150x125	12.000	NO	DHEP
180	26472101075900	SOCKET-REDUCING MEDIUM IS:1239-2 NB150x1	12.000	NO	DHEP
190	26472101062900	SOCKET-REDUCING MEDIUM IS:1239-2 NB125x100	12.000	NO	DHEP
200	26472101050650	SOCKET-REDUCING MEDIUM IS:1239-2 NB100x65	12.000	NO	DHEP
210	26472101040650	SOCKET-REDUCING MEDIUM IS:1239-2 NB80x65	12.000	NO	DHEP
220	27127111161000	Mild Steel Reducer Concentric 80 NB to 50 NB ANSI B16.9-1978	6.000	NO	DHEP
230	26472101032320	SOCKET-REDUCING MEDIUM IS:1239-2 NB65x32	12.000	NO	DHEP
240	26472101025320	SOCKET-REDUCING MEDIUM IS:1239-2 NB50x32	12.000	NO	DHEP
250	26472101032500	SOCKET-REDUCING MEDIUM IS:1239-2 NB65x50	12.000	NO	DHEP
260	47028512160709	HEX HD SCREW STEEL M16x70	90.000	NO	DHEP
270	45010508160000	HEX NUT IS:1364-3 (style-1) P8 STEEL M16	90.000	NO	DHEP
280	49070500160000	SPRING LOCK WASHER RECTANGULAR	90.000	NO	DHEP
290	47028512200809	HEX HD SCREW IS:1364 PC 8.8 STEEL M20x80	57.000	NO	DHEP

Line Item	Material Code	Material Long Text	Qty.	UOM	Plant
300	45010508160000	HEX NUT IS:1364-3 (style-1) P8 STEEL M16	30.000	NO	DHEP
310	49070500200000	SPRING LOCK WASHER IS:3063 M20	30.000	NO	DHEP
320	26416000501000	ELBOW-EQUAL MEDIUM NB 100 NR	18.000	NO	DHEP
330	26416000500800	ELBOW-EQUAL MEDIUM NB 80 NR	18.000	NO	DHEP
340	26416000500650	ELBOW-EQUAL MEDIUM NB 65 NR	78.000	NO	DHEP
350	26416000500320	ELBOW-EQUAL FEMALE THREAD MEDIUM NB 32	78.000	NO	DHEP
360	26475001001500	TEE MEDIUM IS:1239-2 NB 150	12.000	NO	DHEP
370	26476001062650	TEE-REDUCING ON THE BRANCH HEAVY IS:1239-2 NB-125x65	12.000	NO	DHEP
380	26476001050650	TEE-REDUCING ON THE BRANCH HEAVY IS:1239-2 NB-100x65	18.000	NO	DHEP
390	26475001000650	TEE MEDIUM IS:1239-2 NB 65	18.000	NO	DHEP
400	26475001000800	TEE MEDIUM IS:1239-2 NB 80	12.000	NO	DHEP
410	26476001032320	TEE-REDUCING ON THE BRANCH HEAVY IS:1239-2 NB65x32	18.000	NO	DHEP
420	26476001025320	TEE-REDUCING ON THE BRANCH HEAVY IS:1239-2 NB50x32	18.000	NO	DHEP
430	26475001000320	TEE MEDIUM IS:1239-2 NB 32	18.000	NO	DHEP
440	21110007065000	MS ERW IS:1239 Pt-1 MEDIUM NB-65	30.000	M	DHEP
450	21110007050000	PIPE-MS IS1239 ERW MEDIUM NB-50	18.000	M	DHEP
460	21110007040000	PIPE-MS IS1239 ERW MEDIUM NB-40	15.000	M	DHEP
470	21110007025000	PIPE-MS IS1239 ERW MEDIUM NB-25	15.000	M	DHEP
480	21110007020000	PIPE-MS IS:1239 ERW MEDIUM NB-20	45.000	M	DHEP
490	21110007015000	PIPE-MS IS1239 ERW MEDIUM NB-15	24.000	M	DHEP
500	21110007010000	PIPE-MS IS:1239 MEDIUM NB-10	30.000	M	DHEP
510	21110007008000	PIPE-MS IS:1239 MEDIUM NB-8	15.000	M	DHEP
520	26428001020100	HEXAGON BUSH IS:1239-2 NB40x10	15.000	NO	DHEP
530	26428001020250	HEXAGON BUSH IS:1239-2 NB40x25	3.000	NO	DHEP
540	26428001012150	HEXAGON BUSH IS:1239-2 NB25x15	9.000	NO	DHEP
550	26472101012150	SOCKET-REDUCING MEDIUM IS:1239-2 NB25x15	3.000	NO	DHEP
560	26472101010080	SOCKET-REDUCING MEDIUM IS:1239-2 NB20x8	3.000	NO	DHEP
570	26472101010100	SOCKET-REDUCING MEDIUM IS:1239-2 NB20x10	12.000	NO	DHEP
580	63083031507100	UTILITY INSTRUMENTS/TOOL: INDICATING FLOW RELAY NB65 ROTARY	3.000	NO	DHEP
590	63030030445080	INDICATOR: LEVEL INDICATOR LEVEL INDICATOR CUM CONTROLLER 80-260VAC	3.000	NO	DHEP
600	63083031505500	UTILITY INSTRUMENTS/TOOL: INDICATING FLOW RELAY NB50 100LPM	3.000	NO	DHEP
610	63083031504400	UTILITY INSTRUMENTS/TOOL: INDICATING FLOW RELAY NB40 100LPM	3.000	NO	DHEP
620	63083031506800	UTILITY INSTRUMENTS/TOOL: INDICATING FLOW RELAY NB65 100LPM	15.000	NO	DHEP
630	28981016025106	UNION A106 Gr.B NB-25 3-WAY	18.000	NO	DHEP
640	28981016040006	UNION A106 Gr.B NB-40 3-WAY	60.000	NO	DHEP

Line Item	Material Code	Material Long Text	Qty.	UOM	Plant
650	28973316020100	STUD COUPLING-MALE A106 Gr.B 3/4"	27.000	NO	DHEP
660	28973316010100	STUD COUPLING-MALE A106 Gr.B 3/8"	15.000	NO	DHEP
670	28973316040100	STUD COUPLING-MALE A106 Gr.B 1.1/2"	12.000	NO	DHEP
680	28973316015100	STUD COUPLING-MALE A106 Gr.B 1/2"	21.000	NO	DHEP
690	29512813152020	GLOBE VALVE FLANGED IS:778 BRONZE CLASS 2 NB-20	36.000	NO	DHEP
700	29512813152040	GLOBE VALVE FLANGED IS:778 BRONZE CLASS 2 NB-40	9.000	NO	DHEP
710	29512813152010	GLOBE VALVE FLANGED IS:778 BRONZE CLASS 2 NB-10	3.000	NO	DHEP
720	28972716025100	STRAIGHT COUPLING A106 Gr.B NB-25	27.000	NO	DHEP
730	28972716010000	STRAIGHT COUPLING A106 Gr.B NB-10	15.000	NO	DHEP
740	28972716015000	STRAIGHT COUPLING A106 Gr.B NB-15	18.000	NO	DHEP
750	28972716040000	STRAIGHT COUPLING A106 Gr.B NB-40	6.000	NO	DHEP
760	75130010060110	PRESSURE GUAGE, RANGE 0-16KG/SQ CM (BP9033531810):TG 25MW HYDRO:TURBINE-BHEL:TGB HOUSING	12.000	NO	DHEP
770	75130010060100	PRESSURE GUAGE SHUT OFF VALVE 3/8 FEMALE (BP9053633010):TG 25MW HYDRO:TURBINE-BH EL:TGB HOUSING	6.000	NO	DHEP
780	75130010012030	DIFFERENTIAL PRESSURE SWITCH 3/8 MALE (BP9033532683):TG 25MW HYDRO:TURBINE-BHEL: TGB HOUSING	3.000	NO	DHEP
790	75130010012040	DIFFERENTIAL PRESSURE SWITCH, RT-116. 3/8 BSP EXT. (BP9033532875):TG 25MW HYDRO: TURBINE-BHEL:TGB HOUSING	6.000	NO	DHEP
800	28999001050040	ADAPTER ASTM:A106 Gr.B NB40	450.000	NO	DHEP
810	75130010092010	Y FILTER, 40NB 1 1/2" BSP FEMALE(STRAINER) 0 210 17 98 011/034:TG 25MW HYDRO:TUR BINE-BHEL:TGB HOUSING	429.000	NO	DHEP
820	75130010008130	CAF JOINT SHEET, 1.5 TK X 1500 X 1500, 0 210 17 98 001/042:TG 25MW HYDRO:TURBINE -BHEL:TGB HOUSING	9.000	PC	DHEP
830	45010508160000	HEX NUT IS:1364-3 (style-1) P8 STEEL M16	12.000	NO	DHEP
840	40512312160659	HEX HD. BOLT IS:1364 PC8.8 M16x65	3.000	NO	DHEP
850	28981016020006	UNION A106 Gr.B NB-20 3-WAY	3.000	NO	DHEP
860	29599050001005	NEEDLE VALVE 3/8" BRONZE/GM	6.000	NO	DHEP
870	29512531040050	GATE VALVE FLANGED IS:10611 CS 150mm(6")	3.000	NO	DHEP
880	75130010000060	40 NB SERVO OPERATED VALVE : COOLING WATER SYSTEM TG 25MW HEP TURBINE-BHEL: TGB HOUSING	3.000	NO	DHEP
890	26521036100503	50NB Plate Flange T-18 mm, RF D-102 mm, No. of Holes-4, Hole Dia18 mm, PCD-125 m m IS: 6392, Table 17- class 1.6	6.000	NO	DHEP
900	26521007000653	FLANGE: BLIND FLANGE PN16 IS:6392 DN 65 STEEL	3.000	NO	DHEP
910	26521007000403	FLANGE: BLIND FLANGE PN16 IS:6392 DN 40 STEEL	3.000	NO	DHEP
920	26521007000253	FLANGE: BLIND FLANGE PN16 IS:6392 DN 25 STEEL	6.000	NO	DHEP
930	26521007000203	FLANGE: BLIND FLANGE PN16 IS:6392 DN 20 STEEL	3.000	NO	DHEP
940	26521007000153	FLANGE: BLIND FLANGE PN16 IS:6392 DN 15 STEEL	30.000	NO	DHEP
950	40512312200659	HEX HD. BOLT IS:1364 PC8.8 M20x65	30.000	NO	DHEP

Line Item	Material Code	Material Long Text	Qty.	UOM	Plant
960	45010508200000	HEXAGON NUT IS:1364-3 P8 STEEL M20	12.000	NO	DHEP
970	40512300040409	HEX HD. BOLT IS:1364 M4x40	15.000	NO	DHEP
980	28999060060065	PIPE CLIP-STEEL NB-65	36.000	NO	DHEP
990	28999060060050	PIPE CLIP-STEEL NB-50	54.000	NO	DHEP
1000	28999060060040	PIPE CLIP-STEEL NB-40	15.000	NO	DHEP
1010	28999060060020	PIPE CLIP-STEEL NB-20	60.000	NO	DHEP
1020	28999060060010	PIPE CLIP-STEEL NB-10	15.000	NO	DHEP
1030	28999060081065	PIPE SUPPORT STEEL FOR NB-65 PIPE	36.000	NO	DHEP
1040	28999060081050	PIPE SUPPORT STEEL FOR NB-50 PIPE	54.000	NO	DHEP
1050	28999060081040	PIPE SUPPORT STEEL FOR NB-40 PIPE	15.000	NO	DHEP
1060	28999060081020	PIPE SUPPORT STEEL FOR NB-20 PIPE	60.000	NO	DHEP
1070	28999060081010	PIPE SUPPORT STEEL FOR NB-10 PIPE	60.000	NO	DHEP
1080	28999075757080	SUPPORT BLOCK-STEEL NB-80	15.000	NO	DHEP
1090	28999075757065	SUPPORT BLOCK-STEEL NB-65	18.000	NO	DHEP
1100	28999075757050	SUPPORT BLOCK-STEEL NB-50	36.000	NO	DHEP
1110	28999075757040	SUPPORT BLOCK-STEEL NB-40	15.000	NO	DHEP
1120	28999075757020	SUPPORT BLOCK-STEEL NB-20	42.000	NO	DHEP
1130	28999075757010	SUPPORT BLOCK-STEEL NB-10	150.000	NO	DHEP
1140	47028512060129	HEX HD SCREW IS:1364 PC 8.8 STEEL M6x12	72.000	NO	DHEP
1150	47028512120609	HEX HD SCREW IS:1364 PC 8.8 STEEL M12x60	138.000	NO	DHEP
1160	47028512120209	HEX HD SCREW IS:1364 PC 8.8 STEEL M12x20	12.000	NO	DHEP

नाय इस्टर्न इलेक्ट्रिक पावर कार्पोरेशन लिमिटेड
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
भारत सरकार का उद्यम (A GOVT. OF INDIA ENTERPRISE)
कार्यपालक निदेशक (ओ एंड एम) का कार्यालय
OFFICE OF THE EXECUTIVE DIRECTOR (O&M)
नीपको भवन, आर. जी. बरुआ रोड, गुवाहाटी-781005
NEEPCO BHAWAN, R.G.BARUAH ROAD, GUWAHATI-781005
E-mail: edonm@neepco.co.in / neepco.edonm@gmail.com

No. NEEPCO/ED(O&M)/OPR-58/2024-25/ Date: 27/05/2024

To

The Chief Engineer (HP& I),
HP & I Division,
Central Electricity Authority,
7th Floor, Sewa Bhawan,
R.K. Puram, New Delhi-110066

Sub: Certification of Inflow series data by CEA/CWC.

Ref: Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

Sir,

This is with reference to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, as issued under Notification No. L-1/268/2022/CERC Dated 15th March, 2024.

Your kind attention is drawn to Clause No. 65 (Computation and Payment of Capacity Charge and Energy Charge for Hydro Generating Stations) under Chapter 11 of the said regulations. As per stipulations under sub clause 7 and 8 of Clause No. 65, any shortfall in energy charges on account of saleable scheduled energy being less than the saleable design energy during tariff period 2019-24, due to reasons beyond the control of the generating station, is recoverable (Page 119 and 120 of the referred Regulations are attached at **Annexure-I**)

In the above context, inflow data in respect of Doyang, Panyor Lower, Tuirial & Kameng HPS for the years 2019-20, 2020-21, 2021-22, 2022-23 & 2023-24 as measured/ calculated, are enclosed herewith (**Annexure-II**) along with rainfall maps from the Indian Meteorological Department (**Annexure-III**) for kind reference. It is requested for kind examination and certification by CEA in respect of the above, in order for submission of truing up petition to CERC for recovery of the shortfall energy charges.

Thanking you,

Yours faithfully,

Enclo : Annexures I, II and III

(Bijit Kr. Goswami)
Executive Director (O&M)

Copy to:
Memo No. NEEPCO/ED(O&M)/OPR-58/2024-25/ Date: 27/05/2024

1. The Director (Hydrology), NE, CWC, New Delhi - for kind information, along with Annexures I, II and III.

(Bijit Kr. Goswami)
Executive Director (O&M)

नाथ ईस्टर्न इलेक्ट्रिक पावर कार्पोरेशन लिमिटेड
NORTH EASTERN ELECTRIC POWER CORPORATION LTD.
भारत सरकार का उद्यम/ (A GOVT. OF INDIA ENTERPRISE)
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NEEPCO BHAWAN, R.G.BARUAH ROAD, GUWAHATI-781005
E-mail: edonm@neepco.co.in / neepco.edonm@gmail.com

Not In Original

Memo No. NEEPCO/ED(O&M)/OPR-58/2024-25/ 38-39 Date: 27/05/2024

Copy to:

1. The Director (Technical), NEEPCO, for favour of kind information please.
2. The Executive Director (Commercial), NEEPCO, Shillong, for favour of information please.

Executive Director (O&M)

ANNEXURE-II

Calculated Average Inflow (CuM/Sec) of Tuirial Hydro Power Station (THPS) for the year 2019-20

Date	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
1	12.651	19.181	9.690	46.113	110.949	14.928	109.202	9.301	15.302	0.000	18.001	17.400
2	18.985	12.348	10.091	46.042	111.288	25.361	52.987	8.812	0.000	7.503	24.166	19.462
3	23.877	12.010	16.862	53.071	255.474	47.629	52.916	38.584	2.784	18.535	24.104	12.806
4	6.022	13.706	23.303	58.016	207.967	194.808	50.494	11.705	0.000	6.764	16.479	6.890
5	5.497	14.062	16.675	59.699	138.505	206.559	37.889	11.669	0.000	13.442	11.738	14.160
6	6.112	3.307	43.384	38.737	89.163	243.007	105.516	11.767	28.674	11.742	12.094	14.142
7	13.238	0.000	64.329	25.328	166.006	311.455	71.572	11.901	0.000	8.483	12.041	7.246
8	12.971	5.284	29.211	27.617	139.893	170.718	131.994	38.450	5.000	0.000	5.163	14.017
9	19.724	12.206	16.363	46.887	89.012	67.458	104.964	11.874	0.000	9.009	11.809	20.930
10	6.272	4.883	17.031	101.838	70.662	125.968	108.596	92.314	0.000	0.000	11.676	7.950
11	12.971	4.562	17.227	101.829	15.472	97.326	109.691	65.605	0.000	0.000	12.148	12.984
12	6.316	11.743	17.067	121.072	27.668	98.312	81.130	12.649	0.000	0.000	12.094	14.801
13	2.176	5.275	37.887	140.651	53.665	62.035	43.818	13.975	6.398	8.644	12.059	5.840
14	5.818	5.408	58.591	277.082	56.505	63.352	51.794	51.928	0.000	7.834	18.687	7.059
15	5.444	5.542	45.067	231.578	56.630	96.454	118.871	0.000	0.000	6.801	12.041	14.195
16	19.448	25.810	17.316	163.363	80.481	88.777	81.121	0.000	5.579	7.495	19.230	7.656
17	5.951	39.236	24.505	70.583	133.223	88.866	79.430	0.000	0.000	7.896	12.272	7.683
18	12.945	12.348	24.496	104.130	107.484	78.434	42.714	104.759	0.000	0.000	11.827	7.620
19	12.784	12.384	17.494	103.845	82.636	80.382	104.910	0.000	4.334	8.653	11.881	14.496
20	13.052	12.348	23.045	172.069	31.380	150.346	0.000	24.284	3.613	0.000	18.112	11.898
21	5.844	5.159	24.452	88.532	30.766	97.309	23.803	0.000	0.000	7.914	11.021	12.602
22	5.862	12.482	66.083	111.413	231.986	151.662	24.025	0.000	4.022	0.000	11.066	12.067
23	0.000	23.704	31.490	68.536	464.197	122.647	23.776	103.593	0.000	0.000	11.760	6.846
24	5.960	12.339	22.186	44.551	1047.693	155.997	24.577	0.000	4.467	16.648	16.599	13.848
25	0.000	122.133	19.996	111.938	268.571	159.237	8.331	0.000	0.000	17.048	17.133	8.617
26	0.000	18.896	25.141	159.080	259.628	75.494	77.205	0.000	8.385	17.289	10.781	11.627
27	6.094	18.375	18.397	127.937	214.170	166.021	63.922	2.560	7.610	16.950	10.781	11.555
28	5.319	11.876	25.168	159.285	166.235	142.477	37.328	1.768	0.000	23.792	10.790	12.570
29	0.000	12.215	11.582	134.934	60.359	97.077	36.705	0.000	0.000	17.226	10.549	12.081
30	0.000	16.283	21.580	111.475	86.899	125.701	8.963	0.000	0.000	16.870		12.446
31		2.768		62.214	96.536		36.874		7.396	23.214		18.656

मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(O&M)

R. Bhuyan

Calculated Average Inflow (CuM/Sec) of Tuirial Hydro Power Station (THPS) for the year 2020-21

Date	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
1	11.876	15.028	46.945	36.564	93.125	48.538	75.461	86.971	0.000	0.000	31.306	11.216
2	11.253	8.355	28.284	35.709	298.636	49.277	202.010	32.849	0.000	0.000	17.364	25.381
3	18.486	7.919	19.288	51.307	219.719	48.850	279.049	87.194	0.000	0.000	24.909	18.708
4	25.996	8.266	26.143	44.269	128.631	50.879	762.979	32.653	0.000	0.000	24.536	18.085
5	0.000	8.195	13.417	78.293	60.504	46.633	446.321	33.187	0.000	0.000	16.777	25.364
6	1.219	1.620	19.372	37.507	62.828	48.680	397.719	59.737	0.000	0.000	24.723	11.368
7	1.353	25.155	26.330	50.337	85.095	24.998	237.685	6.416	0.444	0.000	24.927	24.313
8	0.471	4.121	25.208	37.494	41.353	0.221	84.070	32.609	19.496	0.000	22.719	11.301
9	0.000	11.124	25.618	44.737	64.030	24.482	110.094	6.131	0.000	0.000	23.111	14.667
10	15.215	5.092	24.745	37.477	109.774	239.769	136.830	58.579	21.170	0.000	21.375	7.148
11	14.565	11.017	43.567	85.754	86.599	115.018	113.343	4.831	0.000	0.000	20.129	11.021
12	8.569	11.907	63.074	97.364	42.582	99.358	59.195	5.899	0.000	0.000	23.351	17.979
13	15.055	11.800	58.021	76.998	65.890	97.763	67.439	6.567	0.000	0.000	15.610	4.090
14	8.400	0.320	64.823	50.422	179.833	93.276	92.661	0.000	0.000	0.000	22.773	11.048
15	6.806	11.453	64.734	66.189	247.550	189.439	43.382	56.889	5.599	0.000	23.075	10.834
16	8.346	11.676	63.887	59.356	88.478	170.653	16.548	5.090	22.078	0.000	23.227	17.801
17	21.389	0.151	43.522	66.714	43.446	98.698	33.695	0.000	0.000	0.000	22.773	11.030
18	15.072	11.809	30.434	25.141	43.641	74.313	60.894	18.729	0.000	0.000	22.675	17.739
19	8.319	12.441	37.383	52.269	43.446	74.339	34.149	9.622	3.142	0.000	15.975	10.772
20	8.266	12.771	29.668	38.531	133.723	50.069	87.808	0.000	0.000	0.000	15.717	10.594
21	8.213	12.335	8.044	36.617	42.760	49.250	144.940	11.055	0.000	18.962	22.666	11.066
22	15.010	12.486	14.058	31.943	91.344	50.746	88.334	10.922	0.000	0.000	22.497	3.316
23	8.097	11.026	44.563	44.817	43.461	61.234	143.862	10.717	0.000	0.000	23.378	17.231
24	15.251	12.041	36.777	39.052	187.739	51.378	170.527	9.684	0.000	0.000	22.808	10.594
25	5.675	7.380	17.115	29.300	135.967	49.882	142.233	9.426	0.000	15.258	15.860	10.531
26	15.215	7.772	37.570	31.137	141.540	25.105	87.301	10.583	0.000	0.000	16.233	9.988
27	15.144	69.880	16.687	36.947	116.816	49.642	58.971	0.000	0.000	0.000	25.185	2.888
28	15.215	80.582	24.028	51.717	68.668	49.820	57.769	0.505	0.000	0.000	25.132	10.033
29	15.037	80.511	30.621	86.399	44.799	49.001	59.719	0.000	0.000	0.000		10.015
30	22.039	24.826	30.790	59.218	23.173	125.345	32.911	23.974	0.000	0.000		9.419
31		26.686		51.646	73.075		31.487		0.000	0.000		4.892

मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ई एवं एम) का कार्यालय
Office of the EXECUTIVE DIRECTOR(E&M)

Calculated Average Inflow (CuM/Sec) of Tuirial Hydro Power Station (THPS) for the year 2021-22

Date	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	14.560	8.270	4.900	12.620	56.170	264.240	74.940	45.160	27.210	28.200	0.000	6.200
2	0.000	0.000	7.950	1.470	111.700	179.040	76.830	47.660	8.420	13.130	0.000	6.070
3	0.000	7.460	1.500	0.000	671.940	48.490	30.140	14.020	30.480	27.190	16.020	11.180
4	19.150	7.580	4.610	0.000	294.000	233.080	51.060	67.700	0.000	43.350	4.790	11.970
5	0.000	6.960	14.430	9.370	178.521	188.300	23.810	67.830	34.690	26.080	4.480	12.050
6	14.600	7.680	14.380	0.000	231.070	95.230	31.890	0.000	51.210	26.720	31.200	31.020
7	0.000	8.120	17.720	91.020	241.830	48.410	34.880	36.950	191.470	26.190	3.300	0.000
8	0.000	8.360	11.320	64.920	136.490	106.810	37.270	21.640	74.200	29.640	5.450	1.760
9	0.000	7.640	8.020	42.990	101.360	256.690	36.800	40.010	74.440	10.260	0.000	10.150
10	0.000	0.000	64.190	105.892	47.310	163.525	45.370	11.580	24.520	44.460	21.450	10.530
11	0.000	7.260	52.500	53.985	47.350	76.200	11.570	34.770	48.020	13.990	21.640	10.320
12	0.000	3.360	100.440	52.450	28.850	88.290	39.470	36.850	24.310	26.600	1.960	0.000
13	14.670	6.980	74.318	167.280	25.630	27.450	0.000	37.110	25.060	33.890	21.160	10.380
14	0.000	23.930	61.792	168.710	28.790	27.450	8.850	36.940	24.630	33.530	20.320	11.930
15	0.000	26.240	107.330	76.530	28.700	47.430	0.000	62.050	26.180	18.080	6.260	0.000
16	0.000	7.730	48.860	124.680	121.410	66.726	45.110	153.790	25.500	19.120	4.180	0.000
17	0.000	0.000	33.770	83.970	85.160	94.550	62.970	82.430	2.960	41.230	16.600	0.000
18	0.000	7.720	44.930	75.960	30.170	178.960	64.370	62.550	31.970	41.270	16.550	0.000
19	15.030	8.420	26.437	298.730	48.700	200.230	65.420	38.200	32.630	22.740	4.360	0.000
20	0.000	8.150	22.024	242.840	11.640	310.020	91.560	62.540	9.210	22.070	4.590	0.000
21	0.000	0.000	33.320	129.330	48.620	340.100	141.870	39.130	32.250	21.370	0.000	0.000
22	0.000	7.650	97.140	93.820	30.210	190.360	95.280	37.150	38.740	30.960	3.520	0.000
23	0.000	7.810	71.740	55.690	27.040	139.370	83.580	32.740	25.300	8.970	12.480	0.000
24	15.010	8.340	47.953	68.650	62.440	111.590	34.150	30.670	10.090	8.860	13.570	0.000
25	0.000	7.930	29.344	23.748	11.700	83.470	73.880	34.000	39.320	33.310	10.830	0.000
26	0.000	8.130	34.110	42.010	61.570	69.920	45.240	10.070	42.290	7.190	5.240	0.000
27	0.000	7.970	20.310	113.840	31.600	98.190	70.930	34.130	5.220	6.740	0.000	0.000
28	8.270	8.080	19.450	94.360	87.830	139.250	96.500	10.560	32.430	23.990	16.600	0.000
29	0.000	7.750	5.780	74.590	80.650	80.360	89.130	17.690	7.120	5.330		0.000
30	7.120	0.000	9.220	56.050	106.130	133.000	66.290	27.820	37.950	0.000		0.000
31		16.980		37.340	183.410		63.670		42.440	17.280		0.000

मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक, ओ एण्ड एम) का कार्यालय
O/o The EXECUTIVE DIRECTOR(O&M)

R. Bhuyan.

Calculated Average Inflow (CuM/Sec) of Tuirial Hydro Power Station (THPS) for the year 2022-23

Date	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	0.000	4.380	126.910	87.570	177.180	109.960	108.680	59.720	28.420	18.720	0.000	0.000
2	0.000	19.180	126.970	91.410	160.560	113.910	134.300	41.560	12.400	12.940	0.000	0.000
3	0.000	8.020	74.450	364.780	426.920	98.760	197.570	40.250	11.840	13.950	0.000	0.000
4	0.000	11.780	67.640	177.580	253.650	90.230	442.610	38.770	17.840	14.780	0.000	0.000
5	0.000	7.820	56.790	132.800	304.320	99.110	371.640	39.390	18.570	12.850	0.000	0.000
6	0.000	0.000	35.100	227.370	520.560	94.040	268.930	34.160	21.710	12.890	0.000	9.700
7	0.000	0.000	33.380	334.520	258.200	88.680	207.690	35.210	17.350	20.450	0.000	5.590
8	0.000	5.520	31.520	253.560	181.220	78.460	197.980	31.530	19.950	19.310	0.000	2.690
9	0.000	19.250	23.290	206.210	169.660	55.740	168.080	32.950	19.460	17.020	0.000	5.760
10	0.000	46.480	26.530	201.740	164.360	144.800	151.310	30.270	19.790	19.310	0.000	5.320
11	0.000	71.360	21.420	248.300	155.370	229.120	146.450	32.270	23.800	38.940	0.000	4.360
12	7.320	36.720	15.030	209.870	133.890	235.160	96.530	36.060	20.580	19.730	0.000	6.390
13	0.000	15.800	41.030	153.820	186.860	205.430	97.620	24.040	18.470	25.790	0.000	2.270
14	3.680	15.770	44.890	115.600	311.800	174.330	106.950	27.900	16.120	22.680	0.000	6.350
15	0.000	8.000	44.640	106.790	286.470	136.850	89.940	20.870	18.640	25.700	0.000	2.640
16	8.880	4.820	52.100	126.530	213.910	123.060	84.290	21.250	12.860	22.580	0.000	8.120
17	6.050	71.420	78.720	124.770	169.640	110.590	62.420	21.240	14.810	30.730	0.000	7.240
18	6.440	67.590	326.000	147.310	147.700	83.390	97.100	16.350	16.720	26.180	0.000	4.580
19	0.000	63.530	509.190	115.290	140.570	96.450	141.540	21.980	25.690	33.320	0.000	3.690
20	17.420	120.300	509.190	97.670	110.980	80.580	86.910	20.860	14.930	24.330	0.000	15.270
21	6.510	122.080	206.260	115.270	129.891	76.530	83.780	16.290	24.840	13.990	0.000	7.200
22	20.970	82.780	332.970	129.320	117.580	65.080	63.680	18.960	19.800	4.880	0.000	7.680
23	6.450	78.990	261.990	145.610	107.650	162.690	82.690	23.690	18.990	5.190	0.000	8.850
24	0.000	41.850	210.960	269.010	91.380	218.130	108.540	22.550	23.620	31.010	0.000	3.990
25	3.250	43.930	219.020	306.450	86.910	199.770	150.950	11.700	16.380	8.150	0.000	3.280
26	3.340	26.570	144.590	276.210	110.370	140.480	119.680	23.660	17.720	3.190	0.000	4.120
27	2.810	29.430	111.710	192.450	227.190	330.980	90.580	27.370	21.340	2.840	0.000	10.930
28	0.520	15.610	95.960	181.260	135.680	251.100	68.350	26.900	20.840	7.310	0.000	4.110
29	3.740	15.970	100.300	174.150	135.730	176.160	68.290	28.190	9.460	0.000		9.710
30	0.460	16.360	95.810	212.090	114.840	137.360	60.240	36.530	23.980	0.000		0.000
31		60.250		237.660	116.040		56.390		10.850	0.000		8.640

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मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(O&M)

R. Bhuyan

Calculated Average Inflow (CuM/Sec) of Tuirial Hydro Power Station (THPS) for the year 2023-24

Date	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	14.150	0.000	3.370	18.960	43.610	142.150	100.210	13.850	12.070	9.250	6.580	5.460
2	13.930	30.420	6.430	19.350	61.570	99.980	124.870	15.530	11.920	13.300	14.920	9.400
3	25.060	0.000	4.550	23.030	48.790	85.730	129.840	16.770	13.030	8.590	5.850	5.850
4	24.890	4.550	1.030	12.090	37.780	78.090	104.180	20.960	8.980	10.310	6.330	9.050
5	21.810	4.580	0.830	110.820	35.920	61.100	89.240	16.130	11.800	14.180	6.560	4.060
6	21.290	0.850	7.350	222.350	72.230	54.370	65.200	15.720	7.580	14.010	5.880	7.550
7	6.470	0.870	1.160	100.730	192.050	52.900	53.520	12.940	87.380	14.380	1.130	4.030
8	0.000	0.930	7.330	63.590	188.410	76.690	62.940	8.780	88.050	10.820	6.030	7.300
9	2.780	0.860	13.810	41.190	151.240	68.790	10.420	4.010	31.260	15.830	5.270	3.450
10	0.000	0.000	72.450	34.540	105.000	54.610	43.270	4.360	17.350	10.210	0.050	1.160
11	0.000	0.850	39.720	20.740	137.370	89.070	34.250	8.740	12.270	14.680	6.290	8.670
12	0.000	0.790	14.260	19.790	97.740	283.420	22.910	7.800	0.000	27.880	10.480	0.000
13	0.000	0.870	13.930	21.870	82.070	217.730	22.120	7.970	23.700	31.380	10.790	8.240
14	0.000	4.510	36.700	23.000	75.430	165.050	18.590	12.220	20.790	29.780	12.530	3.760
15	0.000	4.420	70.830	29.180	69.790	132.020	13.940	9.210	22.400	28.030	15.470	4.540
16	5.380	0.000	214.040	25.170	120.180	102.580	15.150	14.230	3.220	29.110	8.230	3.380
17	0.000	8.080	154.120	183.580	136.750	86.300	10.760	71.200	11.690	25.720	11.230	0.230
18	0.000	11.720	91.820	75.940	137.950	70.010	19.750	87.260	23.200	25.040	7.700	5.740
19	0.000	0.000	96.060	64.840	118.320	156.410	14.710	28.760	23.380	29.300	1.130	0.000
20	20.680	15.010	73.820	68.580	80.070	239.550	13.300	20.790	19.410	27.540	15.670	5.360
21	2.970	0.000	84.470	65.350	91.790	423.280	12.660	20.380	9.850	28.830	18.430	2.220
22	0.580	8.130	81.060	82.360	109.000	225.210	19.130	19.200	17.690	28.730	20.790	4.670
23	4.190	0.000	69.970	98.270	79.620	147.590	23.570	18.150	7.810	28.060	57.250	6.780
24	0.000	1.660	65.570	298.080	72.900	109.780	12.850	12.200	9.090	22.630	9.080	3.380
25	0.000	0.000	47.010	278.970	57.550	84.840	22.670	0.000	18.400	24.920	16.560	3.520
26	0.000	27.580	55.230	244.750	97.600	66.270	21.890	10.060	14.740	14.650	8.890	13.160
27	0.000	11.210	55.140	152.820	150.460	137.730	13.340	11.100	9.890	15.920	10.090	2.400
28	0.000	1.260	37.790	93.440	151.570	92.670	18.370	12.360	15.000	10.670	9.200	6.090
29	0.000	1.200	30.370	66.490	92.040	74.160	17.590	17.820	13.510	4.380	8.550	2.420
30	0.000	7.670	19.210	65.210	88.880	73.410	13.640	9.580	8.840	9.250		7.460
31		0.000		67.720	113.280		17.250		13.930	13.710		0.000

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Chief General Manager(E/M),
कार्यपालक निदेशक, जो एण्ड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(O&M)

24/05/2024
Sri. M. R. Khuyan
Sr. M. (E/M)

Calculated Average Inflow (CuM/Sec) of Doyang Hydro Power Station (DHPS) for the year 2019-20

Date	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
1	0.000	3.547	5.260	37.439	147.883	28.554	94.463	85.878	11.493	3.861	0.000	0.000
2	4.346	6.013	2.627	69.207	291.238	25.655	102.507	72.014	14.693	6.233	5.430	0.000
3	0.005	5.623	7.096	100.136	292.478	27.579	85.726	61.913	15.661	10.620	5.546	0.000
4	0.000	15.842	9.768	66.477	337.824	24.827	85.314	65.632	15.469	5.645	0.000	0.000
5	8.758	28.483	6.867	63.445	182.031	26.674	68.425	58.738	11.728	34.292	0.000	0.000
6	4.216	10.542	8.574	91.563	114.959	53.772	63.792	56.053	14.246	0.000	0.000	0.000
7	0.178	24.381	28.099	71.935	78.285	38.990	137.950	29.041	14.005	9.874	4.499	0.000
8	4.324	0.000	31.466	148.070	72.982	79.540	153.023	41.564	10.910	4.422	5.279	0.000
9	8.902	2.178	23.976	139.579	83.921	39.560	133.305	20.562	7.457	6.451	3.157	0.000
10	4.389	1.882	19.542	106.247	99.304	71.773	94.405	57.182	17.393	6.497	3.366	0.000
11	4.403	0.298	23.155	98.589	63.827	99.421	112.220	56.789	7.288	2.175	3.489	0.000
12	4.259	1.084	25.598	80.908	44.262	72.708	92.726	65.716	8.679	5.979	0.000	0.000
13	4.216	2.907	28.047	51.469	64.021	136.690	96.324	44.677	12.618	7.250	2.616	0.000
14	2.770	3.119	26.002	28.273	124.121	116.878	63.652	29.947	9.594	0.000	1.006	0.000
15	5.221	5.617	44.478	11.335	90.366	102.062	72.569	43.153	11.061	5.784	1.129	0.000
16	9.381	3.863	28.173	4.344	84.404	97.429	89.473	33.149	9.722	1.808	0.000	0.000
17	20.759	5.280	32.818	32.107	80.340	101.574	74.590	29.963	4.366	19.447	0.000	0.000
18	0.000	3.757	15.721	27.647	79.874	100.687	50.898	27.011	6.411	0.000	0.000	0.000
19	5.995	2.889	21.577	31.106	73.474	68.272	68.634	27.394	7.625	5.802	0.000	0.000
20	5.120	2.317	30.306	60.144	56.242	77.434	39.029	27.079	7.139	0.000	0.000	0.000
21	8.114	2.469	50.493	44.157	53.712	59.395	49.777	22.224	7.776	30.037	0.000	0.000
22	0.000	10.079	47.707	35.863	47.608	89.741	38.759	28.852	11.276	7.386	0.000	0.000
23	2.934	7.265	29.793	27.314	54.188	98.344	30.513	18.031	1.610	0.000	0.000	0.000
24	2.732	24.053	22.286	22.730	29.417	148.706	45.230	20.588	2.730	15.521	0.000	0.000
25	2.725	41.667	17.491	49.265	45.506	171.691	44.350	20.307	3.922	0.000	0.000	0.000
26	0.989	32.282	21.784	84.993	54.500	157.970	185.105	17.764	7.826	2.448	0.000	2.393
27	4.526	17.282	17.599	105.855	3.930	150.842	361.939	15.989	5.448	4.937	0.458	2.133
28	5.322	10.755	16.578	144.449	43.779	138.793	216.067	16.729	6.257	12.893	1.497	0.091
29	5.532	8.755	14.821	103.599	30.708	111.199	156.739	15.920	7.964	0.000	0.000	0.000
30	9.452	5.677	47.559	93.880	27.946	116.125	119.628	12.649	7.927	5.317		0.000
31		4.947		83.805	33.116		87.309		5.337	0.000		0.000

मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एंड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(O&M)
नेएसं. गुवाहाटी-781006 / NEEPCO,Guwahati-781006

Calculated Average Inflow (CuM/Sec) of Doyang Hydro Power Station (DHPS) for the year 2020-21

Date	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
1	1.723	8.319	23.522	58.108	84.560	63.206	82.259	95.037	13.810	3.858	4.073	0.000
2	0.265	4.260	12.662	80.351	76.898	63.047	83.079	118.940	13.752	3.822	4.426	1.165
3	1.059	5.422	24.961	70.191	60.644	46.461	96.148	101.032	13.788	3.735	4.498	2.212
4	0.525	8.723	9.079	55.223	83.918	54.252	76.062	71.535	5.050	12.430	4.231	5.322
5	0.388	5.299	12.238	143.231	13.337	37.435	92.295	80.482	14.221	3.641	3.950	0.000
6	0.034	8.507	10.294	247.340	106.621	44.909	93.659	70.949	15.130	12.314	4.065	5.407
7	0.000	8.817	13.898	238.469	149.368	37.904	88.104	54.546	15.123	3.591	3.878	5.132
8	0.000	3.762	9.948	193.130	141.850	39.136	109.302	55.245	5.504	12.249	4.527	3.501
9	0.000	8.016	5.766	167.138	199.451	42.737	104.224	43.705	13.449	0.000	3.582	1.878
10	0.000	0.064	22.081	114.334	147.113	66.090	131.142	41.194	14.040	4.314	4.051	3.307
11	0.000	0.031	51.045	144.379	115.667	58.955	98.831	39.195	13.687	11.946	3.625	4.848
12	4.230	4.148	73.453	115.763	141.737	42.340	83.118	40.991	12.200	0.000	3.647	18.629
13	4.187	4.140	83.067	106.160	152.847	58.392	99.177	22.631	4.292	20.481	3.654	0.000
14	0.128	4.162	62.708	165.067	146.667	49.670	83.240	31.312	13.701	0.000	3.553	6.645
15	3.970	4.003	51.653	181.971	111.771	49.453	115.265	22.263	4.321	11.918	3.683	18.376
16	3.934	8.452	62.664	109.605	111.439	48.970	49.864	24.558	12.482	4.559	3.748	0.000
17	0.070	12.821	130.684	86.040	101.919	40.608	80.604	24.580	4.075	4.444	13.293	0.000
18	7.983	3.127	198.007	77.809	102.670	48.089	83.806	18.238	12.078	4.407	16.721	0.000
19	3.736	3.517	172.942	63.746	140.770	55.893	82.009	27.135	12.244	3.722	0.000	0.000
20	4.545	7.929	292.456	69.692	133.419	47.882	87.310	17.119	3.505	11.975	0.568	0.000
21	7.730	0.558	261.125	61.071	135.124	45.797	79.634	17.141	12.648	3.830	0.893	0.000
22	8.733	12.573	137.886	60.934	125.785	55.544	103.327	22.321	12.792	4.523	0.308	0.000
23	7.761	8.261	126.626	68.855	144.136	72.491	164.167	14.463	4.003	12.156	0.000	0.000
24	10.559	13.323	196.884	83.825	144.700	78.192	183.275	23.512	12.763	4.400	8.359	0.000
25	4.108	4.809	86.365	75.398	126.732	69.544	143.973	14.673	4.292	3.325	8.381	0.000
26	5.338	17.692	72.288	76.632	125.142	63.362	120.548	14.052	3.938	3.852	23.021	2.343
27	8.798	54.341	64.586	52.031	93.555	59.609	96.286	13.980	12.648	4.364	0.000	7.353
28	12.763	28.008	56.740	84.287	71.695	64.363	80.342	13.980	3.837	4.025	0.080	6.321
29	3.048	26.251	64.384	100.527	63.045	58.351	73.688	22.718	12.337	4.061		21.855
30	8.488	62.236	58.385	99.213	56.014	47.009	64.239	13.915	4.025	3.808		11.950
31		21.133		100.880	63.473		69.425		12.150	3.873		0.000

मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक(आ एण्ड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(A&M)

R. Bhuyan

Calculated Average Inflow (CuM/Sec) of Doyang Hydro Power Station (DHPS) for the year 2021-22

Date	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	0.000	0.000	4.690	14.162	148.116	102.575	23.768	15.517	0.000	2.519	3.036	2.462
2	0.000	0.000	4.466	14.011	167.934	109.837	20.080	7.761	7.897	2.952	2.459	2.607
3	2.314	0.000	4.444	14.191	98.490	119.646	28.162	7.350	1.313	2.592	0.000	0.000
4	2.725	0.000	4.740	15.086	49.894	91.919	18.853	7.964	0.953	2.519	5.346	2.462
5	0.000	0.000	0.342	70.648	29.847	64.993	34.905	7.422	0.000	0.000	3.614	0.000
6	0.000	0.000	0.328	25.317	38.136	58.366	26.515	7.581	1.025	2.736	3.108	0.000
7	0.000	0.000	4.473	34.561	87.923	51.847	18.810	7.372	0.880	0.000	12.201	2.607
8	0.000	0.000	0.046	44.378	116.560	163.081	26.912	7.733	8.114	2.880	1.954	0.000
9	0.000	1.555	0.400	43.666	61.264	76.013	18.904	7.891	1.025	2.447	4.480	0.000
10	0.000	0.000	4.473	68.017	18.666	87.843	18.695	6.715	1.169	0.000	5.201	2.462
11	0.000	0.000	21.986	36.023	38.071	49.104	27.027	7.401	7.825	2.519	0.000	0.000
12	0.394	0.000	12.674	33.663	45.317	63.302	19.438	0.000	0.664	2.664	4.840	0.000
13	0.000	0.000	8.392	41.514	40.203	45.200	19.373	6.939	0.361	2.808	4.768	0.000
14	0.000	0.000	12.075	23.965	27.604	35.489	20.297	7.516	7.464	2.664	0.000	0.000
15	0.000	3.791	15.828	30.091	30.104	36.196	11.942	7.733	7.897	2.519	0.000	2.029
16	0.000	4.065	20.320	38.172	37.043	44.319	9.359	0.000	0.520	2.736	0.000	0.000
17	0.000	0.000	16.607	88.831	238.015	108.138	18.666	7.805	0.447	2.664	9.476	0.000
18	0.000	0.017	16.983	76.146	189.926	85.738	10.506	0.000	0.808	2.664	0.000	0.000
19	0.000	0.623	13.047	60.731	125.878	56.427	19.055	0.000	0.000	2.592	0.000	0.000
20	1.868	4.516	42.844	114.684	98.641	44.067	18.889	8.529	7.753	2.664	0.000	0.000
21	0.000	4.041	70.189	101.951	92.628	52.926	33.621	7.880	0.953	2.519	0.000	0.000
22	0.000	3.510	37.592	36.910	73.519	44.514	25.865	1.513	0.375	2.620	0.000	1.957
23	0.000	4.451	28.257	25.556	58.129	52.681	25.627	1.657	3.278	2.519	2.387	0.000
24	0.000	4.256	19.303	28.831	44.096	44.269	17.598	1.729	0.000	2.664	2.459	0.000
25	0.000	4.155	19.346	37.874	43.974	44.305	17.569	1.873	2.845	2.808	2.675	0.000
26	0.000	3.733	21.377	35.687	57.848	44.449	16.270	1.729	3.062	0.000	2.026	0.000
27	0.000	0.000	20.231	53.784	51.243	37.120	17.475	15.474	3.062	2.952	2.531	0.000
28	0.000	0.000	15.602	36.401	59.738	35.871	9.258	8.241	2.918	0.000	2.098	0.000
29	0.000	4.285	8.358	22.731	65.325	44.781	8.529	8.168	2.918	0.000		0.000
30	8.834	0.000	11.521	39.031	90.924	33.442	16.515	1.152	3.062	2.303		0.000
31		4.407		156.200	124.773		7.987		2.918	1.509		0.000

मुख्य महाप्रबंधक (इ/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/o The EXECUTIVE DIRECTOR(O&M)
नेएहा, गुवाहाटी-781005 / NEEPCO,Guwahati-781005

R. Bhuyan

Calculated Average Inflow (CuM/Sec) of Doyang Hydro Power Station (DHPS) for the year 2022-23

Date	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	0.000	4.537	117.602	50.263	66.323	58.043	8.849	23.170	11.954	0.000	0.281	0.000
2	0.000	4.934	40.377	141.832	58.852	40.735	55.017	23.148	2.571	4.447	0.000	0.000
3	0.000	18.802	72.107	149.773	92.195	48.365	51.071	34.491	3.611	0.535	0.000	0.000
4	4.519	46.493	50.371	206.887	106.990	38.268	71.400	29.142	13.134	0.386	0.000	0.000
5	0.000	41.206	31.817	166.981	149.891	45.573	63.378	0.866	0.000	5.958	0.000	0.000
6	0.000	12.858	26.424	126.520	178.682	64.777	47.689	21.019	12.236	0.000	0.000	0.000
7	0.000	7.335	37.594	106.105	121.359	69.011	54.429	29.681	2.500	1.892	0.000	0.000
8	0.000	19.639	41.865	189.907	104.436	53.569	70.361	1.653	9.445	5.980	0.000	0.000
9	4.512	7.357	34.472	121.884	75.987	51.569	75.133	23.657	0.848	5.156	0.000	0.000
10	11.636	12.230	56.808	115.424	77.161	39.438	52.182	0.000	8.943	0.903	0.000	0.000
11	39.977	27.498	38.011	115.633	55.417	61.100	50.421	27.352	0.000	2.944	0.000	0.000
12	25.468	99.697	38.192	95.168	49.559	81.040	44.954	19.776	11.745	3.035	0.000	0.000
13	25.359	24.855	23.230	79.287	42.200	150.119	34.095	6.408	6.310	2.841	0.000	0.000
14	0.000	6.987	32.246	57.660	46.751	217.680	52.778	18.727	0.000	0.000	2.704	0.000
15	4.641	10.119	40.441	42.169	69.150	180.541	31.353	11.700	22.879	2.885	0.000	0.000
16	0.000	20.306	81.188	36.689	46.084	127.204	29.808	13.218	4.809	2.649	2.841	0.000
17	11.651	21.988	66.956	42.479	42.940	93.898	34.604	2.857	3.362	2.740	2.986	1.600
18	11.615	19.649	48.219	41.425	49.741	92.852	38.466	18.354	3.499	2.617	0.000	0.000
19	4.786	46.064	69.453	19.377	42.284	69.937	31.609	7.227	4.848	3.008	0.000	1.809
20	11.535	41.183	52.260	10.913	35.015	58.479	19.804	11.150	0.000	2.741	0.000	1.873
21	4.757	32.128	110.528	100.187	41.970	90.376	25.822	9.790	4.565	0.000	0.000	1.930
22	11.766	34.242	216.843	79.130	42.165	74.267	24.774	0.295	1.836	0.000	0.000	1.682
23	2.114	24.850	291.163	100.131	35.996	63.009	32.382	17.408	0.000	0.000	0.000	0.000
24	1.969	15.267	176.373	72.287	42.313	148.633	44.567	7.041	10.314	3.003	0.000	0.000
25	1.724	29.337	177.913	106.735	42.414	130.080	80.471	10.000	2.010	2.885	0.000	0.000
26	0.000	34.206	123.607	113.203	44.247	131.340	86.163	5.143	7.493	2.953	0.000	1.582
27	1.558	16.034	89.296	114.538	51.458	116.774	54.311	9.857	4.809	1.569	0.000	0.000
28	0.000	26.044	68.109	93.863	87.725	99.921	45.425	4.208	7.399	0.276	0.000	0.426
29	5.002	24.947	50.980	86.811	80.425	89.479	33.512	9.434	3.521	0.000		0.534
30	11.499	24.526	38.794	107.738	64.233	59.797	26.548	0.114	3.297	0.000		0.260
31		25.101		93.993	50.672		53.286		1.844	0.000		4.774

Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/o The EXECUTIVE DIRECTOR(O&M)

मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/o The EXECUTIVE DIRECTOR(O&M)

Calculated Average Inflow (CuM/Sec) of Doyang Hydro Power Station (DHPS) for the year 2023-24

Date	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	4.572	0.183	0.270	58.300	86.090	94.597	48.607	15.386	0.911	0.000	2.675	0.000
2	8.064	0.000	4.693	34.712	50.099	73.704	48.740	8.339	0.809	0.000	2.459	2.375
3	4.803	0.089	0.321	41.635	175.567	73.248	64.481	15.573	7.483	0.000	2.531	2.462
4	4.803	4.393	0.191	34.619	267.454	37.179	27.380	8.515	10.092	0.000	2.459	0.000
5	4.803	0.121	0.230	64.421	194.357	68.000	36.287	15.180	0.000	0.000	0.000	0.000
6	4.803	4.693	0.111	269.745	147.195	34.751	44.695	8.287	0.000	6.922	2.264	0.000
7	7.407	0.118	4.502	126.971	455.249	39.441	44.202	15.137	7.454	0.000	0.000	0.000
8	0.463	0.183	9.019	92.992	380.186	52.070	30.933	8.010	28.422	0.000	0.000	0.000
9	7.407	0.031	4.665	75.437	254.346	104.268	56.226	8.235	14.392	2.519	0.000	0.000
10	0.463	0.000	9.018	51.291	327.337	44.887	23.693	8.206	10.384	2.447	0.000	0.000
11	0.000	0.132	22.059	45.569	234.345	83.683	31.499	7.966	11.518	2.519	0.000	5.121
12	0.000	0.000	25.720	38.387	198.469	92.618	30.608	0.819	7.252	2.519	0.000	0.000
13	0.254	0.086	33.142	13.497	157.006	108.356	31.904	8.126	2.946	2.447	0.000	0.000
14	0.366	0.229	16.352	53.950	175.663	51.099	31.987	7.966	7.371	2.519	0.000	5.413
15	0.261	0.086	17.381	135.037	151.571	82.780	25.419	8.146	7.421	2.664	0.000	0.000
16	0.157	4.523	18.759	300.498	186.346	74.334	21.344	1.333	7.451	2.664	0.000	0.000
17	0.176	4.314	24.375	180.700	186.691	64.967	20.839	8.357	7.407	0.000	0.000	5.291
18	0.106	0.000	34.297	102.128	182.007	48.662	20.933	8.382	6.613	2.447	0.000	0.000
19	0.294	4.249	30.193	74.026	176.580	54.919	18.305	8.364	0.219	0.000	0.000	5.293
20	0.186	4.312	22.662	115.432	111.478	112.683	14.229	8.408	0.282	0.000	4.857	0.000
21	0.157	0.024	11.633	80.450	132.686	95.047	11.609	15.541	0.100	0.000	0.000	0.000
22	0.200	4.496	25.618	58.803	141.672	93.322	16.351	16.138	0.052	0.000	0.000	10.108
23	4.597	0.183	25.695	148.768	118.584	76.859	5.664	17.721	0.155	0.000	4.929	5.440
24	4.382	4.278	22.395	198.410	109.042	76.691	15.236	21.365	7.196	0.000	11.657	5.077
25	0.300	4.278	39.863	158.410	143.584	76.896	22.371	22.302	7.110	0.000	11.801	0.000
26	4.571	8.659	51.389	131.397	168.460	60.823	29.729	15.863	0.279	0.000	5.506	5.438
27	4.425	8.661	98.340	90.090	135.579	60.276	22.901	8.822	7.124	0.000	0.000	5.438
28	0.000	8.625	107.311	82.842	119.649	59.142	15.586	0.981	0.201	0.000	4.496	6.105
29	0.236	0.115	107.081	66.341	87.741	56.859	15.770	0.000	0.000	0.000	0.000	0.000
30	0.292	8.690	58.280	52.970	86.885	48.950	15.825	7.848	0.099	0.000		5.943
31		0.178		65.465	142.393		8.578		0.000	0.000		6.087

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मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एंड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(O&M)

29/05/2024

Average Inflow (CuM/Sec) of Panyor Lower Hydro Power Station (PLHPS) for the year 2019-20

Date	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
1	36.083	151.608	52.125	60.036	192.244	55.700	100.119	43.098	33.048	19.628	20.530	22.534
2	26.336	136.625	43.658	73.577	163.956	55.994	110.004	42.499	39.659	20.161	20.028	21.147
3	27.544	76.038	46.233	95.927	136.556	57.453	96.026	39.864	31.875	22.338	20.985	27.726
4	28.069	50.782	54.775	71.251	130.891	73.212	86.010	37.525	28.286	28.395	19.568	24.428
5	27.832	216.958	45.791	68.559	113.829	62.622	78.679	37.772	27.946	28.775	19.787	25.729
6	27.350	141.543	53.337	58.079	114.754	133.236	84.799	44.182	25.965	23.344	20.435	21.731
7	27.255	76.685	47.349	174.195	96.156	93.308	83.794	40.473	26.947	21.491	19.843	20.605
8	27.008	62.814	53.739	325.892	126.037	66.579	79.369	38.005	26.970	21.531	18.472	25.020
9	26.438	121.006	49.910	519.175	112.635	75.926	84.386	36.811	28.527	21.530	19.096	41.038
10	38.298	103.356	46.694	509.243	110.719	120.188	74.802	35.449	25.244	20.824	20.558	22.171
11	28.737	121.325	39.600	436.201	90.209	93.409	70.586	35.000	26.088	20.104	17.183	28.288
12	26.773	70.499	52.596	367.718	85.595	135.739	66.257	35.094	26.634	20.643	17.601	73.276
13	26.015	61.394	39.743	279.559	85.680	106.292	63.117	35.096	27.352	18.477	15.297	45.062
14	25.352	54.624	36.712	186.491	80.618	99.366	59.142	32.246	23.990	17.283	16.284	30.975
15	26.054	62.403	58.147	215.385	98.092	102.074	56.803	34.320	27.228	16.860	13.904	29.332
16	25.295	56.550	58.499	296.098	93.097	199.152	56.654	33.323	25.331	18.244	14.375	30.024
17	26.892	82.617	110.244	200.897	88.347	175.591	53.494	34.979	26.047	19.128	14.815	21.986
18	25.721	83.174	152.737	165.218	71.065	121.900	52.542	34.482	28.516	19.166	14.354	21.106
19	26.236	86.868	70.605	140.817	73.751	101.068	52.179	36.138	26.405	17.783	20.644	22.792
20	25.979	57.416	56.647	115.894	65.375	89.711	49.612	83.720	25.169	18.205	23.722	21.943
21	25.538	65.749	50.507	132.320	63.158	93.271	54.636	42.906	25.647	18.666	20.356	19.713
22	23.984	102.512	53.831	260.560	60.918	88.271	52.197	32.881	26.631	19.661	18.568	22.051
23	23.316	178.295	56.266	161.497	74.819	118.350	51.284	32.058	24.914	19.138	16.228	21.383
24	22.934	116.323	75.244	131.806	105.913	250.894	47.877	31.974	23.469	21.912	21.357	22.540
25	22.421	87.232	57.843	164.824	68.727	153.986	44.628	30.714	22.975	20.767	21.503	22.275
26	15.646	76.760	172.811	164.575	57.662	121.519	117.952	30.581	23.303	20.910	28.899	19.278
27	26.821	65.087	107.286	161.975	54.848	125.841	74.546	30.758	24.103	18.883	50.624	21.588
28	37.173	89.303	147.779	135.629	49.215	115.108	51.822	28.693	23.281	19.275	31.958	21.206
29	52.397	62.007	88.913	118.288	51.446	107.158	46.871	27.808	22.263	19.112	25.233	39.563
30	100.812	58.311	72.011	104.609	49.436	95.643	46.153	31.450	21.439	19.666		28.216
31		56.291		136.719	55.667		46.224		20.933	23.977		21.676

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मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक(ओ एण्ड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(O&M)

R. Bhuyan

Average Inflow (CuM/Sec) of Panyor Lower Hydro Power Station (PLHPS) for the year 2020-21

Date	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
1	19.625	59.569	90.193	111.875	176.144	57.822	83.760	40.830	22.080	17.158	16.445	113.833
2	22.267	36.848	157.055	190.317	161.089	60.233	78.117	35.816	22.558	18.871	17.050	59.666
3	41.704	33.149	112.749	126.524	153.799	58.205	75.380	38.809	22.858	18.051	17.608	27.809
4	21.844	31.400	123.667	101.416	118.320	53.752	76.253	39.249	24.302	18.081	16.040	20.635
5	16.983	36.125	118.588	97.172	114.543	60.986	87.569	37.887	24.420	16.811	15.419	22.600
6	18.300	41.772	198.517	93.444	101.958	151.389	111.418	34.604	24.111	17.428	14.389	34.921
7	22.064	37.845	146.001	93.538	102.698	122.251	111.113	35.190	24.843	19.127	16.225	25.447
8	22.873	25.431	110.927	92.871	100.053	88.962	81.866	35.994	23.858	18.762	15.201	19.961
9	19.081	24.756	92.284	147.082	99.357	69.324	79.534	33.920	22.634	17.733	15.740	18.873
10	15.511	21.489	80.276	201.151	105.558	59.696	68.500	32.282	17.733	17.977	15.057	17.497
11	19.968	27.039	81.871	230.343	156.653	80.176	74.339	31.840	23.402	17.202	15.953	19.052
12	28.528	30.474	67.475	213.812	133.920	84.011	61.982	32.742	22.438	18.659	16.875	22.272
13	22.878	43.859	110.988	171.102	103.432	101.160	55.653	31.177	21.500	27.147	13.186	20.381
14	19.378	103.611	91.378	131.218	97.399	84.691	56.813	30.196	21.228	25.177	14.294	20.032
15	18.293	42.077	78.043	118.980	86.390	75.019	51.582	28.348	23.667	18.606	15.105	22.017
16	24.589	43.774	80.013	130.883	88.197	80.193	46.633	31.191	21.426	17.172	18.491	36.633
17	28.322	107.854	74.794	128.681	131.137	96.398	46.375	30.434	21.486	16.588	13.797	21.662
18	22.781	53.563	156.594	124.976	95.638	104.990	44.838	33.876	22.396	17.846	14.458	19.772
19	55.139	49.375	119.582	135.350	89.777	84.658	46.355	35.292	23.252	17.178	15.721	18.191
20	85.274	38.793	118.542	181.060	61.502	70.897	45.699	35.110	19.589	18.168	15.021	16.316
21	48.416	97.477	94.286	193.076	74.622	74.613	43.843	30.773	21.859	21.823	13.616	16.466
22	54.094	623.011	100.325	196.558	83.454	120.124	43.492	29.094	19.796	20.800	13.189	16.666
23	33.921	420.575	116.034	140.646	74.540	149.998	45.797	29.263	18.374	18.791	13.804	19.711
24	58.662	292.692	126.583	131.939	67.000	140.180	85.837	28.908	17.896	17.874	13.861	16.133
25	78.676	308.375	154.417	119.041	67.341	147.078	90.122	25.411	14.778	18.030	13.544	15.406
26	46.143	273.005	202.247	108.530	58.880	139.641	67.633	23.705	18.807	18.051	12.878	15.384
27	36.485	294.925	273.785	107.698	44.414	125.435	55.761	25.089	19.464	16.358	14.670	15.027
28	40.341	154.162	188.486	419.987	22.765	119.974	44.615	26.601	19.484	16.056	21.069	14.194
29	31.569	121.943	152.063	255.805	70.577	92.864	42.048	25.648	19.928	15.000		14.105
30	38.455	105.128	124.352	314.154	101.391	88.831	33.167	26.229	19.044	16.808		15.416
31		99.282		257.664	74.175		45.230		17.975	16.228		23.469

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मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/o The EXECUTIVE DIRECTOR(O&M)

R. Bhuyan

Average Inflow (CuM/Sec) of Panyor Lower Hydro Power Station (PLHPS) for the year 2021-22

Date	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	22.210	20.194	61.069	64.675	143.934	212.634	51.462	31.235	23.731	18.929	16.611	22.073
2	20.761	19.961	91.722	47.443	212.210	152.752	50.633	32.023	25.062	14.756	22.008	24.773
3	15.383	18.722	69.489	66.336	66.054	130.797	61.110	31.080	21.644	17.485	16.713	21.430
4	14.977	18.328	80.178	73.058	68.569	110.503	51.478	31.389	24.670	20.099	14.050	16.606
5	14.626	20.272	306.857	55.343	63.384	98.529	54.680	27.515	22.128	19.437	35.825	19.571
6	15.522	48.419	198.139	56.814	57.656	90.602	57.494	32.920	21.679	19.976	60.259	20.379
7	13.798	32.777	151.869	62.161	58.680	174.273	50.633	29.653	21.821	17.283	31.445	20.570
8	14.278	41.962	293.447	140.092	84.560	152.969	47.570	25.366	22.214	15.384	26.083	21.141
9	23.122	41.145	165.521	98.910	70.985	128.921	45.098	24.833	22.033	19.881	25.394	22.730
10	21.170	30.669	106.801	88.494	66.067	118.058	46.100	26.796	20.566	18.171	20.599	21.543
11	15.895	81.161	87.846	74.061	77.015	106.727	38.158	26.880	22.267	15.172	25.071	23.041
12	14.355	63.998	77.262	84.746	99.311	107.981	36.516	26.174	22.606	19.071	24.554	30.555
13	13.933	58.772	97.447	80.647	87.974	89.024	36.698	26.026	19.934	26.158	18.981	26.264
14	54.735	67.869	93.079	85.480	247.814	83.296	36.406	25.085	18.762	18.300	17.558	29.770
15	32.684	55.316	67.910	96.089	138.322	75.378	36.302	25.828	21.420	18.075	18.280	24.944
16	19.683	70.661	62.374	90.969	92.053	89.180	36.857	24.413	19.838	16.716	17.561	27.359
17	38.269	56.204	59.223	112.577	76.482	95.828	36.335	23.143	22.153	14.778	18.837	21.588
18	28.481	59.636	77.439	106.838	83.024	123.346	52.182	25.571	21.816	17.530	17.311	20.499
19	29.555	111.627	64.283	127.777	102.268	86.672	59.678	23.491	19.788	15.100	17.311	21.339
20	23.101	178.540	72.343	169.659	87.669	75.902	145.875	22.660	19.208	14.485	17.160	22.150
21	48.915	94.577	69.313	120.364	83.536	68.961	95.522	24.112	22.012	15.899	20.788	24.820
22	26.583	109.797	74.422	98.594	75.532	66.992	54.125	24.662	19.502	14.506	22.465	19.130
23	18.666	54.747	65.175	80.092	80.063	68.313	49.262	37.440	20.547	16.575	20.242	18.568
24	16.639	43.658	61.542	74.457	84.462	65.696	42.779	29.304	20.010	18.572	17.806	25.969
25	14.560	51.489	60.678	72.356	94.847	62.065	40.562	29.861	18.467	18.097	16.387	26.364
26	15.778	62.082	60.299	65.198	180.429	60.776	40.702	24.448	20.385	19.943	17.645	49.316
27	34.116	282.290	52.191	93.150	279.907	61.928	39.203	24.082	18.578	16.871	18.898	48.943
28	21.078	94.816	50.376	63.680	253.458	67.439	37.713	21.153	21.270	16.961	19.992	28.167
29	29.211	60.182	49.569	70.619	177.411	55.821	34.580	25.361	18.964	17.604		22.214
30	20.115	48.977	57.259	79.380	140.217	58.923	37.223	23.814	17.308	18.991		27.965
31		62.207		73.363	155.995		31.639		20.258	15.829		111.895

मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/o The EXECUTIVE DIRECTOR(O&M)

R. Bhargava

Average Inflow (CuM/Sec) of Panyor Lower Hydro Power Station (PLHPS) for the year 2022-23

Date	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	156.251	79.170	53.513	168.630	175.689	78.903	52.476	80.526	30.880	22.731	16.880	27.516
2	123.826	64.019	56.503	148.923	104.914	56.089	45.150	69.437	31.575	23.499	14.891	22.423
3	93.680	56.376	51.261	110.620	109.785	81.584	34.160	65.301	30.950	21.554	17.215	20.157
4	117.724	75.695	56.632	99.957	94.844	160.408	46.157	64.166	29.836	18.642	16.371	17.441
5	145.589	57.406	64.335	91.510	93.009	174.899	70.450	66.203	30.763	19.666	17.078	18.563
6	173.175	41.221	50.763	79.870	73.483	122.355	122.474	56.043	30.352	18.965	17.526	21.214
7	93.180	38.060	44.011	74.483	73.980	99.438	103.392	56.584	29.800	18.981	17.197	34.364
8	148.912	42.654	43.763	71.516	95.602	98.209	107.335	62.219	28.902	18.626	20.921	24.686
9	100.346	45.101	75.456	63.901	70.520	86.256	126.280	58.744	28.945	18.800	23.714	21.482
10	71.224	31.531	70.841	63.534	72.331	77.811	152.572	50.556	29.101	19.518	22.037	18.375
11	87.790	42.638	79.278	71.118	69.835	72.314	133.378	51.128	28.701	19.279	19.683	20.074
12	46.545	81.441	195.870	76.305	55.380	61.283	174.357	48.829	26.006	19.366	20.316	16.869
13	45.212	74.268	89.663	70.760	58.882	67.740	98.362	48.518	25.675	18.444	21.510	20.802
14	132.611	113.356	77.448	61.678	51.778	67.316	88.702	45.109	26.536	23.221	23.088	19.008
15	90.428	144.101	154.484	64.407	60.183	63.839	77.230	44.361	24.845	26.884	18.391	18.759
16	55.092	200.205	263.589	56.281	63.813	59.542	64.658	40.582	23.761	21.733	18.197	22.734
17	45.452	213.665	298.653	50.482	58.573	58.552	65.373	44.552	25.971	20.149	17.667	21.022
18	42.150	170.551	291.328	47.192	63.017	55.117	59.667	41.435	23.716	19.864	19.787	20.825
19	37.213	137.183	208.087	48.418	84.298	53.829	63.012	41.973	26.895	20.789	17.786	23.712
20	37.787	134.096	191.535	120.052	58.575	49.512	49.718	39.070	21.677	17.959	16.945	31.722
21	29.886	149.920	145.709	89.272	54.120	46.906	48.610	38.208	23.244	18.444	18.358	47.407
22	28.581	151.625	122.062	76.749	55.515	48.054	44.994	37.872	20.948	18.894	24.294	70.681
23	40.877	128.961	114.481	65.071	64.838	90.618	44.437	38.119	24.656	21.505	36.315	69.998
24	96.650	91.991	106.560	84.718	57.085	84.467	44.293	37.169	24.850	19.280	34.135	40.555
25	49.601	82.619	79.763	81.109	67.086	158.232	363.151	33.060	25.573	20.610	26.193	43.436
26	37.156	77.882	98.971	94.349	54.479	78.658	289.383	35.460	22.228	16.860	25.223	38.310
27	34.749	67.198	79.390	77.799	47.978	64.862	185.210	34.073	23.656	22.507	22.944	32.599
28	68.373	63.396	140.193	75.006	57.002	61.402	127.332	33.404	29.769	20.182	26.163	27.715
29	37.526	67.196	177.836	64.351	107.262	54.688	110.234	32.205	28.784	18.434		34.271
30	78.450	60.772	180.666	63.354	75.350	53.710	90.792	33.060	25.321	18.777		37.251
31		56.985		128.671	61.779		77.537		26.801	17.992		41.571

मुख्य महाप्रबंधक (इं/एम्स)
Chief General Manager(E/M)
कार्यपालक निरेशक (ओ एण्ड एम) का कार्यालय
C/oThe EXECUTIVE DIRECTOR(O&M)

Average Inflow (CuM/Sec) of Panyor Lower Hydro Power Station (PLHPS) for the year 2023-24

Date	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	26.734	43.751	23.655	68.915	110.681	104.296	54.635	33.580	22.315	17.816	19.370	20.222
2	37.405	66.109	20.816	60.538	88.246	91.869	47.590	32.222	22.160	18.500	20.338	23.178
3	42.619	40.905	25.319	123.945	112.378	86.982	56.154	32.303	22.008	18.286	25.059	19.157
4	47.610	38.051	23.768	89.407	100.237	77.269	80.648	31.692	22.504	18.474	18.977	30.733
5	100.064	39.082	27.572	68.295	98.113	72.603	93.974	34.305	22.815	19.895	17.101	36.301
6	41.451	44.156	26.194	63.376	144.687	71.591	89.846	33.900	23.440	17.011	22.400	27.840
7	46.911	46.952	22.311	99.453	106.397	66.627	77.124	34.635	22.418	16.749	25.091	22.217
8	30.848	50.517	20.544	105.487	127.330	65.467	125.481	29.837	22.850	18.184	25.724	21.267
9	26.347	40.544	21.844	108.300	112.345	63.318	127.921	29.695	26.908	18.001	23.490	13.689
10	24.564	30.110	25.811	78.864	109.059	62.844	110.465	31.497	22.574	16.350	19.146	18.393
11	23.189	26.385	121.377	85.859	111.215	62.348	85.572	29.783	26.288	16.782	18.410	18.277
12	20.352	23.418	81.275	178.143	95.530	54.547	68.850	28.683	24.328	16.747	17.453	18.045
13	20.514	22.746	119.532	196.400	209.044	57.725	65.379	30.239	22.185	16.224	18.051	22.158
14	20.668	19.608	92.714	109.156	110.207	51.377	60.906	21.933	22.527	16.436	14.968	50.545
15	19.168	19.786	139.820	77.197	95.446	47.034	61.061	27.150	22.016	15.213	17.068	40.249
16	18.735	21.052	281.540	90.146	87.602	46.238	58.389	28.633	21.641	15.057	16.489	23.656
17	19.551	29.274	186.906	268.794	94.166	48.746	51.289	27.249	22.348	17.348	16.489	22.166
18	37.437	53.659	129.965	129.895	78.762	49.038	47.365	28.000	22.086	16.570	18.355	23.722
19	24.750	55.562	115.691	110.806	72.816	48.104	47.040	24.414	20.085	18.614	17.733	18.977
20	67.790	51.148	124.489	82.017	68.947	61.759	49.986	26.568	22.145	18.232	16.800	16.800
21	86.351	51.436	289.106	75.317	72.525	117.882	44.398	25.779	19.732	15.835	18.044	30.811
22	49.751	55.777	186.584	69.455	254.325	96.936	41.833	24.881	20.000	17.991	19.677	101.150
23	33.980	40.534	161.693	80.735	139.889	81.213	43.212	25.978	19.696	17.348	32.744	55.036
24	29.738	34.986	106.797	67.208	126.325	107.072	39.796	22.220	19.399	15.312	21.477	41.630
25	24.274	46.138	90.490	88.338	127.097	65.325	38.027	26.327	18.304	16.925	18.666	34.082
26	18.155	49.444	89.409	98.479	128.721	67.885	36.648	25.600	19.152	13.679	17.111	55.609
27	25.631	60.267	86.926	102.974	177.324	65.000	36.005	25.140	19.619	15.538	18.044	62.651
28	21.412	44.708	84.503	125.628	241.431	56.293	39.647	24.235	18.093	17.525	16.877	33.028
29	40.703	32.709	77.842	226.654	163.978	46.871	36.004	22.560	19.894	16.436	20.455	28.525
30	83.133	25.878	51.200	134.406	131.231	47.279	34.816	23.072	19.698	15.291		36.205
31		25.022		121.995	114.796		34.174		16.391	15.866		28.341

मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक(ओ एण्ड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(O&M)

24/05/2024.
Sr. Manager (E/M)

Average Inflow (CuM/Sec) of Kameng Hydro Power Station (KaHPS) for the year 2021-22

Date	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	0.000	33.710	67.040	289.500	436.560	434.760	130.380	78.950	58.360	43.130	36.610	36.180
2	18.860	33.710	62.030	430.740	408.690	500.690	119.370	79.230	59.100	42.600	36.610	38.500
3	14.660	33.710	67.200	317.560	271.650	322.180	133.060	87.710	58.860	41.590	36.260	36.640
4	10.100	39.130	56.570	247.560	191.160	273.960	127.010	66.930	57.650	42.610	36.630	38.400
5	10.050	65.860	66.870	281.310	167.990	315.420	320.880	69.040	56.150	41.260	45.130	38.610
6	18.580	77.300	92.280	301.440	149.910	452.090	211.250	83.690	56.470	40.600	41.850	36.730
7	18.170	60.860	132.790	444.390	140.720	371.750	186.740	73.830	54.130	39.980	40.740	44.930
8	0.000	66.350	200.520	581.320	197.940	322.980	169.720	69.390	52.940	40.230	37.940	46.190
9	0.000	75.400	117.280	357.360	212.030	561.070	129.120	68.130	52.410	40.110	37.130	49.300
10	30.790	56.090	111.880	580.870	214.430	476.300	120.930	66.670	51.230	40.180	36.780	48.000
11	31.120	71.900	87.050	460.080	257.460	355.480	103.920	66.660	51.810	39.930	36.590	53.390
12	29.970	79.940	96.590	486.050	261.790	305.980	100.700	66.290	52.070	39.470	36.590	51.910
13	31.330	85.610	154.690	383.560	232.860	281.770	100.140	66.490	51.380	41.020	36.010	48.890
14	28.850	74.530	103.750	365.750	265.660	237.820	101.480	64.680	50.500	40.850	36.510	49.640
15	32.090	56.090	104.950	474.000	414.370	272.870	99.210	65.120	49.960	40.050	36.030	55.470
16	32.500	50.580	112.210	490.100	513.260	253.140	99.390	65.260	50.180	39.200	36.140	49.440
17	32.500	51.920	128.820	572.300	501.650	265.900	129.230	63.450	38.490	37.820	35.620	46.060
18	35.160	65.020	169.050	445.110	501.170	348.690	138.710	62.550	28.790	38.220	35.430	51.820
19	40.270	56.920	181.710	438.140	624.400	231.710	298.110	61.790	23.630	37.640	36.430	57.000
20	34.570	51.930	160.950	476.840	779.110	193.700	354.330	61.060	41.420	36.620	35.030	52.990
21	0.000	45.130	155.440	387.000	552.700	180.810	263.660	60.270	44.700	37.200	36.220	52.330
22	31.850	50.930	128.280	324.390	418.520	181.230	210.240	61.490	44.200	38.400	34.940	52.270
23	30.630	40.690	181.060	316.440	375.320	203.490	185.150	65.300	45.020	38.640	34.980	48.510
24	30.630	39.480	118.930	314.370	349.150	228.600	134.500	69.550	41.720	38.010	34.300	51.450
25	31.980	49.480	110.480	292.950	630.950	221.210	128.470	70.960	43.460	36.930	34.020	45.930
26	28.850	52.090	117.480	403.480	618.690	182.900	127.370	69.510	43.090	37.040	35.180	41.680
27	29.150	590.900	115.670	394.100	927.590	192.210	124.120	66.240	42.690	36.770	35.000	42.240
28	30.250	168.680	150.360	333.710	618.980	239.850	123.090	62.130	42.950	36.760	35.970	43.830
29	35.600	73.170	216.560	402.160	433.870	202.510	90.080	58.800	43.150	36.750		52.300
30	32.380	67.900	319.870	393.000	446.030	189.620	96.640	56.790	46.840	36.180		51.290
31		84.920		351.110	427.320		97.210		46.100	35.760		51.110

मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(EiM)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/o The EXECUTIVE DIRECTOR(O&M)

R. Bhuyan

Average Inflow (CuM/Sec) of Kameng Hydro Power Station (KaHPS) for the year 2022-23

Date	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
1	55.310	120.990	136.020	480.140	525.560	214.450	130.700	92.800	59.120	46.060	41.450	36.930
2	60.980	54.450	89.340	310.380	486.460	221.940	122.460	89.420	58.940	45.830	39.410	35.760
3	60.160	50.790	108.430	219.570	481.410	168.210	114.340	96.950	58.240	45.140	39.000	34.920
4	65.920	108.490	152.600	166.920	371.520	170.800	116.750	92.690	57.530	44.940	39.000	36.240
5	57.490	82.420	160.300	164.460	352.100	173.950	184.270	89.950	57.370	44.940	38.590	35.190
6	46.850	51.580	123.060	151.890	432.890	193.290	165.920	87.720	56.270	44.600	37.750	35.610
7	176.620	58.640	189.830	119.020	322.590	365.750	137.920	76.420	55.960	43.260	38.180	38.660
8	187.060	69.560	226.070	130.920	304.010	422.160	129.470	74.440	56.390	43.600	41.980	37.970
9	101.420	50.550	216.130	152.370	237.870	272.810	123.840	82.840	55.480	42.950	38.580	38.410
10	92.200	50.830	176.940	141.240	269.030	189.800	140.180	80.130	54.920	42.060	39.680	36.750
11	171.530	51.700	256.930	136.720	235.140	168.380	128.280	79.250	54.920	42.470	39.620	36.530
12	173.570	54.010	181.270	144.580	167.740	164.210	123.700	77.610	54.210	41.860	42.830	36.330
13	156.560	59.510	168.010	152.750	156.100	168.670	127.630	67.470	53.460	42.160	41.240	37.560
14	138.960	78.600	232.020	169.880	201.130	164.740	110.870	75.390	53.060	33.450	39.010	35.720
15	144.300	56.020	246.140	135.800	283.400	160.550	104.710	73.540	52.260	34.420	38.700	36.300
16	80.950	106.490	263.730	115.790	201.590	204.500	96.940	71.810	52.470	41.960	36.660	38.400
17	85.830	108.370	253.000	105.440	177.660	223.660	92.160	71.810	52.050	42.330	38.530	35.310
18	104.550	85.620	212.920	102.290	161.280	160.760	89.450	71.450	50.670	41.270	37.200	37.510
19	93.130	63.950	117.360	129.420	188.920	140.420	84.330	69.180	50.820	40.810	38.720	49.170
20	107.680	120.290	218.470	342.150	198.940	124.160	72.910	67.800	50.670	40.650	37.940	47.000
21	82.570	218.920	390.790	252.020	155.390	126.220	70.750	66.630	50.150	40.440	37.200	69.780
22	111.350	177.200	279.670	432.940	140.880	129.180	78.760	66.630	50.130	40.460	42.840	70.720
23	117.870	121.040	229.860	237.570	143.180	125.280	76.440	64.970	49.470	40.210	42.560	59.990
24	125.390	88.870	357.520	243.860	132.020	156.240	83.430	63.950	48.340	40.820	37.530	52.950
25	105.910	76.040	415.310	217.250	130.770	189.630	734.580	63.210	48.730	39.610	38.910	61.120
26	82.020	80.990	301.520	267.280	119.890	157.320	317.740	61.510	48.000	40.440	39.690	56.350
27	78.740	82.670	259.350	428.310	154.990	143.390	161.340	62.080	47.730	39.930	36.870	45.620
28	80.630	92.820	384.620	349.820	149.950	162.990	140.070	60.280	48.680	40.160	37.350	42.020
29	93.490	80.710	495.150	346.390	201.000	255.800	125.510	59.710	48.390	39.240		40.980
30	101.940	70.440	471.870	397.000	196.100	147.880	113.440	58.860	47.130	40.550		40.560
31		90.600		482.980	159.600		109.240		46.480	40.300		40.800

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मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(O&M)

R. Murugan

Average Inflow (CuM/Sec) of Kameng Hydro Power Station (KaHPS) for the year 2023-24

Date	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	42.040	72.250	43.030	156.250	184.730	266.860	128.320	64.130	45.500	36.440	33.470	38.010
2	45.460	63.170	42.450	185.860	170.440	250.960	134.290	63.520	45.710	36.450	32.450	39.650
3	43.720	50.890	42.600	168.010	285.910	210.250	115.230	63.300	44.920	36.510	32.440	36.360
4	43.260	47.970	41.600	196.890	432.560	188.070	133.930	62.820	44.360	36.650	32.690	37.610
5	48.270	51.030	41.430	185.230	363.640	185.410	141.740	62.280	43.840	36.520	32.550	39.930
6	44.900	47.780	42.620	160.400	256.980	172.220	140.510	61.250	44.130	35.430	32.930	40.100
7	42.940	49.750	43.420	174.610	327.080	173.160	161.990	60.200	42.980	35.730	34.170	41.740
8	42.460	52.970	40.750	213.130	364.360	143.670	135.560	58.660	43.820	35.470	34.450	41.830
9	40.410	47.530	47.850	213.400	301.840	144.990	133.470	57.700	43.040	34.150	33.870	40.810
10	42.060	45.400	57.390	266.290	310.880	149.920	132.640	58.770	43.180	34.770	34.890	41.070
11	45.830	42.180	137.440	272.430	264.100	183.920	113.360	57.030	45.300	34.180	34.390	41.860
12	41.980	40.480	103.890	197.670	255.930	279.090	104.830	56.280	42.580	34.040	32.400	39.080
13	41.110	38.830	116.970	184.850	608.020	197.480	104.140	54.930	42.920	33.780	29.710	35.760
14	42.570	39.070	114.590	218.890	353.800	156.330	98.360	53.770	42.170	33.620	30.450	41.170
15	45.980	38.340	126.870	244.210	372.540	156.510	112.010	52.700	41.110	33.240	29.990	38.140
16	49.210	47.770	106.860	331.110	372.100	155.330	111.700	52.270	40.120	32.510	32.090	33.770
17	49.540	48.550	97.620	373.910	287.540	132.200	94.490	52.520	39.710	33.480	36.180	33.890
18	45.790	60.060	117.940	245.220	318.600	134.100	89.370	52.280	39.400	35.020	36.180	35.740
19	49.870	82.250	122.740	164.530	270.090	121.330	87.120	51.010	37.700	35.060	37.370	34.190
20	56.780	83.600	155.470	163.430	247.410	158.690	84.800	50.320	38.330	33.830	36.030	34.010
21	58.310	54.340	158.530	165.400	299.760	256.910	81.290	49.840	38.320	34.110	33.370	44.660
22	52.210	48.030	158.990	260.630	517.650	205.940	78.380	50.280	38.520	33.610	37.250	108.940
23	46.720	48.220	142.210	219.160	407.550	146.220	76.620	50.430	38.420	33.240	36.500	66.750
24	42.620	45.520	111.480	263.100	377.950	132.350	74.980	48.710	37.020	32.730	34.760	78.190
25	41.420	48.480	82.340	194.120	405.880	133.420	73.350	47.950	38.490	32.650	32.740	66.840
26	45.650	72.830	111.960	211.300	389.120	148.040	71.960	48.130	37.460	33.950	32.000	77.450
27	44.240	85.280	86.390	198.890	385.020	173.420	70.820	47.320	37.310	33.930	32.120	59.000
28	44.390	65.570	85.740	216.510	361.480	139.550	70.880	47.440	36.950	32.840	31.230	54.920
29	57.050	55.050	141.830	269.440	343.730	100.850	69.090	46.260	35.560	32.090	33.460	46.870
30	78.210	47.990	139.490	254.210	307.580	105.270	67.220	45.540	36.270	32.450		46.190
31		44.330		273.560	354.460		66.050		35.620	32.490		48.780

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मुख्य महाप्रबंधक (ई/एम)
Chief General Manager(E/M)
कार्यपालक निदेशक (ओ एण्ड एम) का कार्यालय
O/oThe EXECUTIVE DIRECTOR(O&M)

24/05/2024
R. Bhuyan
Sr. M(E/M)

ANNEXURE - III

Customized Rainfall Information System (CRIS)

Hydromet Division

India Meteorological Department

Ministry Of Earth Sciences

New Delhi-110 003

Choose State/UT: ARUNACHAL PRADI ▾ District Name: WEST KAMENG ▾ GO

District : WEST KAMENG

Note: (1) The District Rainfall in millimeters (R/F) shown below are the arithmetic averages of Rainfall of Stations under the District.

(2) % Dep. are the Departures of rainfall from the long period averages of rainfall for the District.

(3) Blank fields under no availability of Data.

YEAR	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2018	0.0	-100	12.8	-71	35.7	-39	110.1	-18	208.5	-39	353.3	-47	379.7	-49	280.7	-34	215.4	-56	112.2	-52	9.2	-77	16.0	-41
2019	1.5	-94	20.7	-37	36.0	-23	104.6	-21	189.7	-27	190.1	-60	492.4	-7	191.6	-56	250.0	-29	109.6	-39	4.0	-87	2.8	-85
2020	18.6	-25	29.9	-8	16.2	-65	146.1	11	394.6	52	296.9	-38	442.8	-16	325.0	-25	343.2	-3	139.3	-23	15.2	-50	4.2	-78
2021	26.5	10	2.5	-92	25.3	-46	30.4	-77	220.2	-15	248.2	-48	413.2	-22	346.7	-20	225.6	-36	134.0	-26	9.2	-70	9.0	-52
2022	16.1	-20%	41.2	49%	6.5	-86%	104.7	-19%	232.0	-12%	545.0	20%	256.6	-50%	230.3	-45%	235.2	-26%	348.9	113%	0.3	-99%	1.2	-93%

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Best viewed resolutions 1280 X 800 to 1920 X 1080

Developed By: NeGD | Government

Disclaimer

Customized Rainfall Information System
(CRIS)
Hydromet Division
India Meteorological Department
Ministry Of Earth Sciences
New Delhi-11 003

Check for the State/UT : NAGALAND Select District : WOKHA GO

District : WOKHA

Note: (1) The District Rainfall in millimeters (R/F) shown below are the arithmetic averages of Rainfall of Stations under the District.
(2) % Dep. are the Departures of rainfall from the long period averages of rainfall for the District.
(3) Blank Spaces show non-availability of Data

YEAR	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2018	5.0	-75	1.0	-98	0.0	-100					188.5	-55	600.8	21	304.8	-36	175.0	-37	15.8	-88	6.7	-88	33.8	105
2019	6.0	-66	13.7	-63	30.2	-50	100.1	-26	84.1	-63	59.3	-82	313.5	-27	224.8	-44	293.0	-3	191.9	46	19.0	-4	5.5	-60
2020	24.5	37	22.5	-40	30.9	-49	86.1	-36	145.8	-37	236.3	-29	271.0	-37	83.2	-79	121.1	-60	140.0	7	28.6	44	0.2	-99
2021	2.9	-84	6.7	-82	30.9	-49	30.9	-77	147.2	-36	219.9	-34	311.2	-27	341.2	-16	295.4	-2	83.4	-36	0.0	-100	27.7	101
2022	48.2	199%	38.2	67%	7.3	-85%	231.0	76%	277.0	35%	373.5	25%	307.5	-14%	160.6	-51%	225.3	-14%	145.2	10%	0.0	-100%	7.0	-38%

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Best viewed resolutions 1280 X 800 to 1920 X 1080

Developed By: eGIS | Environment

Disclaimer

Customized Rainfall Information System
(CRIS)
Hydromet Division
India Meteorological Department
Ministry Of Earth Sciences
New Delhi-110 003

Choose the States/UTs: NAGALAND | Select District: ZUNHEBOTO | GO

District : ZUNHEBOTO

Note :(1) The District Rainfall in millimeters (R/F) shown below are the arithmatic averages of Rainfall of Stations under the District.
(2) % Dep. are the Departures of rainfall from the long period averages of rainfall for the District.
(3) Blank Spaces show non-availability of Data

YEAR	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2018											165.0	-53	447.0	1	220.0	-38	184.0	-24	64.0	-48	0.0	-100	29.0	171
2019	12.0	-49	17.0	-36	26.0	-60	144.0	-19	107.0	-53	393.0	12	232.0	-47	182.0	-48			133.6	9	49.0	18	3.0	-73
2020	31.0	31	21.0	-21	32.0	-51	86.5	-51	188.4	-16	471.7	35	338.0	-23	361.0	2	167.4	-31	254.5	108	54.6	32	0.0	-100
2021	1.0	-96	1.1	-96	1.2	-98	48.5	-73	136.9	-39	308.5	-12	275.8	-38	336.3	-5	124.5	-49	74.4	-39	0.0	-100	36.1	228
2022	46.3	174%	49.2	465%	13.3	-56%	195.2	118%	324.2	85%	328.7	9%	442.4	52%	385.1	43%	301.2	39%	179.9	132%	0.0	-100%	24.3	262%

Customized Rainfall Information System
(CRIS)
Hydromet Division
India Meteorological Department
Ministry Of Earth Sciences
New Delhi-110 003

Choose the State(s) : MIZORAM Select District : KOLASIB GO

District : KOLASIB

Note : (1) The District Rainfall in millimeters (R/F) shown below are the arithmetic averages of Rainfall of Stations under the District.
(2) % Dep. are the Departures of rainfall from the long period averages of rainfall for the District.
(3) Blank Statistics show non-availability of Data.

YEAR	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2018											610.8	40	420.0	-3	579.5	28	128.8	-65	64.0	-71	13.4	-73	7.6	-41
2019	1.0	-88	3.1	-91					424.4	24	395.7	-16	466.0	4	597.5	22	426.5	16	117.4	-44	59.8	83	0.0	-100
2020	49.9	487	3.7	-89	0.1	-99	85.0	-59	259.3	-24	319.7	-32	396.4	-11	343.5	-30	224.6	-39	312.8	48	66.6	104	0.0	-100
2021	5.4	-36	0.0	-100	74.3	-20	61.4	-71	161.5	-53	379.5	-18	459.9	3	465.0	-5	375.2	2	108.2	-49	4.7	-86	106.5	629
2022	17.1	104%	21.3	-29%	10.8	-87%	126.3	-38%	540.4	49%	463.2	9%	675.1	51%	424.6	-14%	285.2	-24%	176.2	-13%	2.5	-92%	13.0	10%

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Best viewed resolutions 1280 X 800 to 1920 X 1080

Developed By: ILMPS | Environment

Disclaimer

Customized Rainfall Information System (CRIS)

Hydromet Division
India Meteorological Department
Ministry Of Earth Sciences
New Delhi-110 003

Choose the State/UTs: ARUNACHAL PRADI Select District: LOWER SUBANSIRI GO

District : LOWER SUBANSIRI

Note : (1) The District Rainfall in millimeters (R/F) shown below are the arithmatic averages of Rainfall of Stations under the District.
(2) % Dep. are the Departures of rainfall from the long period averages of rainfall for the District.
(3) Blank Spaces show non-availability of Data

YEAR	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2018																								
2019							64.9	-60	209.4	6	99.6	-55	313.4	47	144.2	-33	272.0	83	47.3	-29	21.8	-36	14.0	-22
2020	25.2	-63	53.2	-31	47.3	-42	89.8	-44	317.8	61	119.2	-46	210.4	-2	56.2	-74	109.8	-26	59.4	-11	5.2	-85	5.8	-68
2021	31.7	-54	15.1	-80	78.7	-3	121.2	-25	181.5	-8	134.6	-39	111.0	-48	149.2	-31	80.6	-46	25.2	-62	12.7	-63	4.7	-74
2022	7.4	-89%	75.4	-2%	40.9	-48%	170.5	10%	165.9	-17%	170.1	-4%	51.0	-77%	65.4	-69%	46.6	-66%	79.2	21%	1.6	-95%	7.2	-63%

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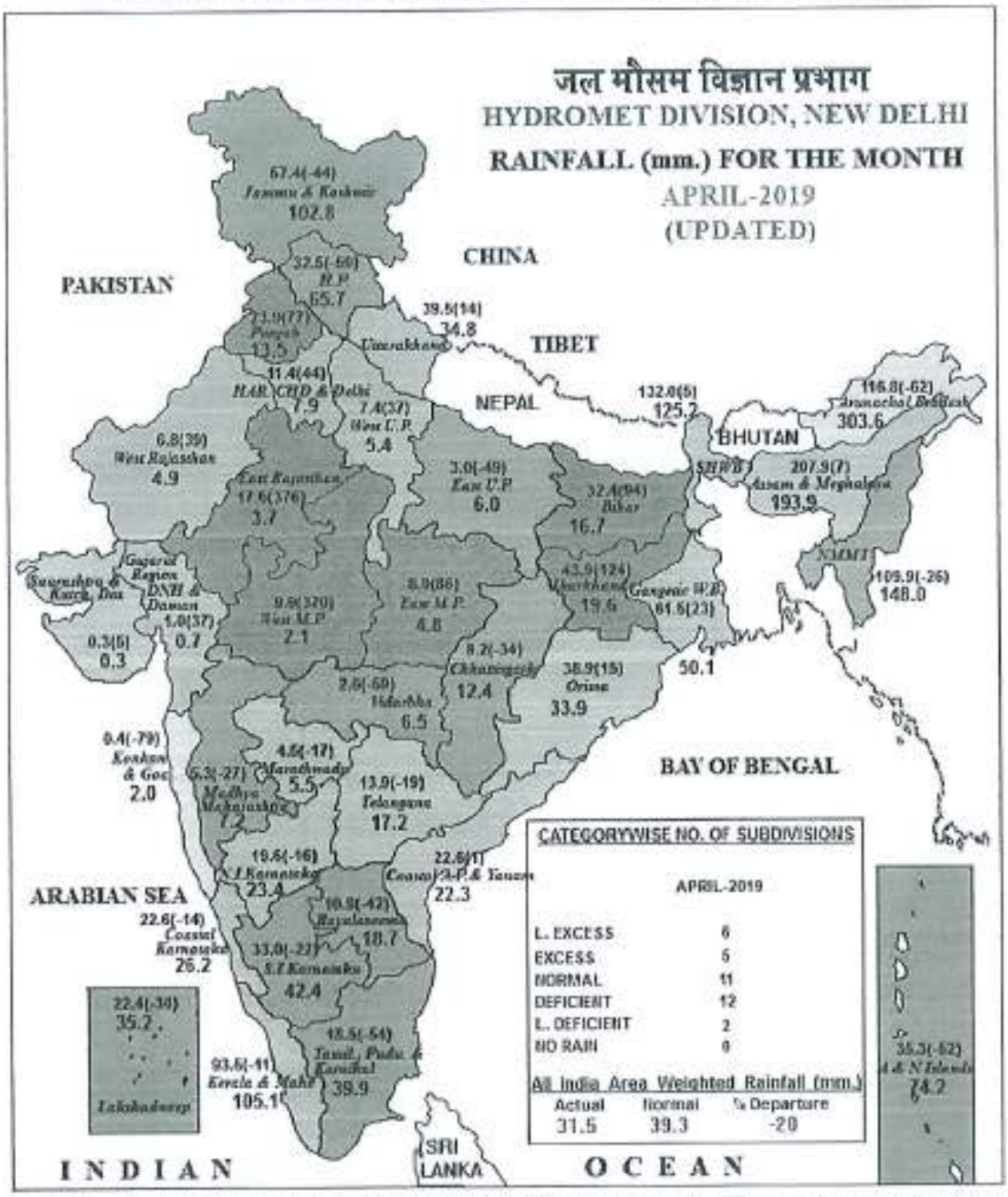
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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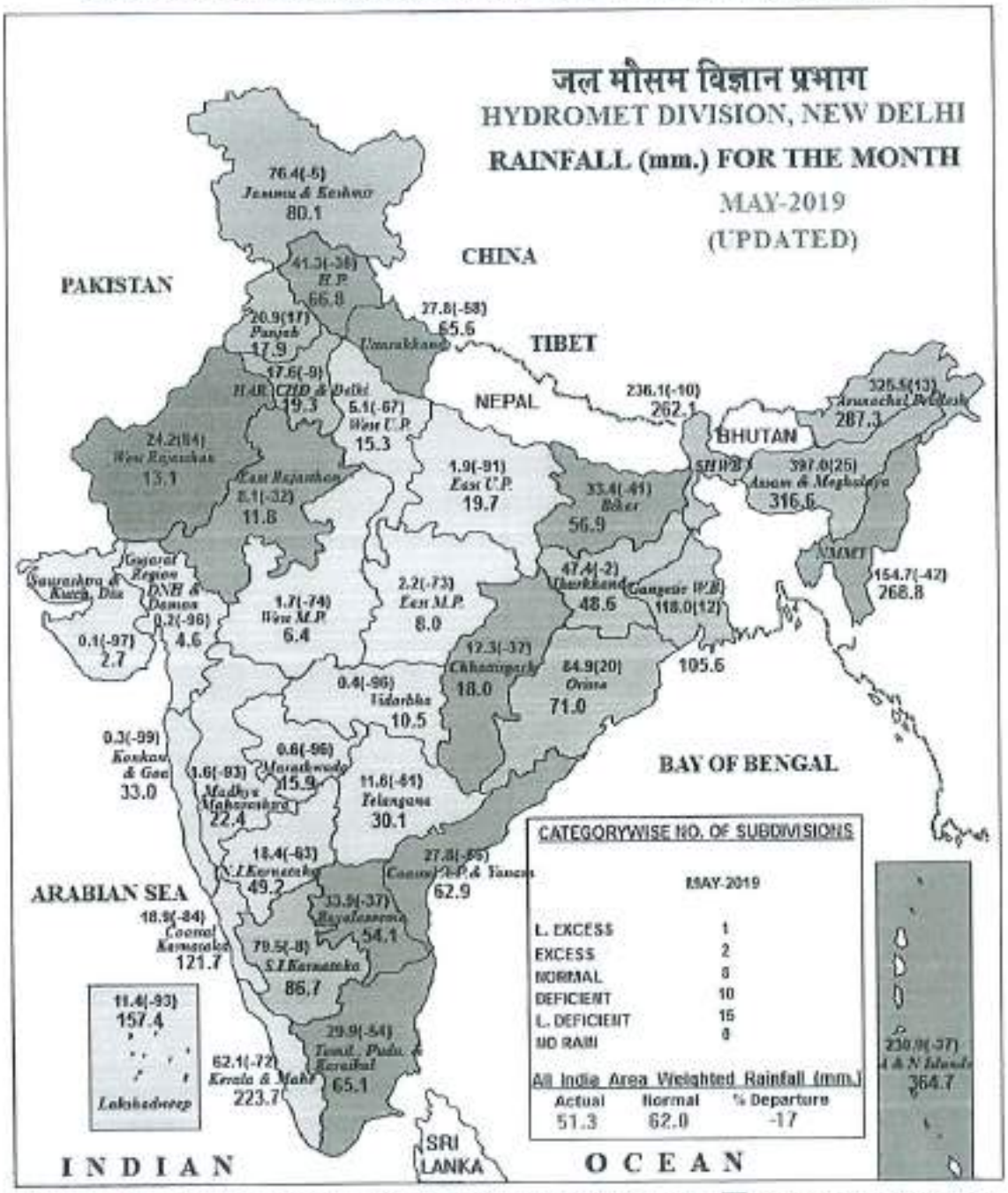

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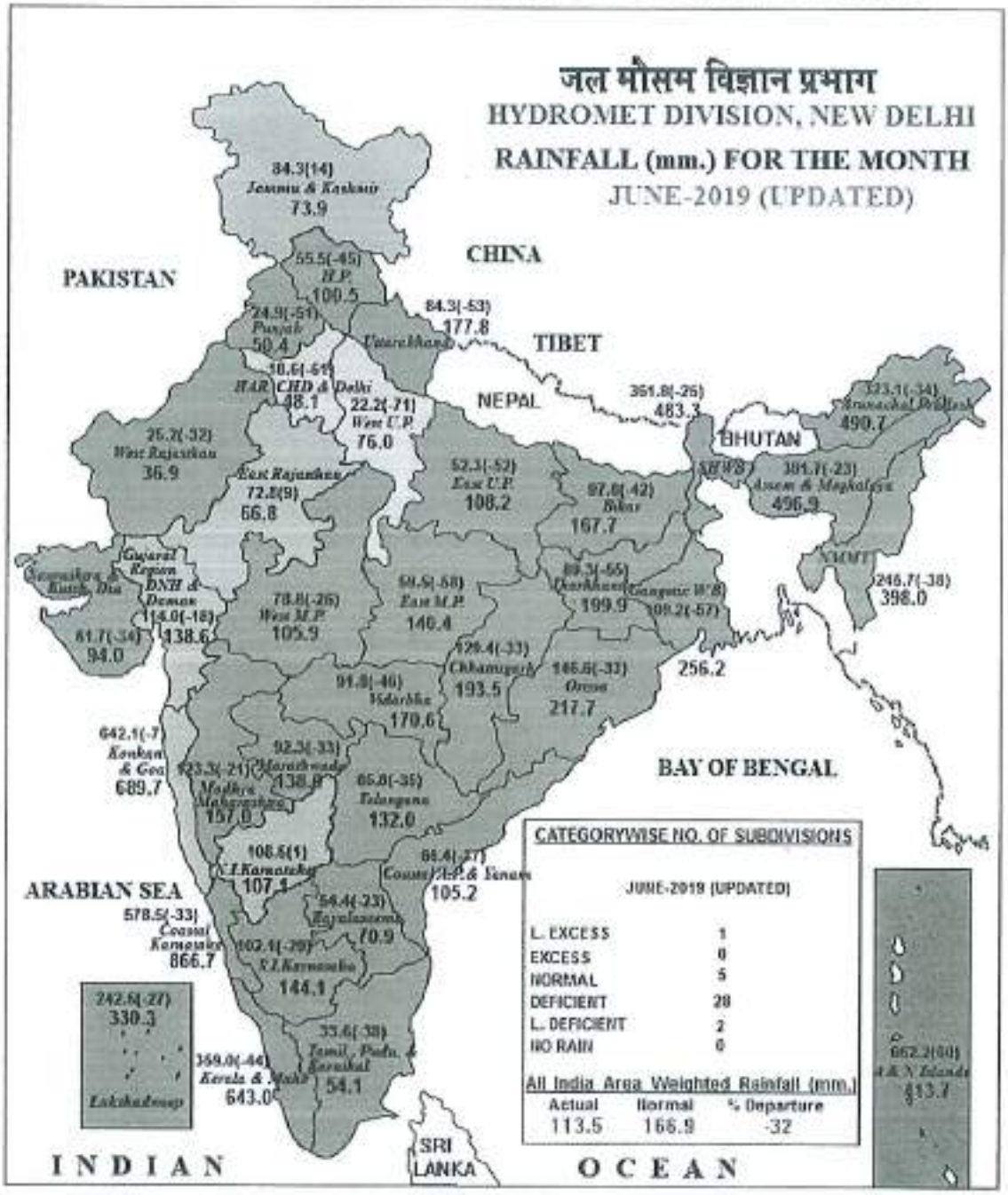

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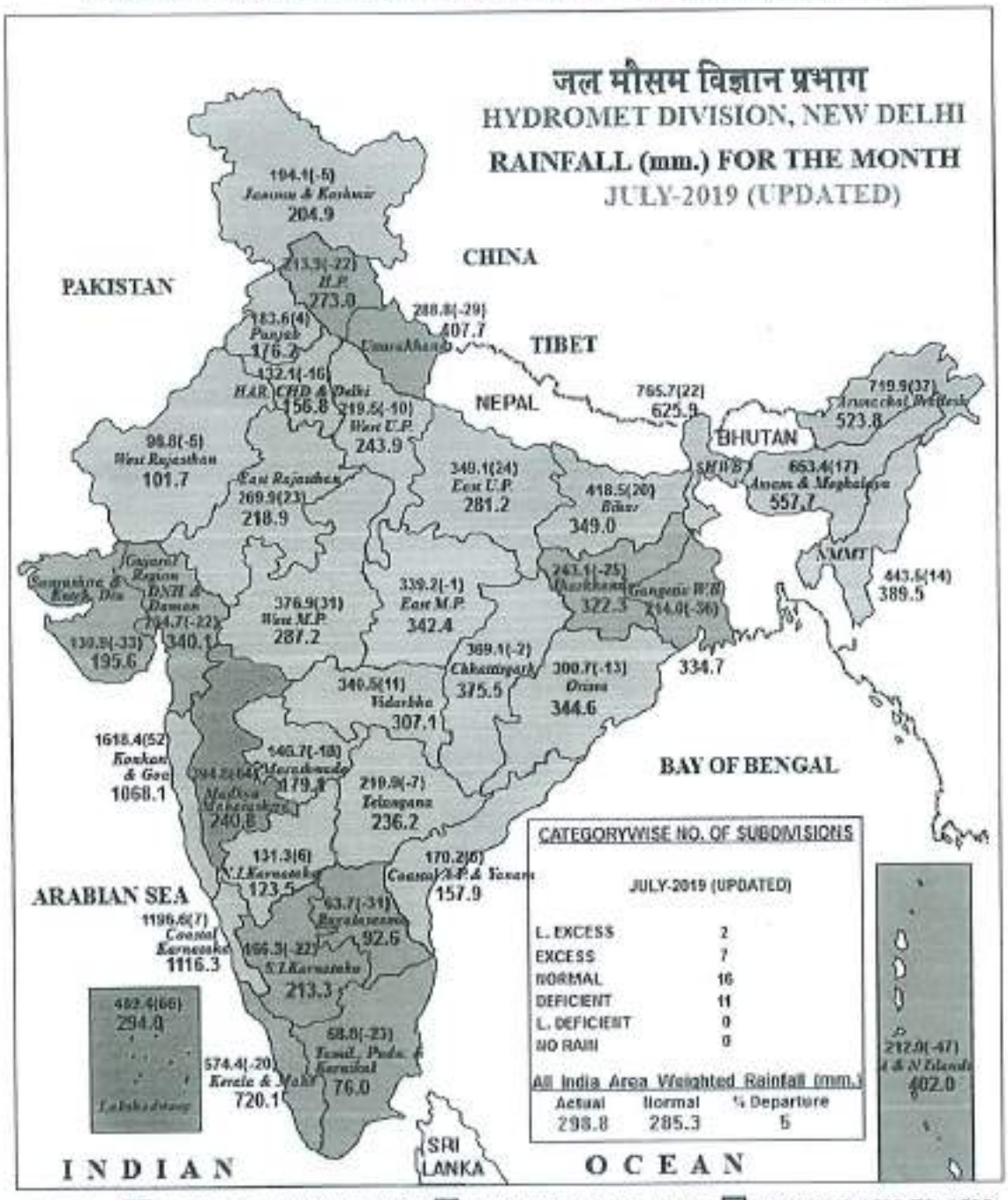

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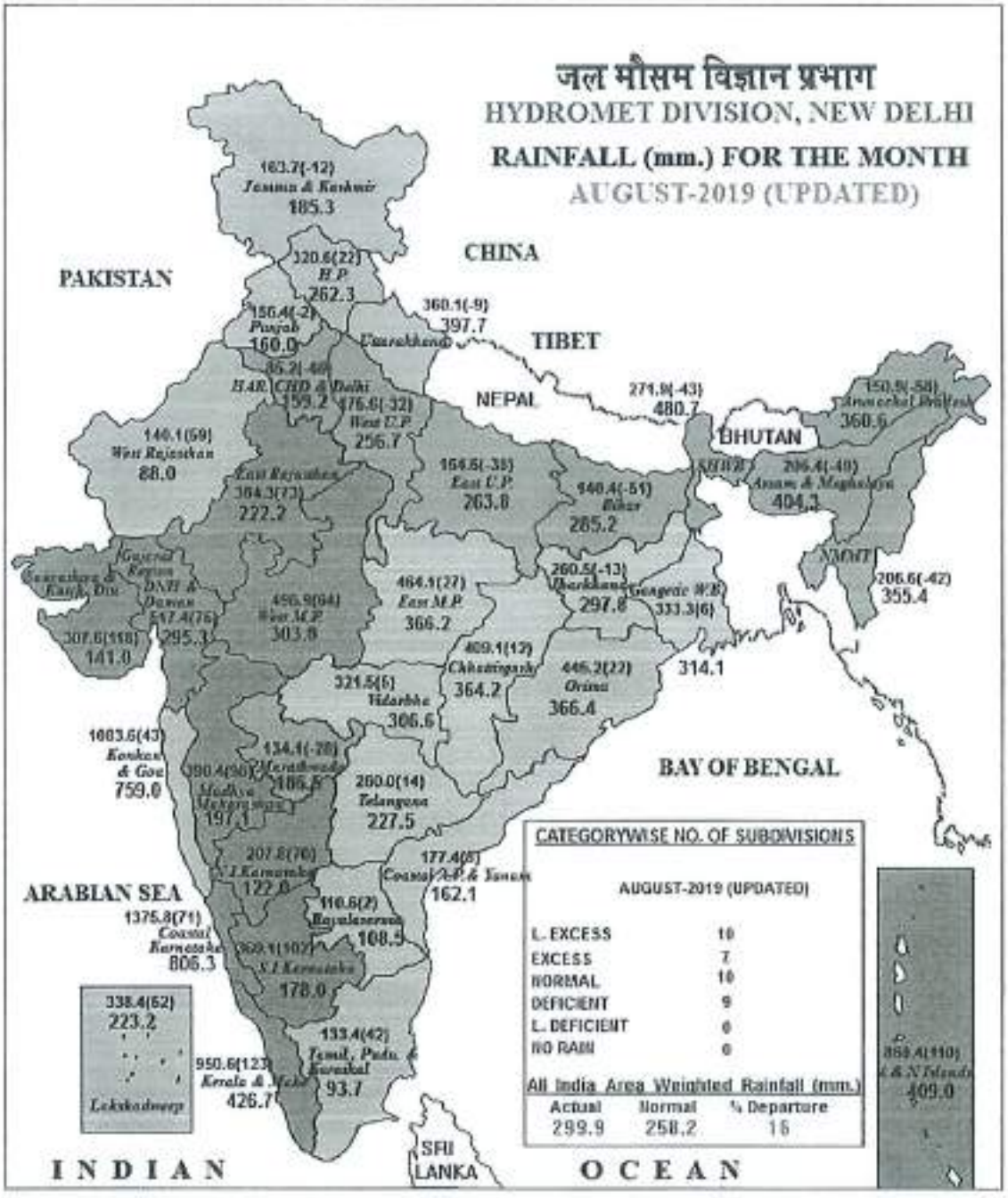

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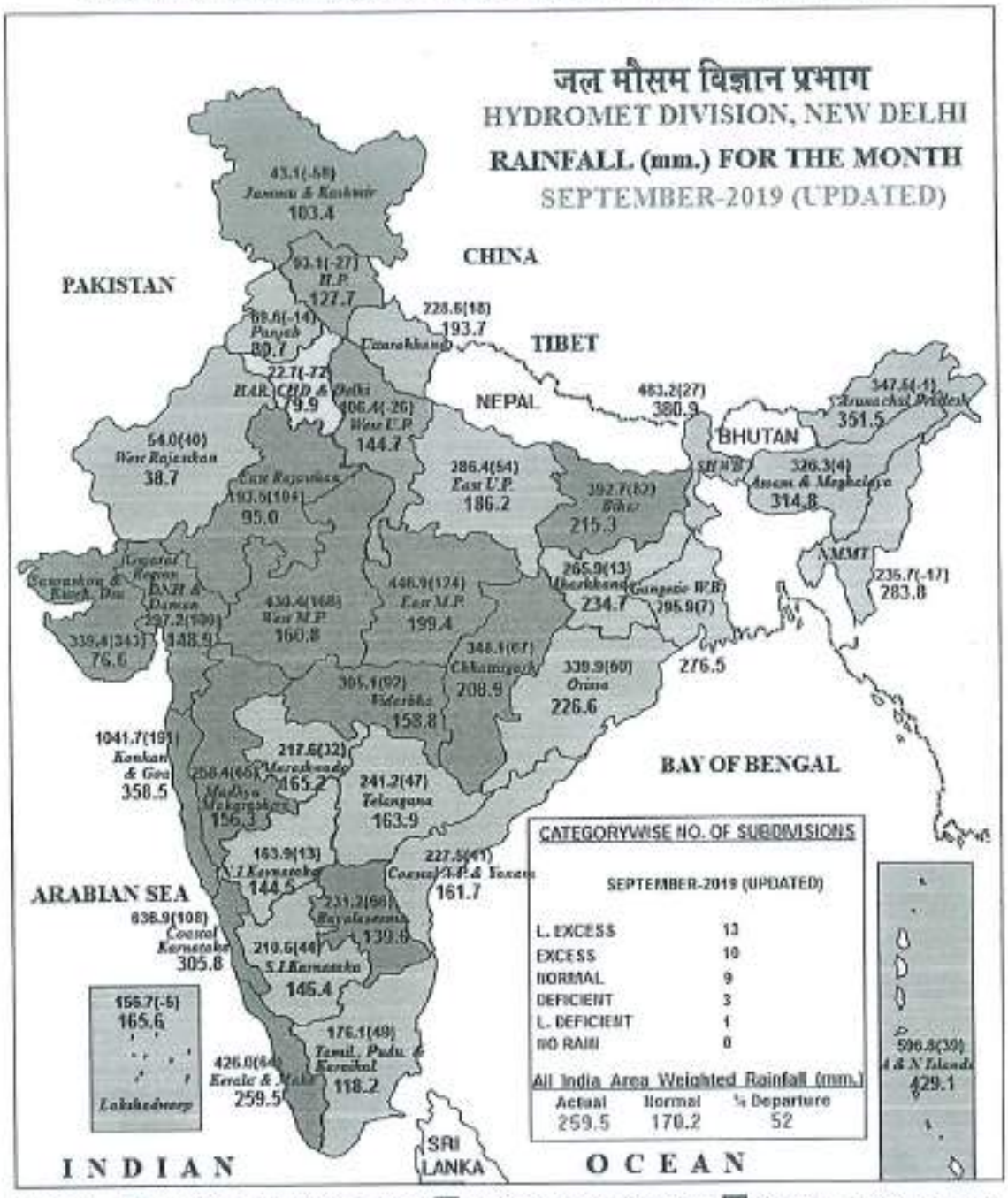

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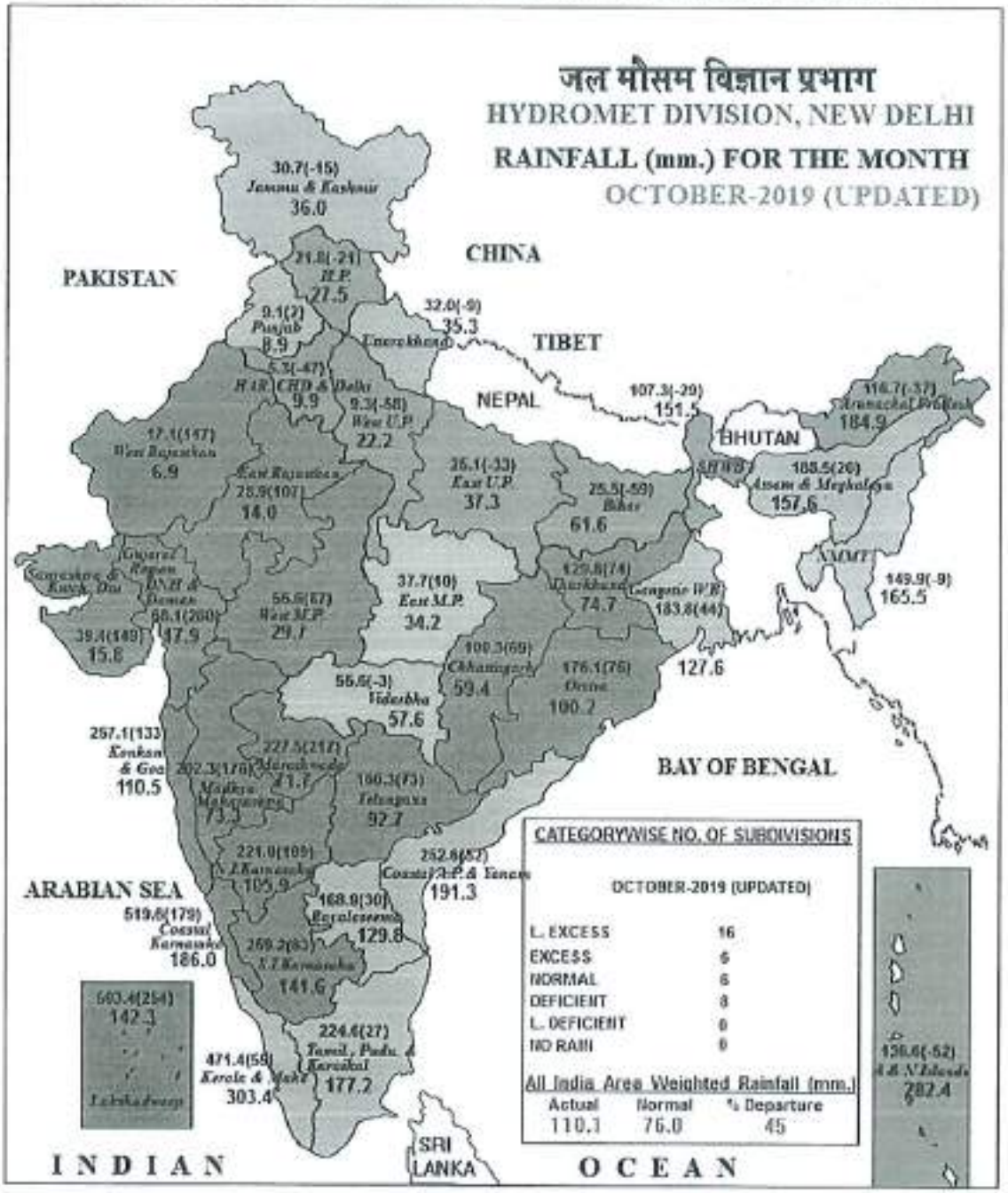

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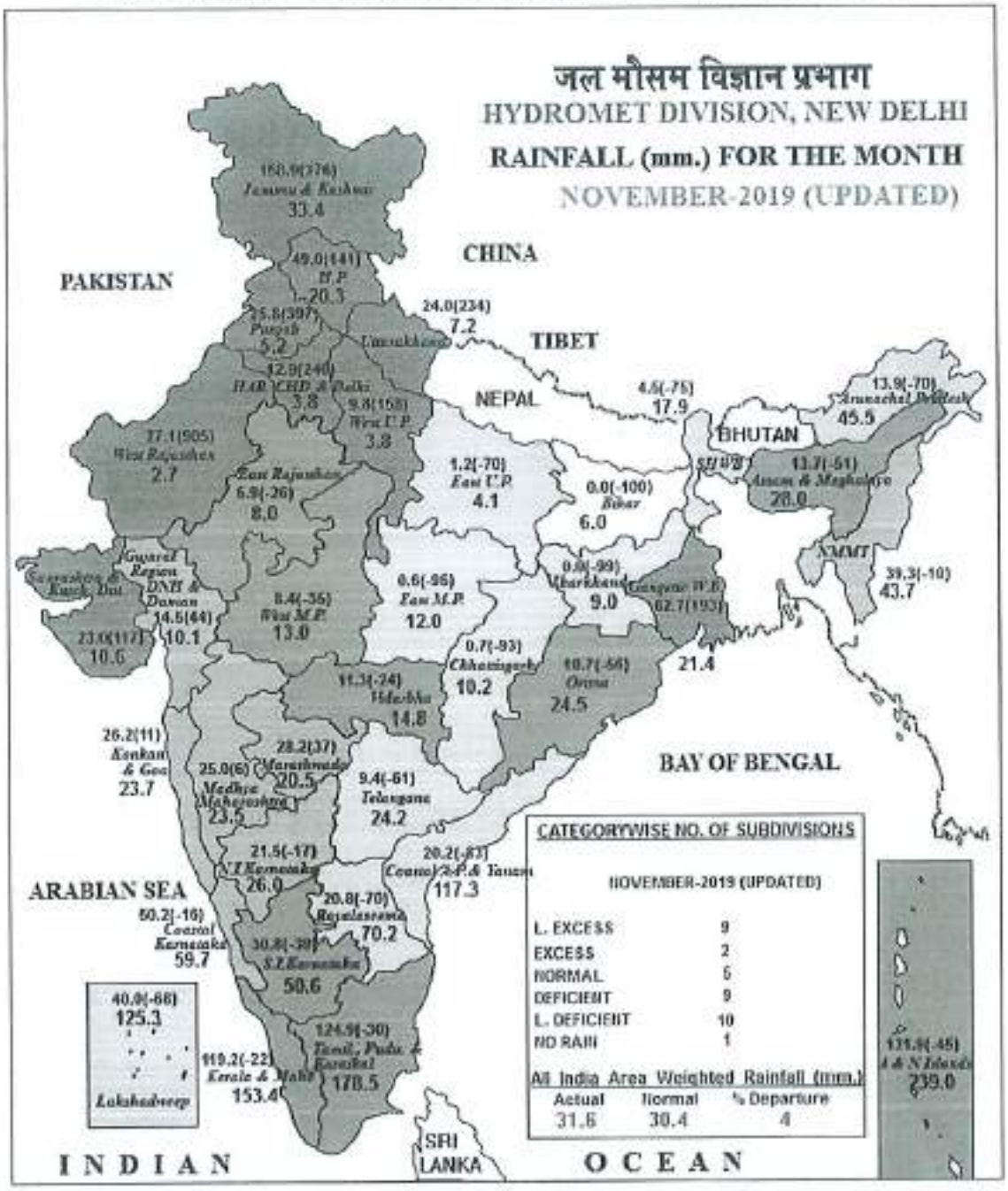

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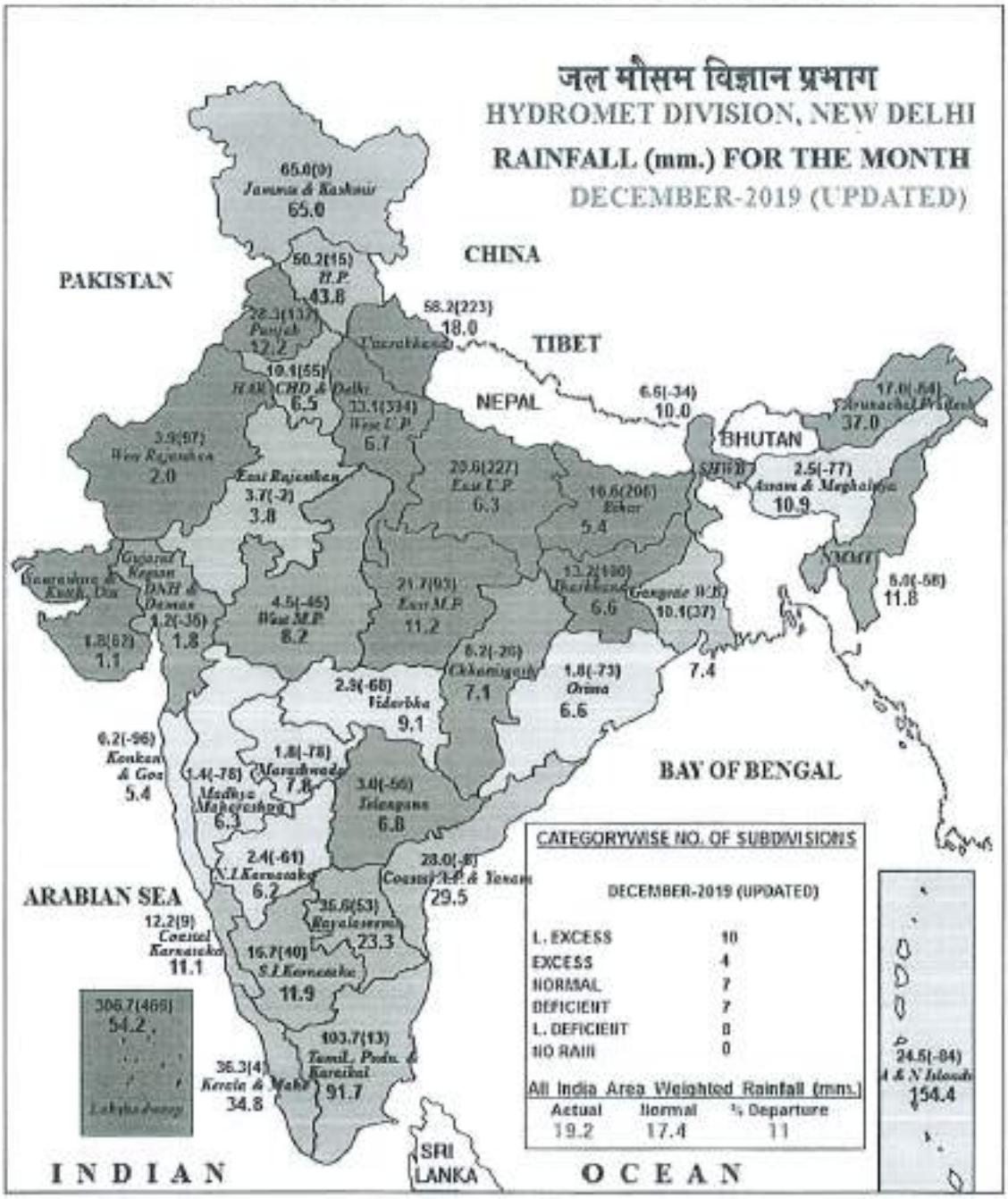

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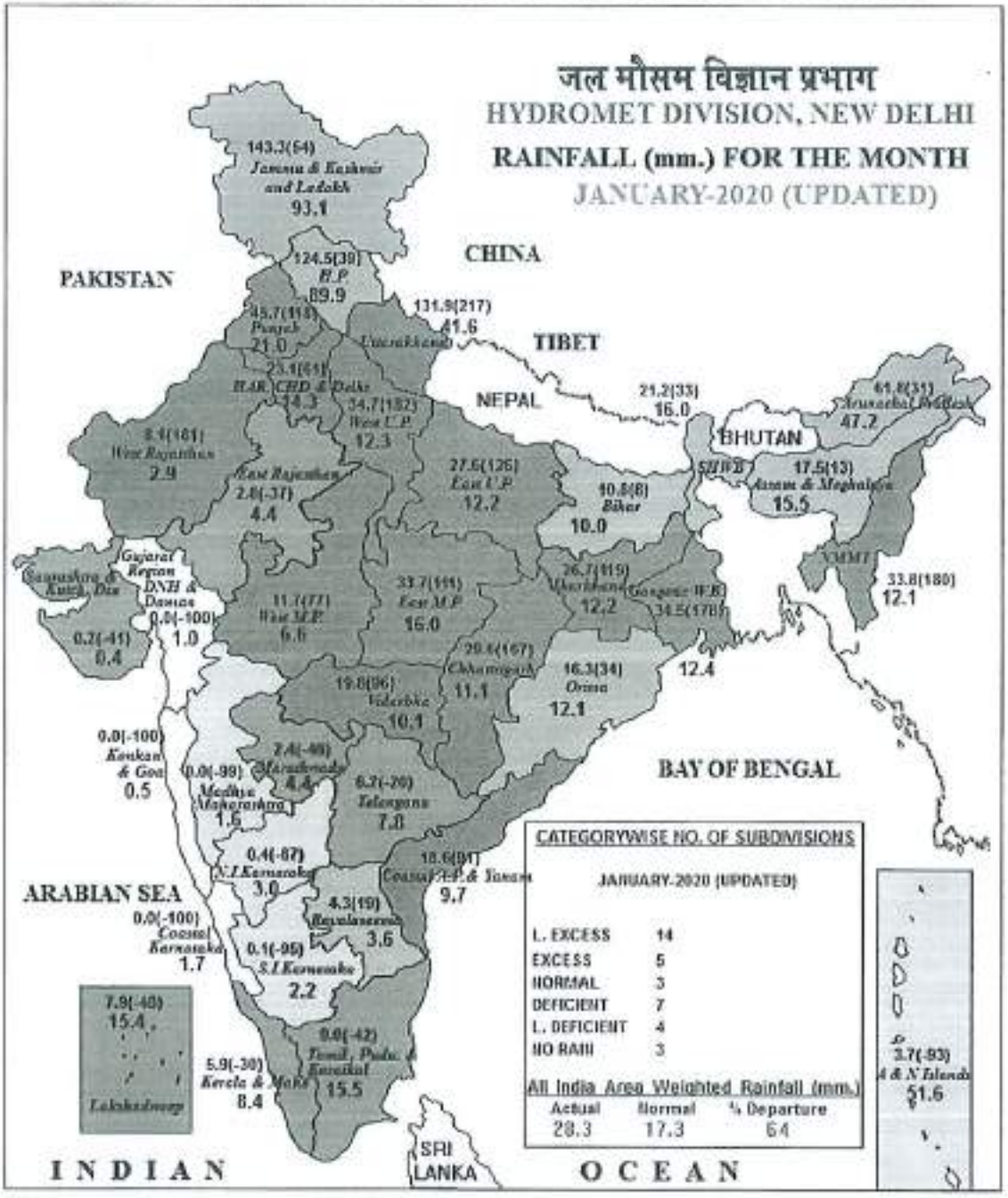

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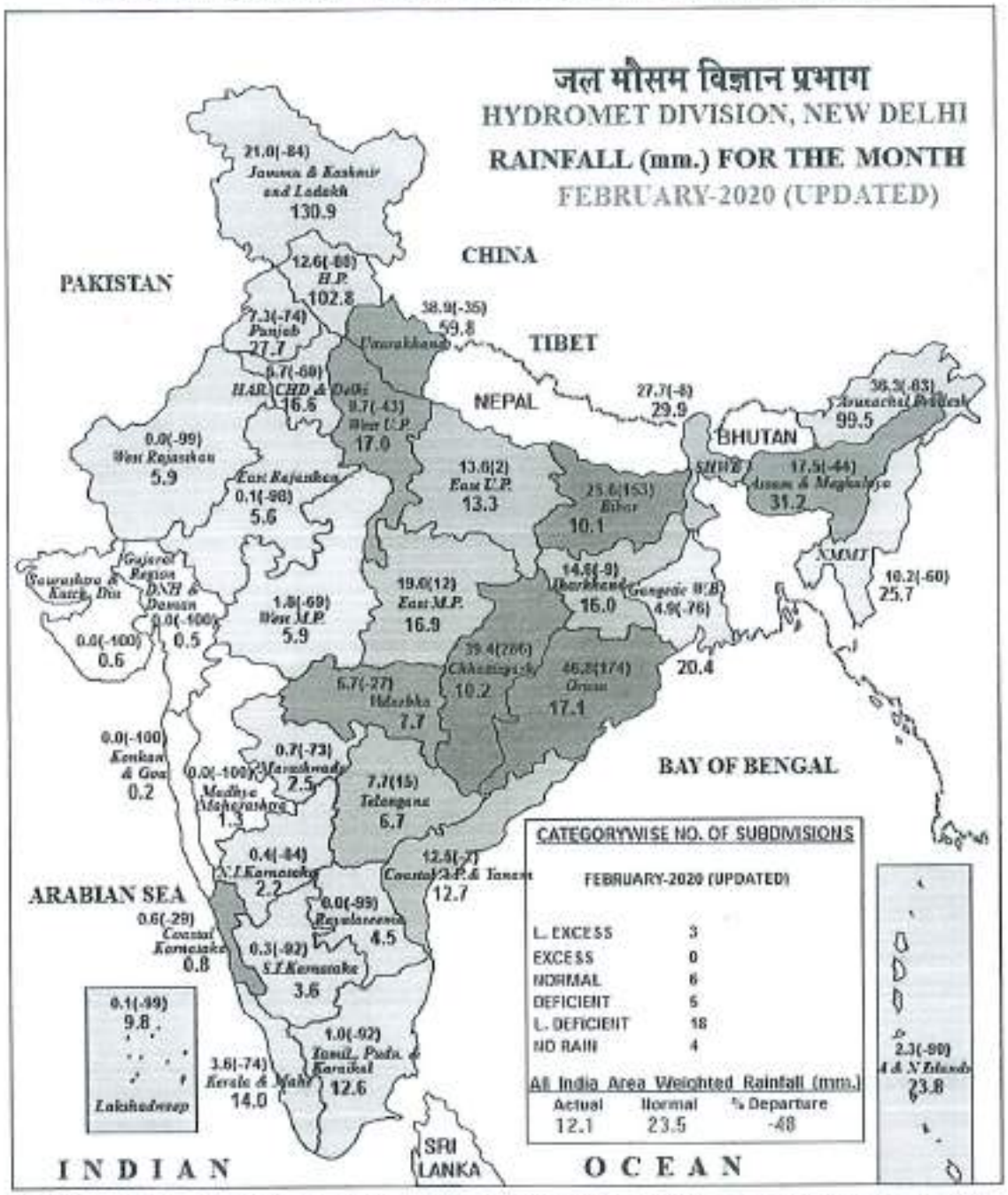

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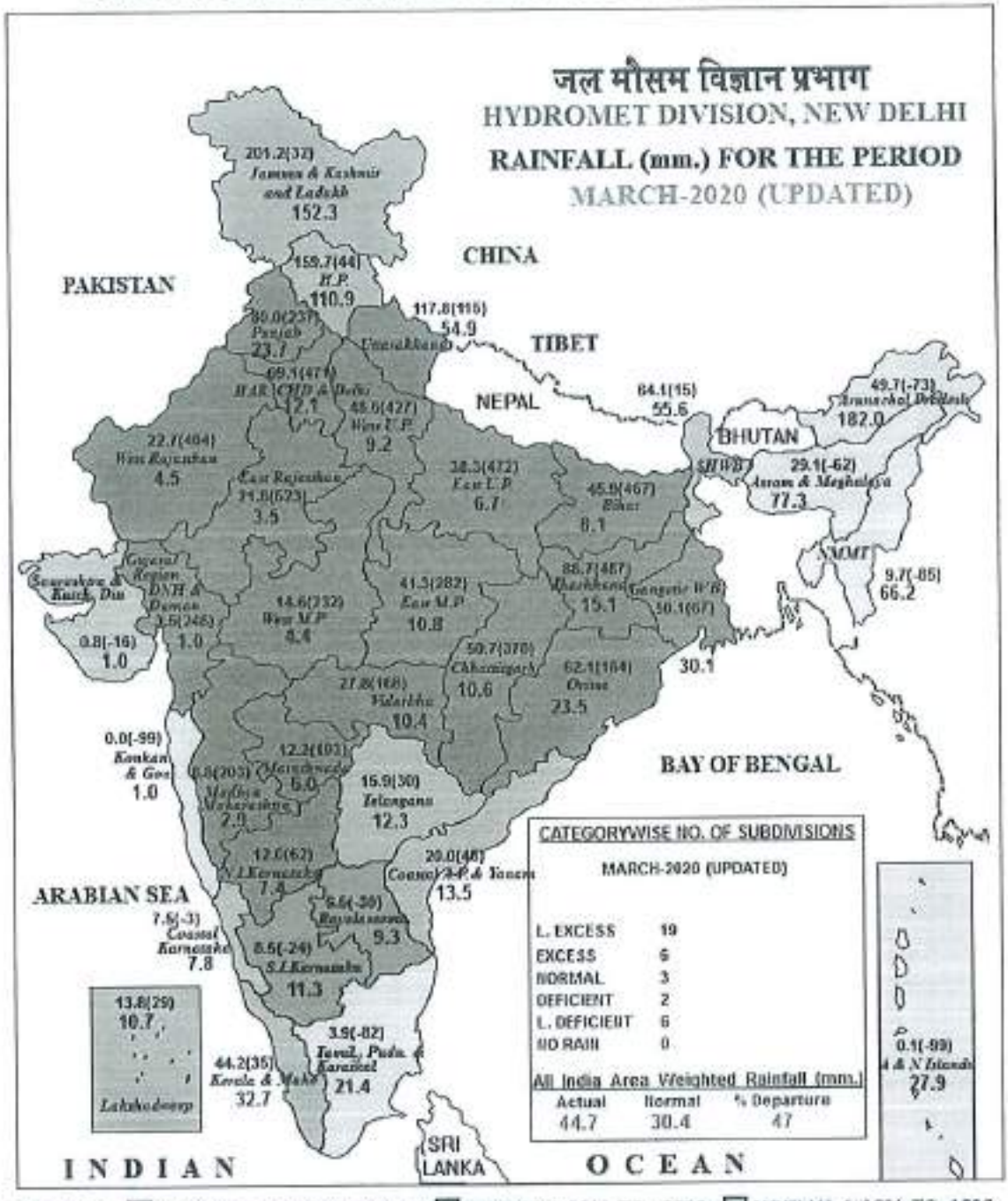

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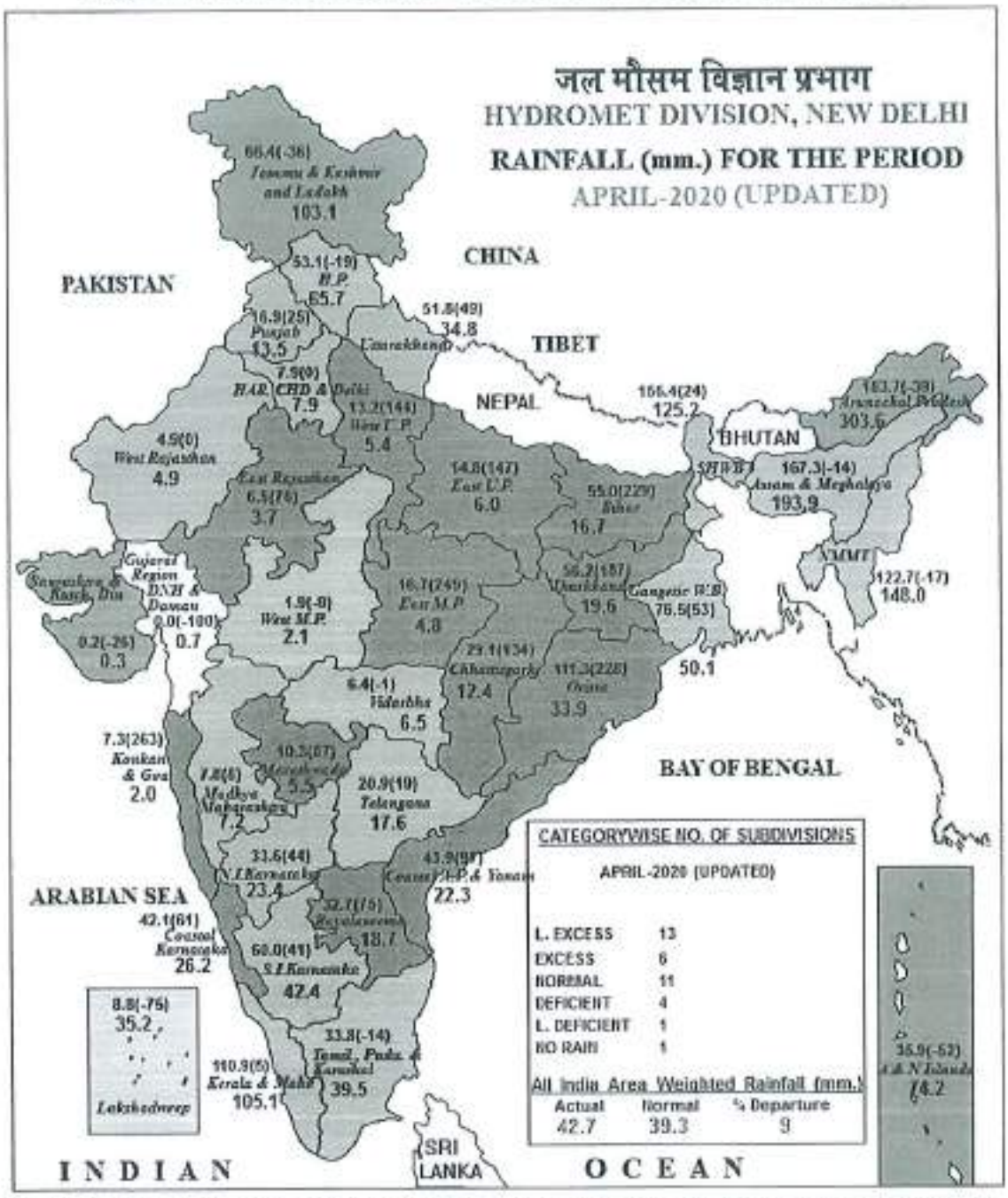

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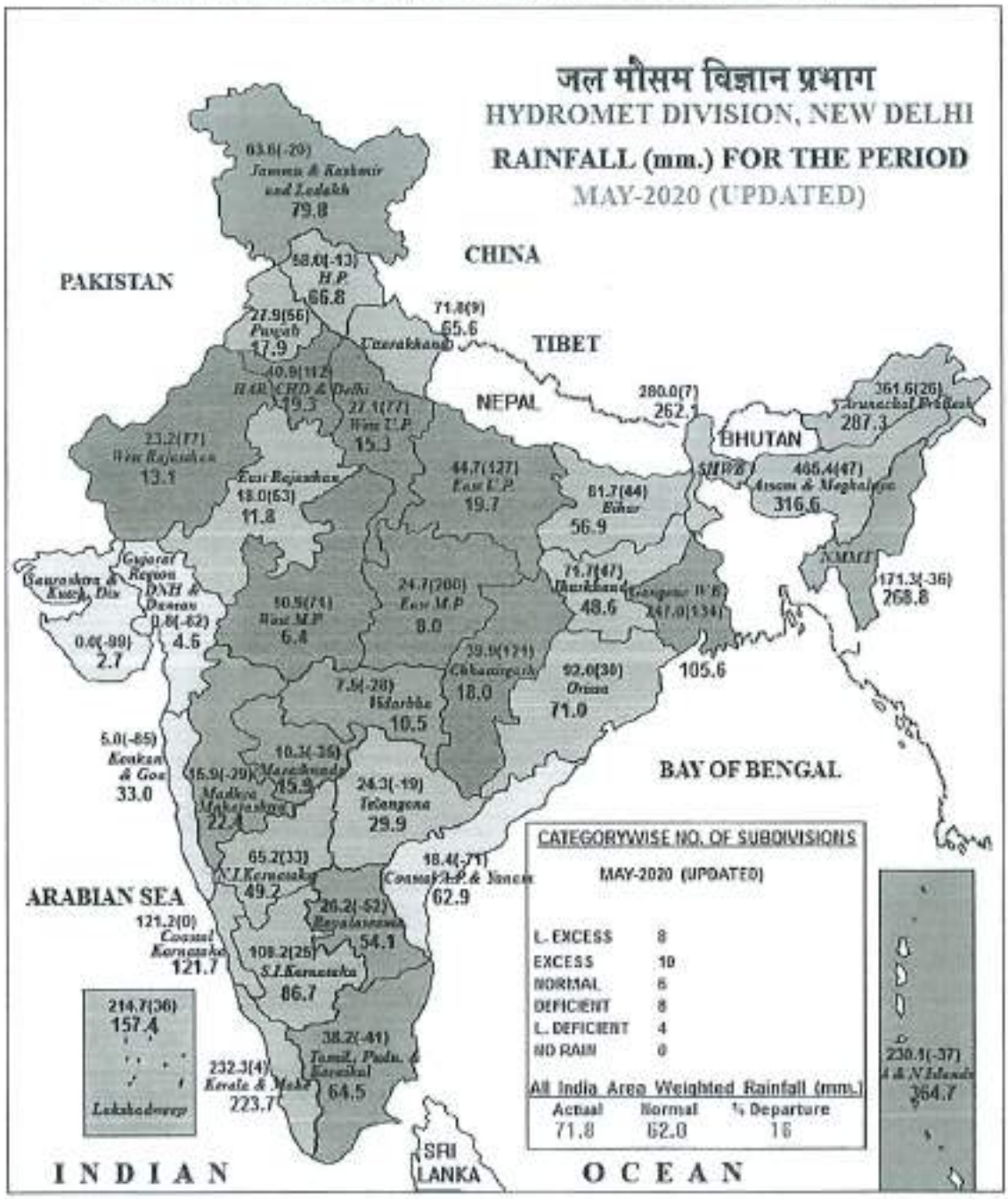

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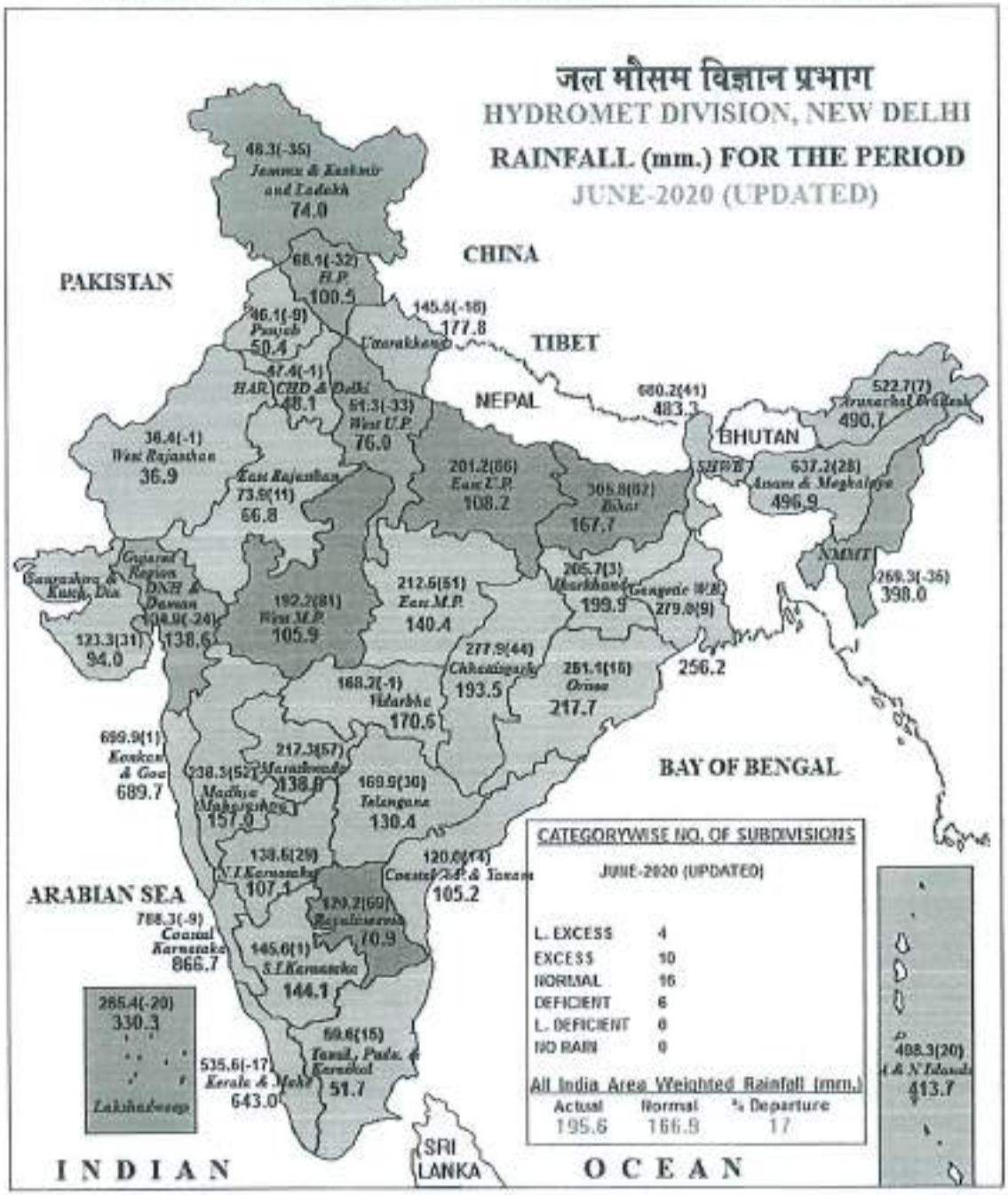

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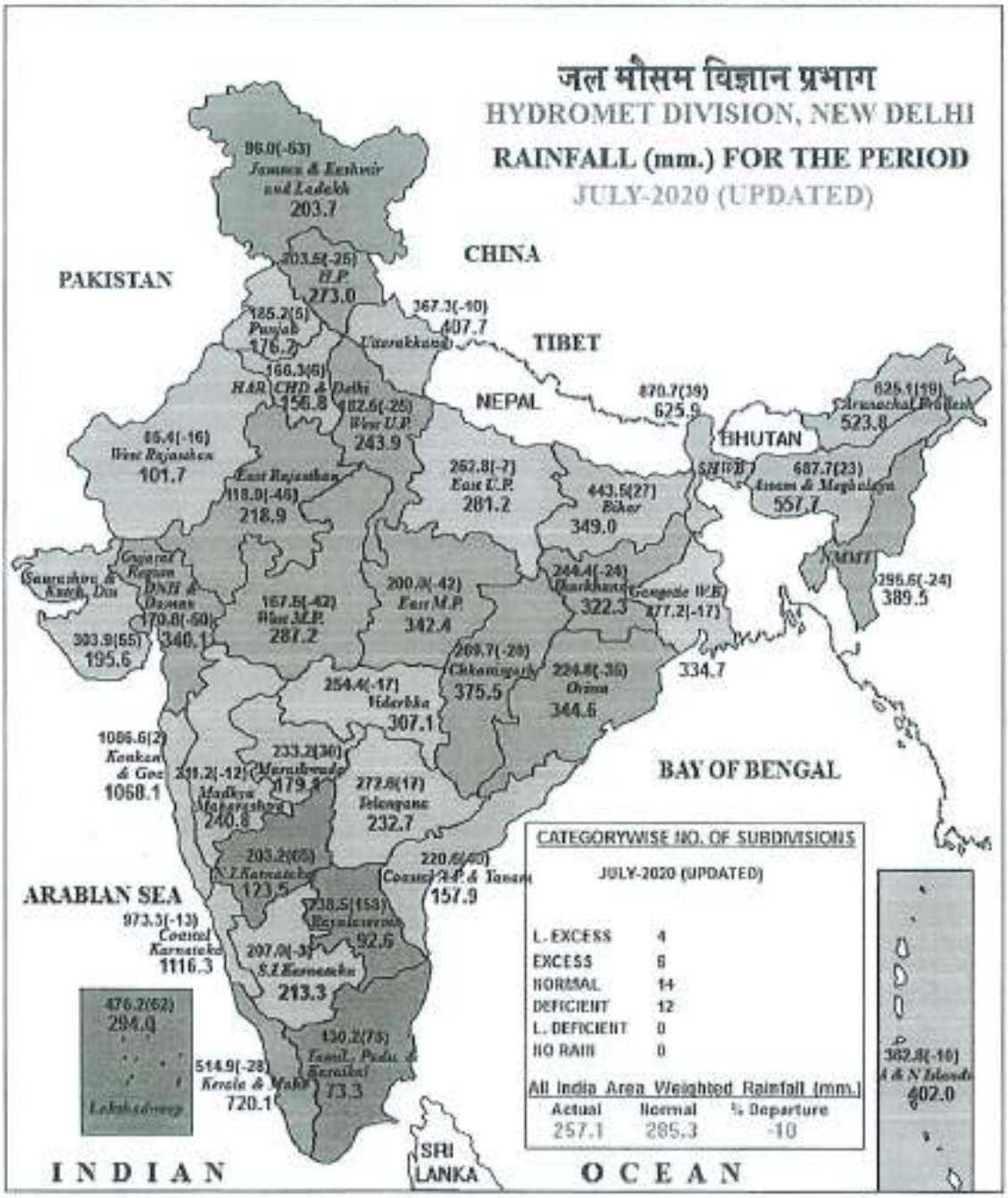

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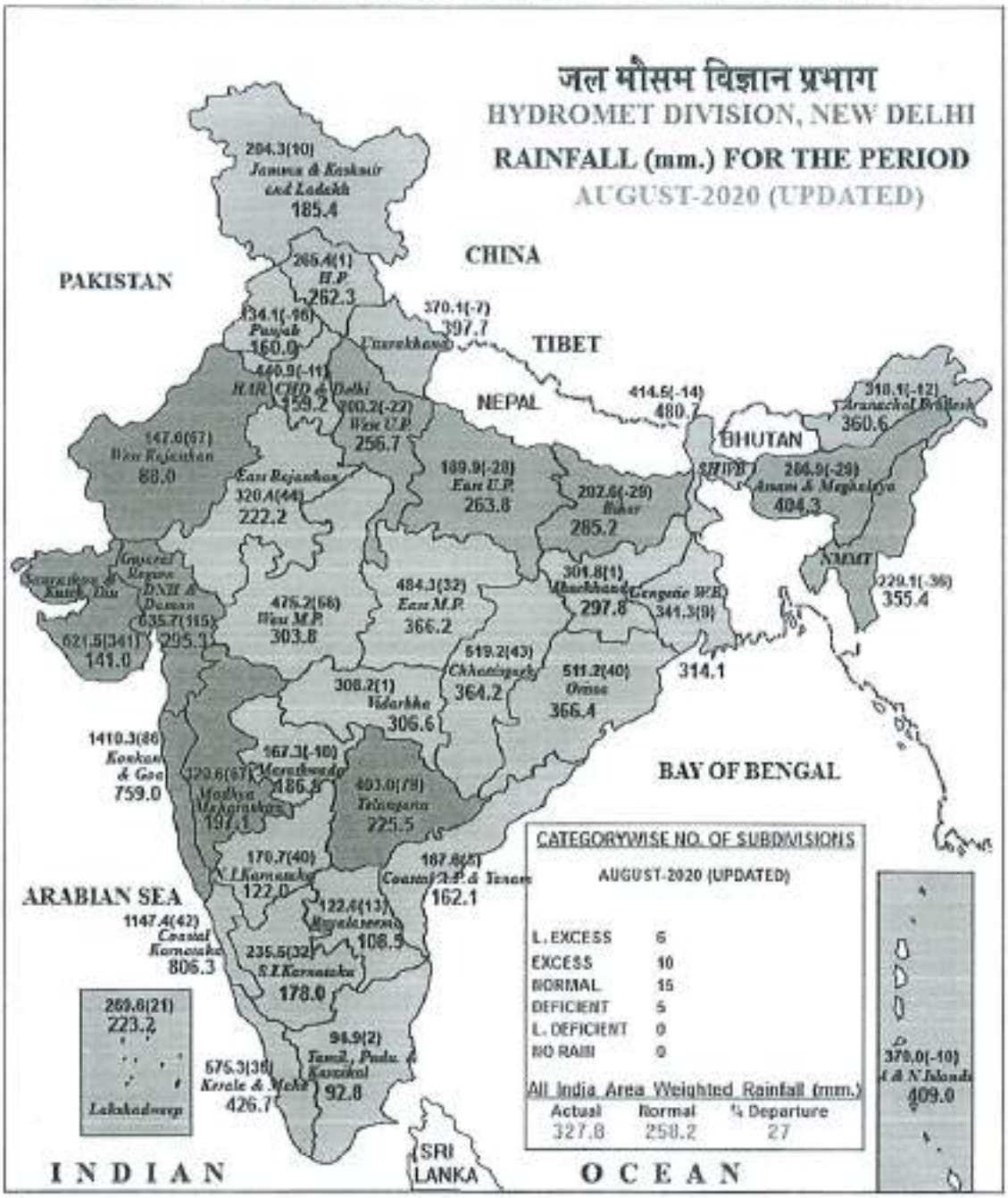

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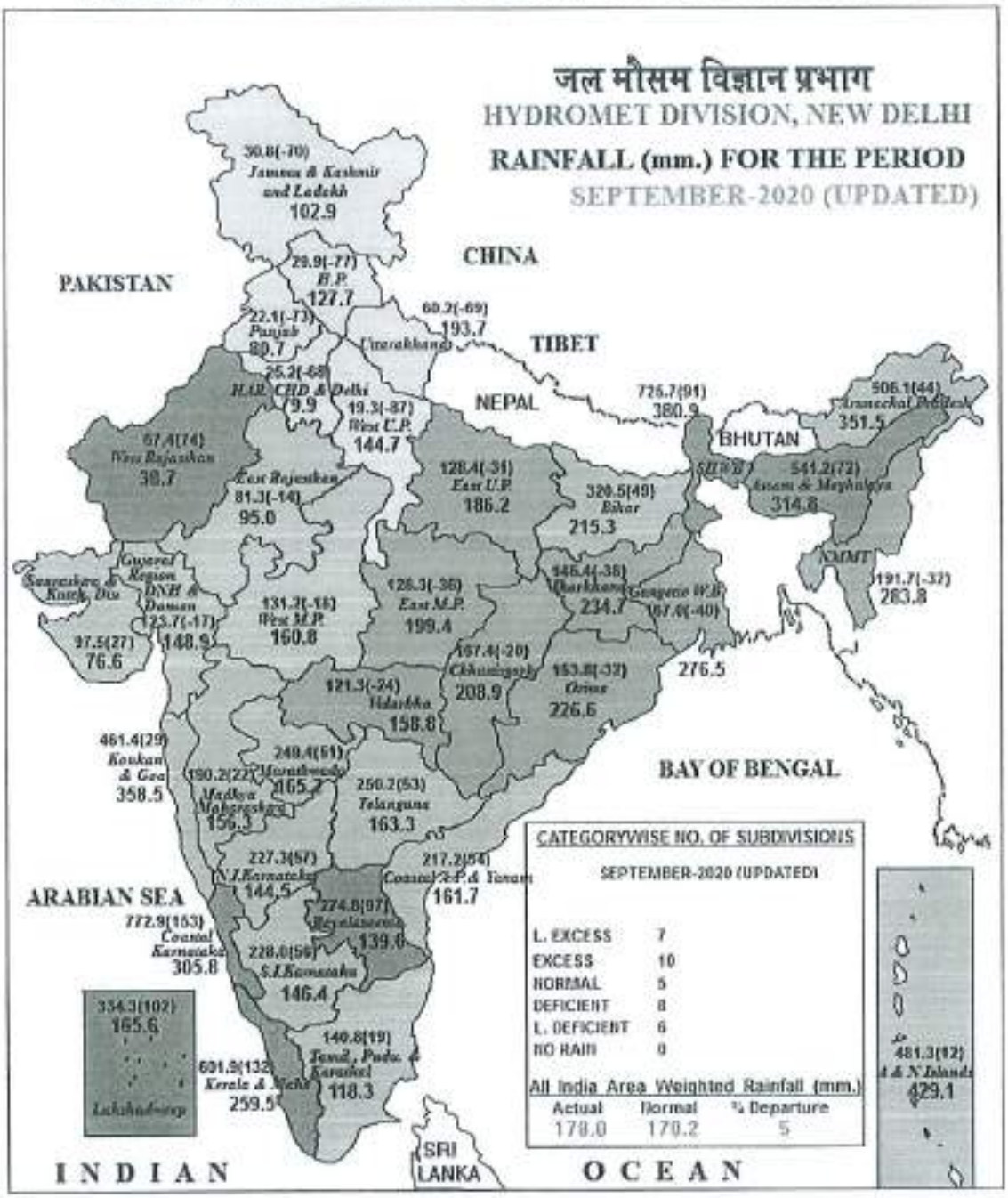

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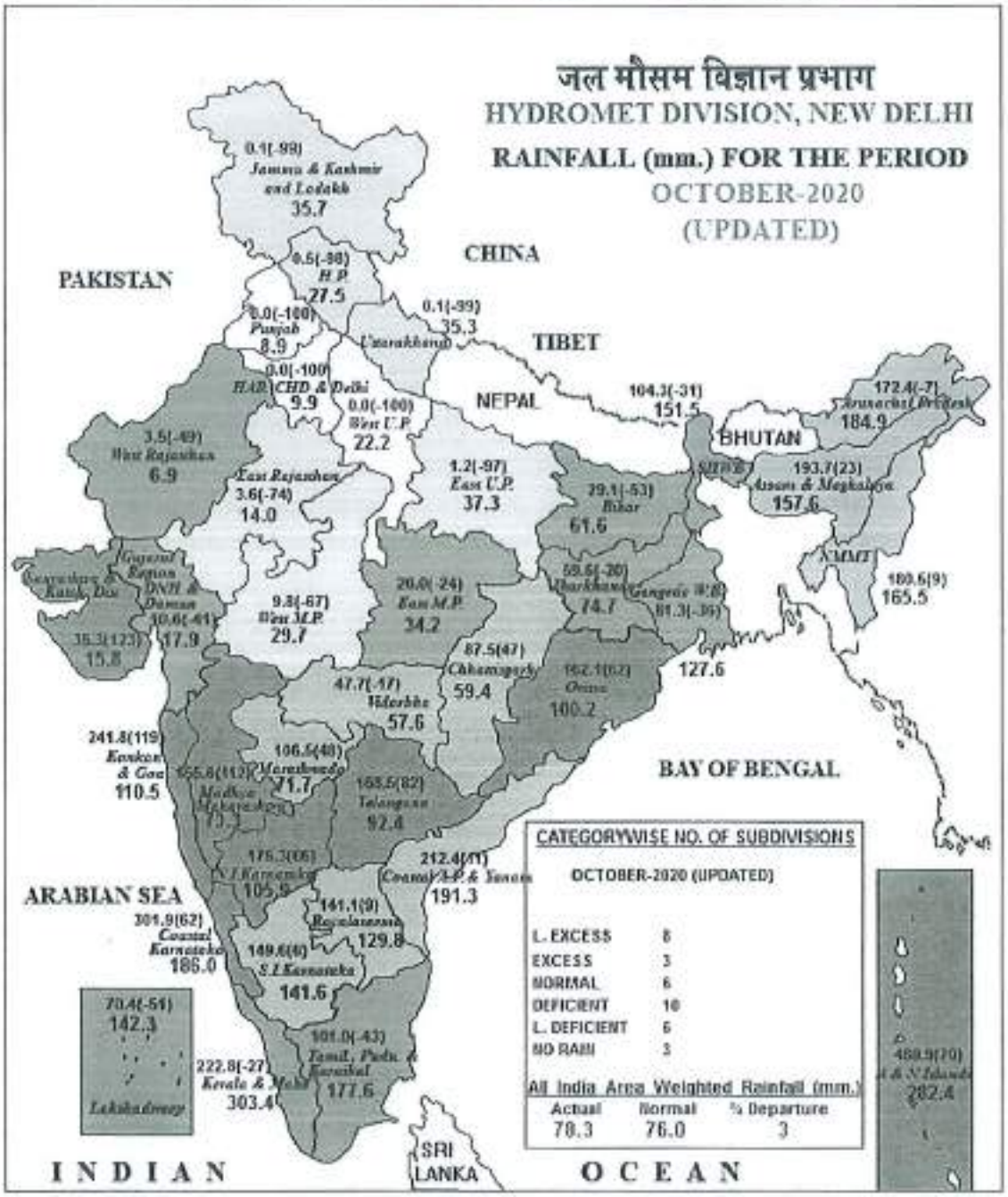

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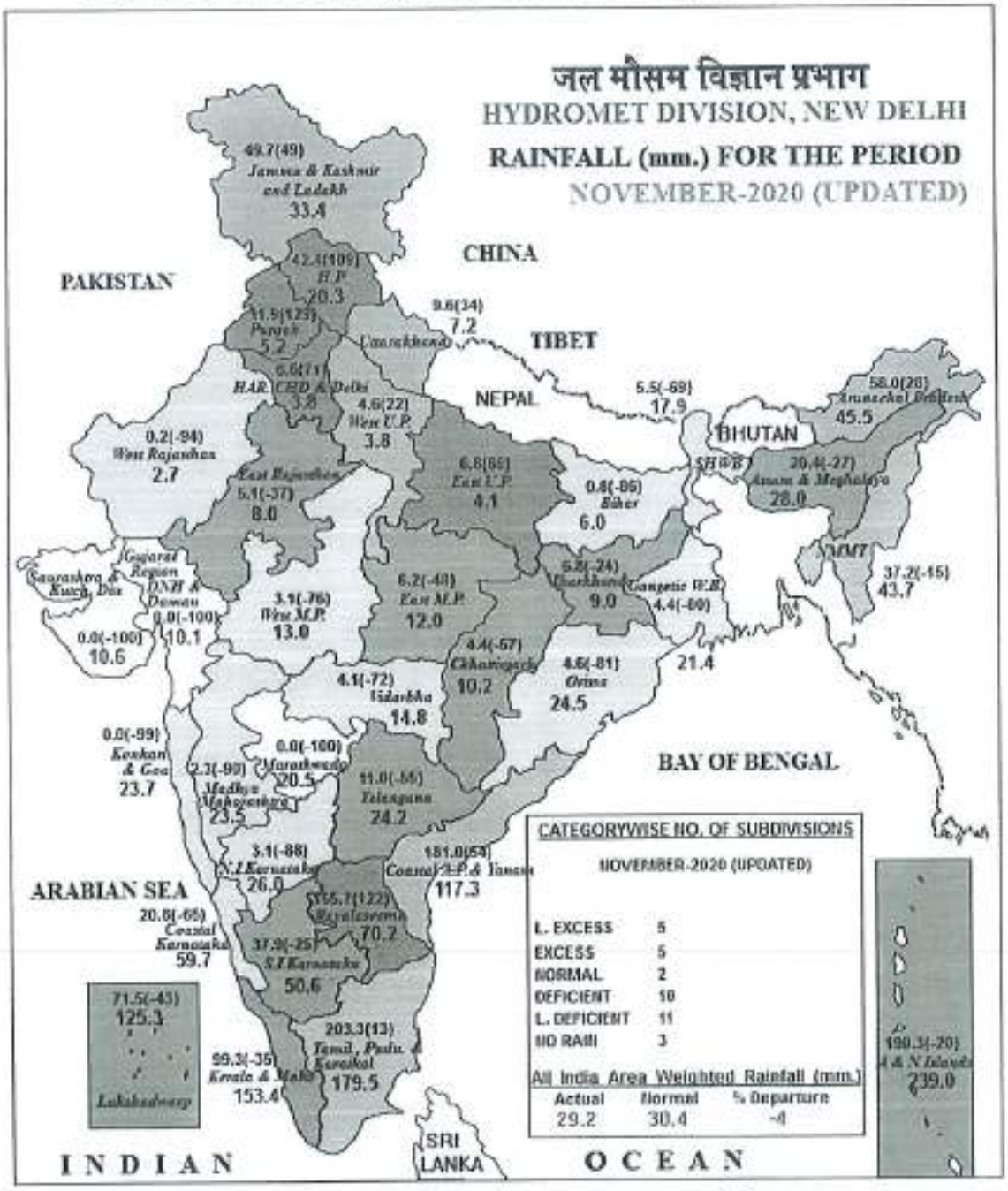

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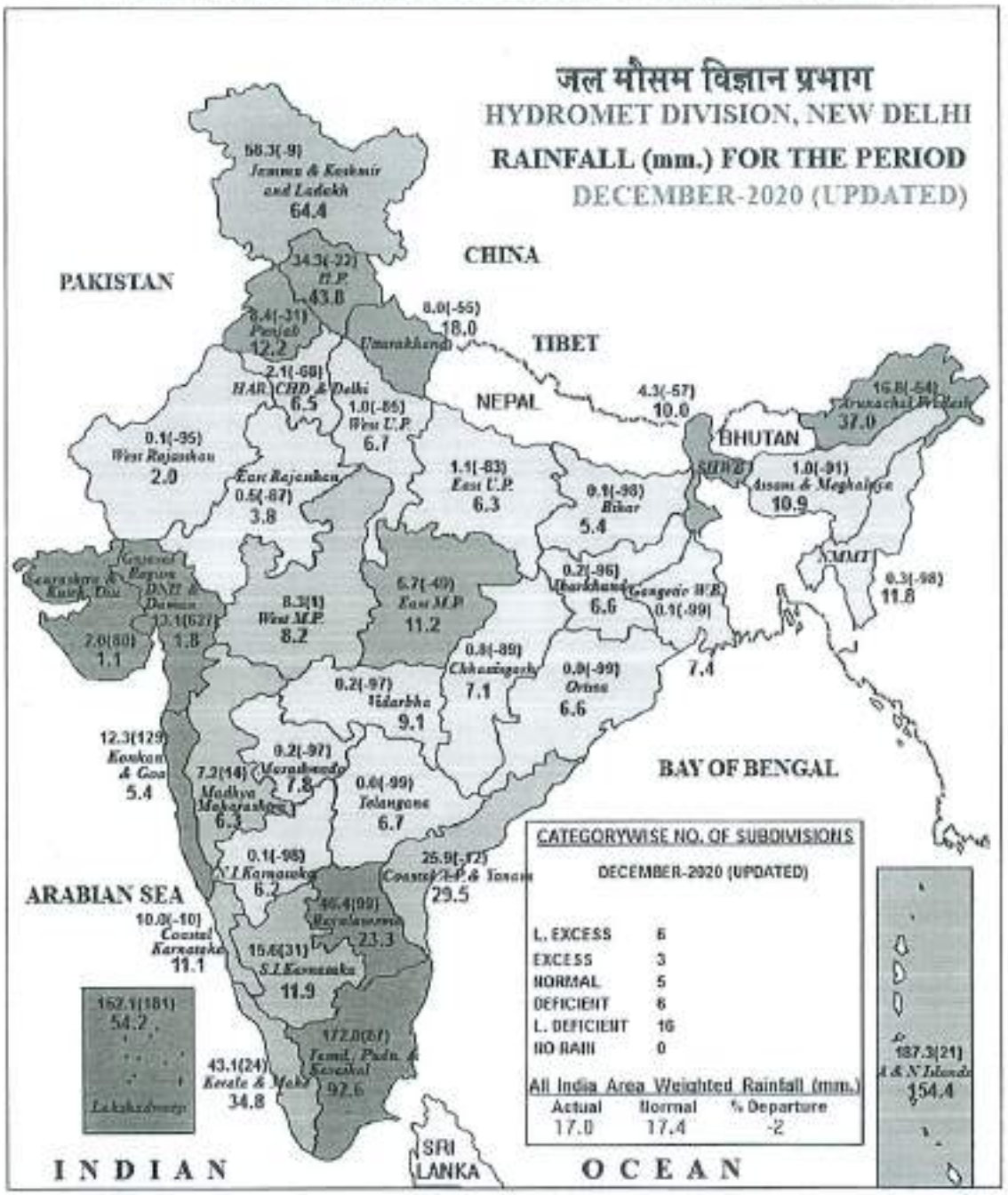

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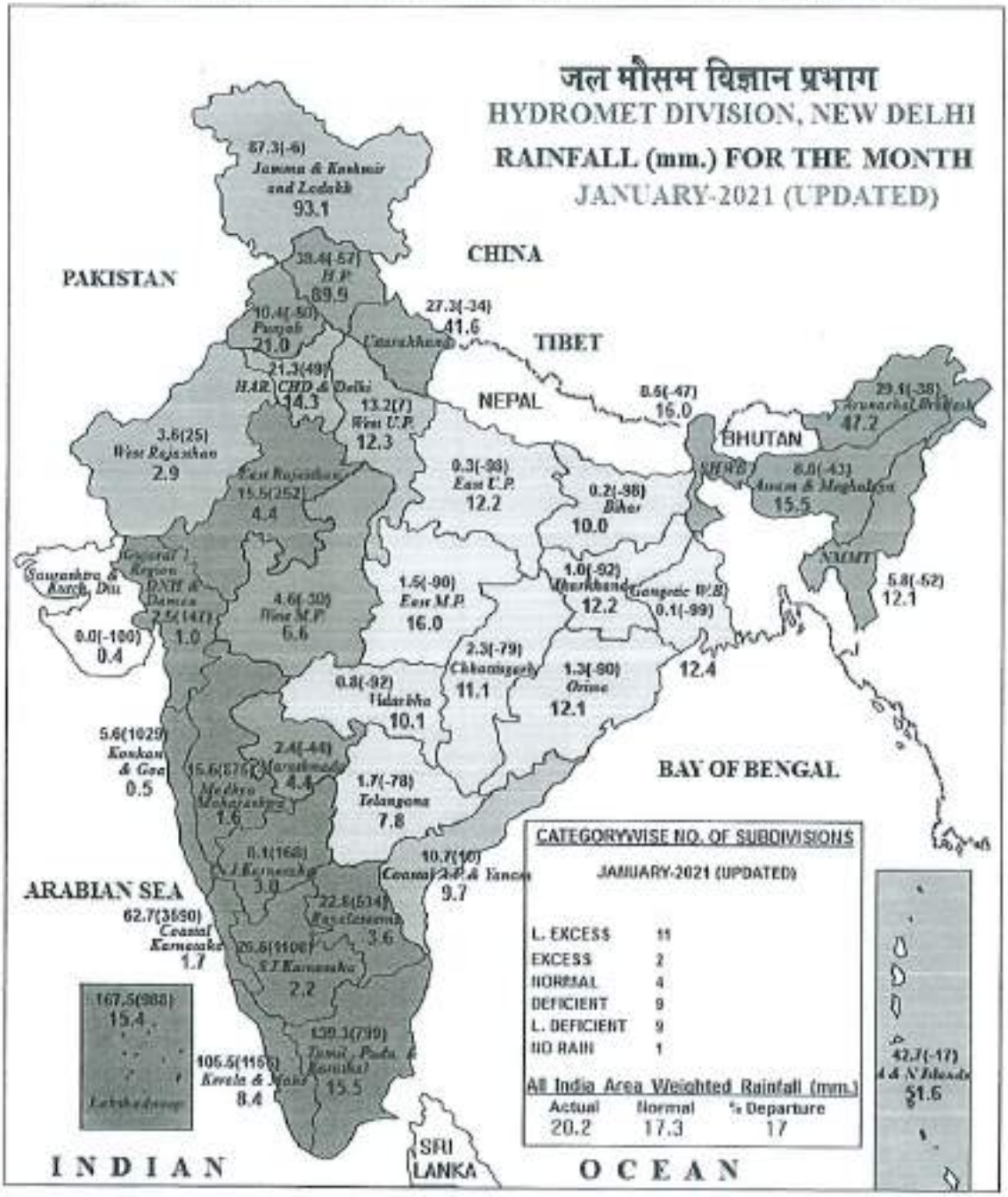

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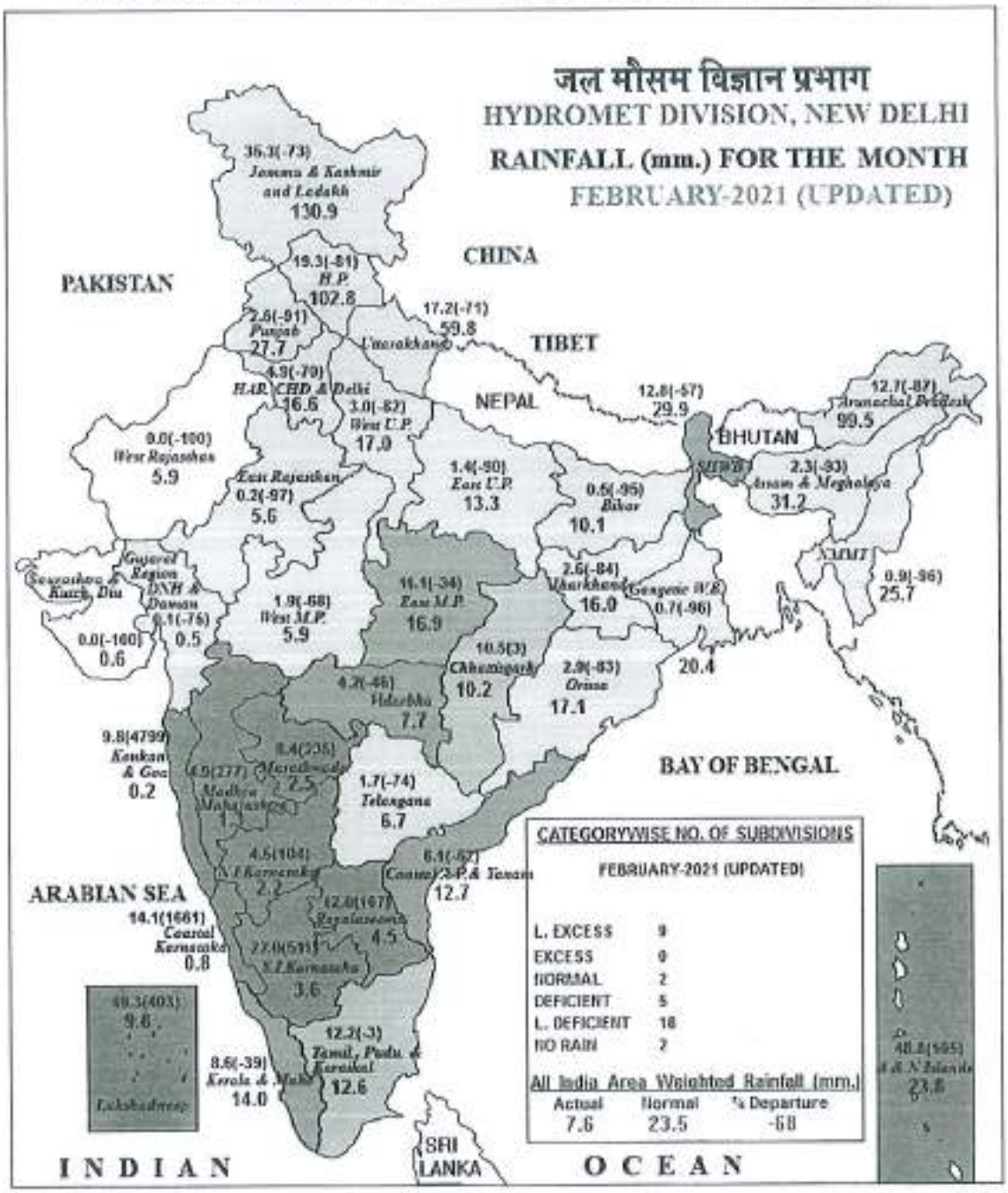

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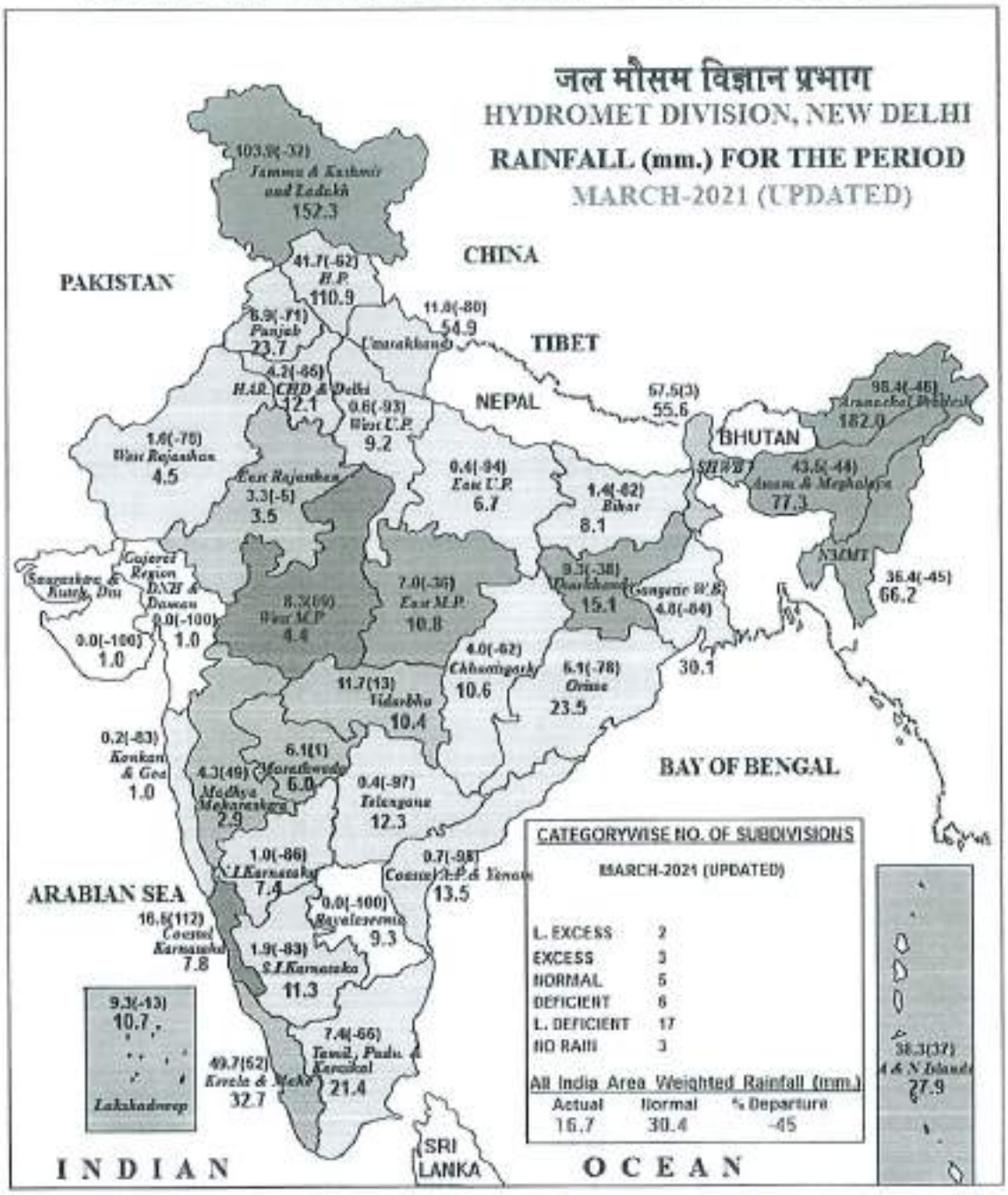

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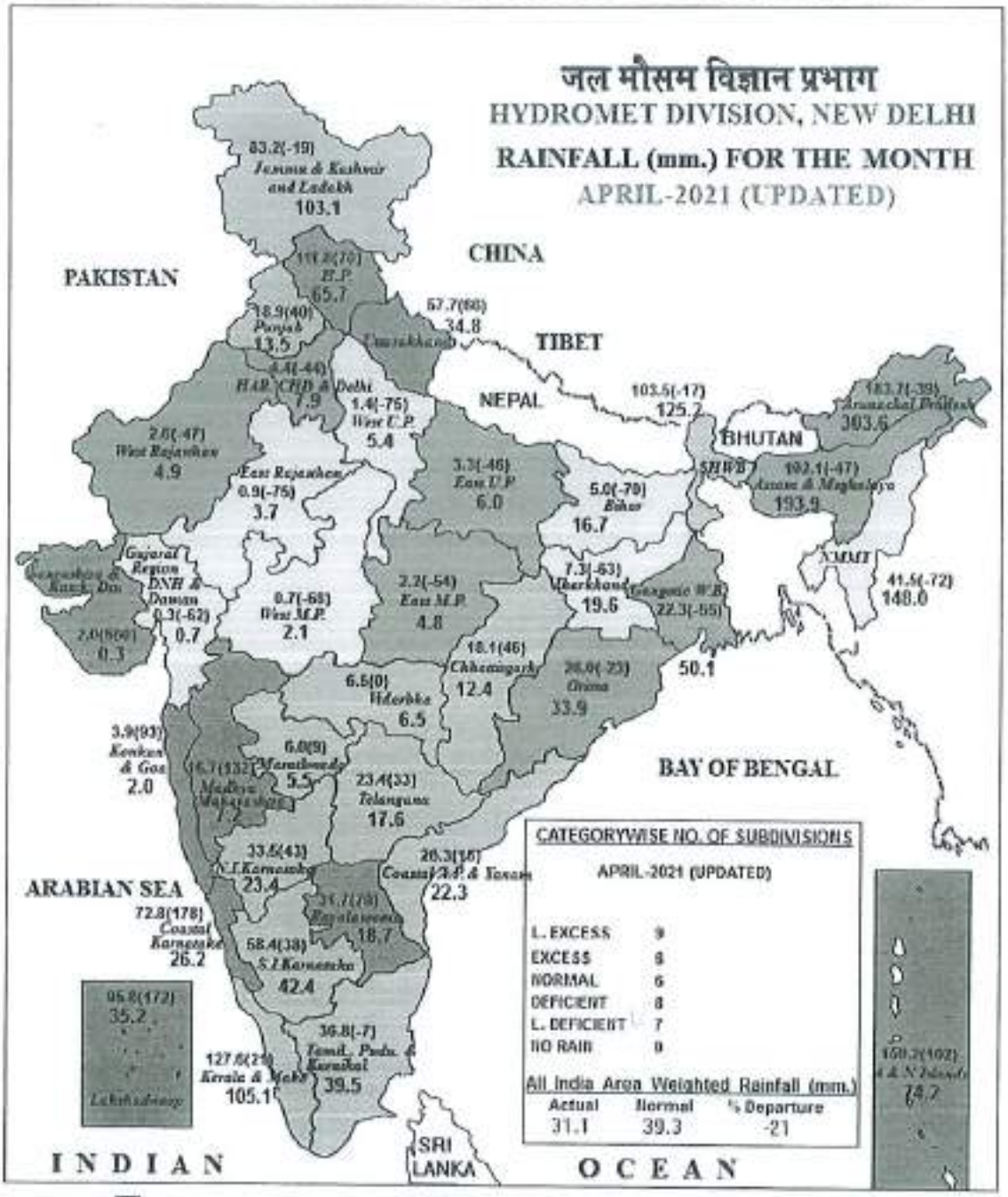

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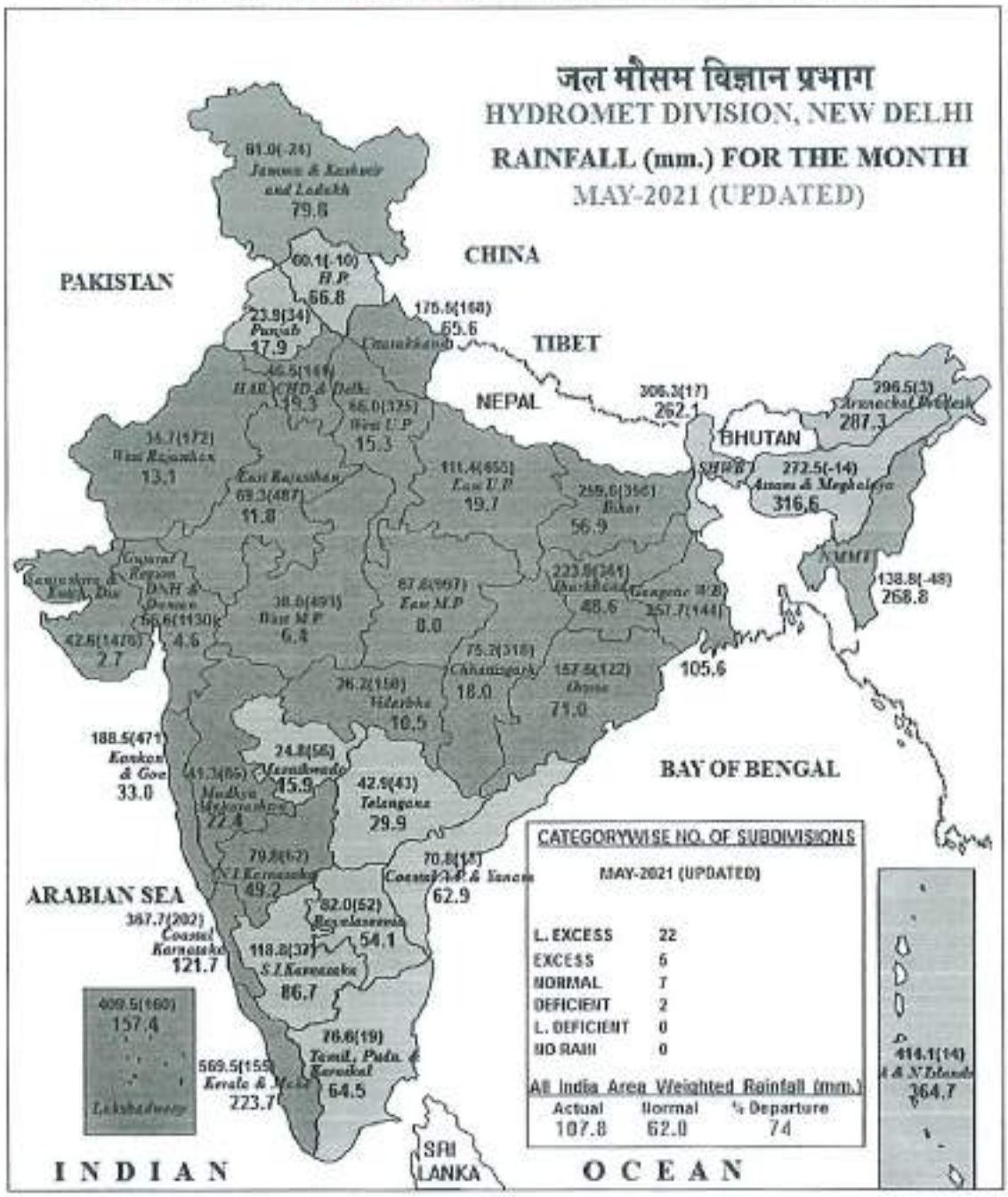

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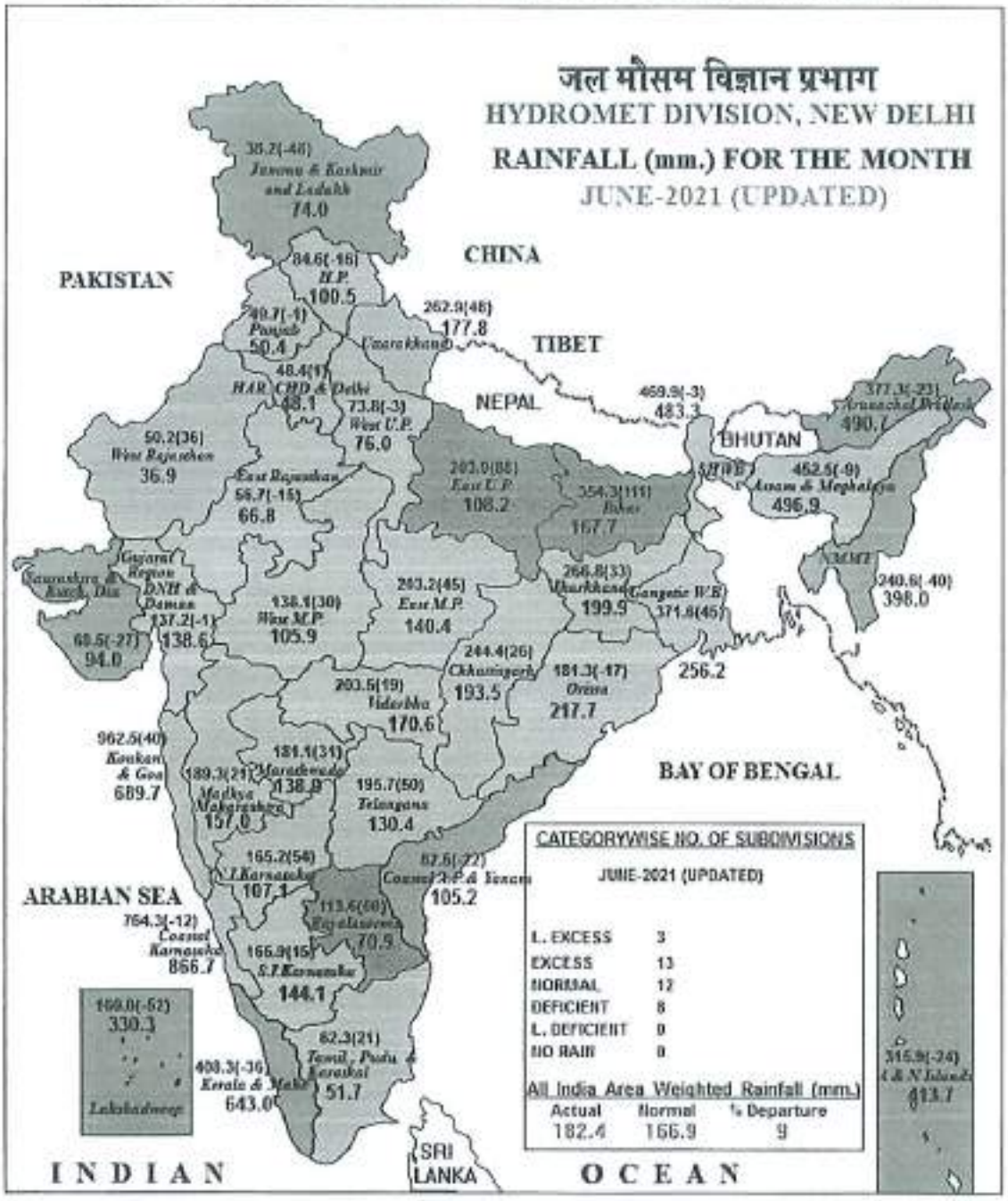

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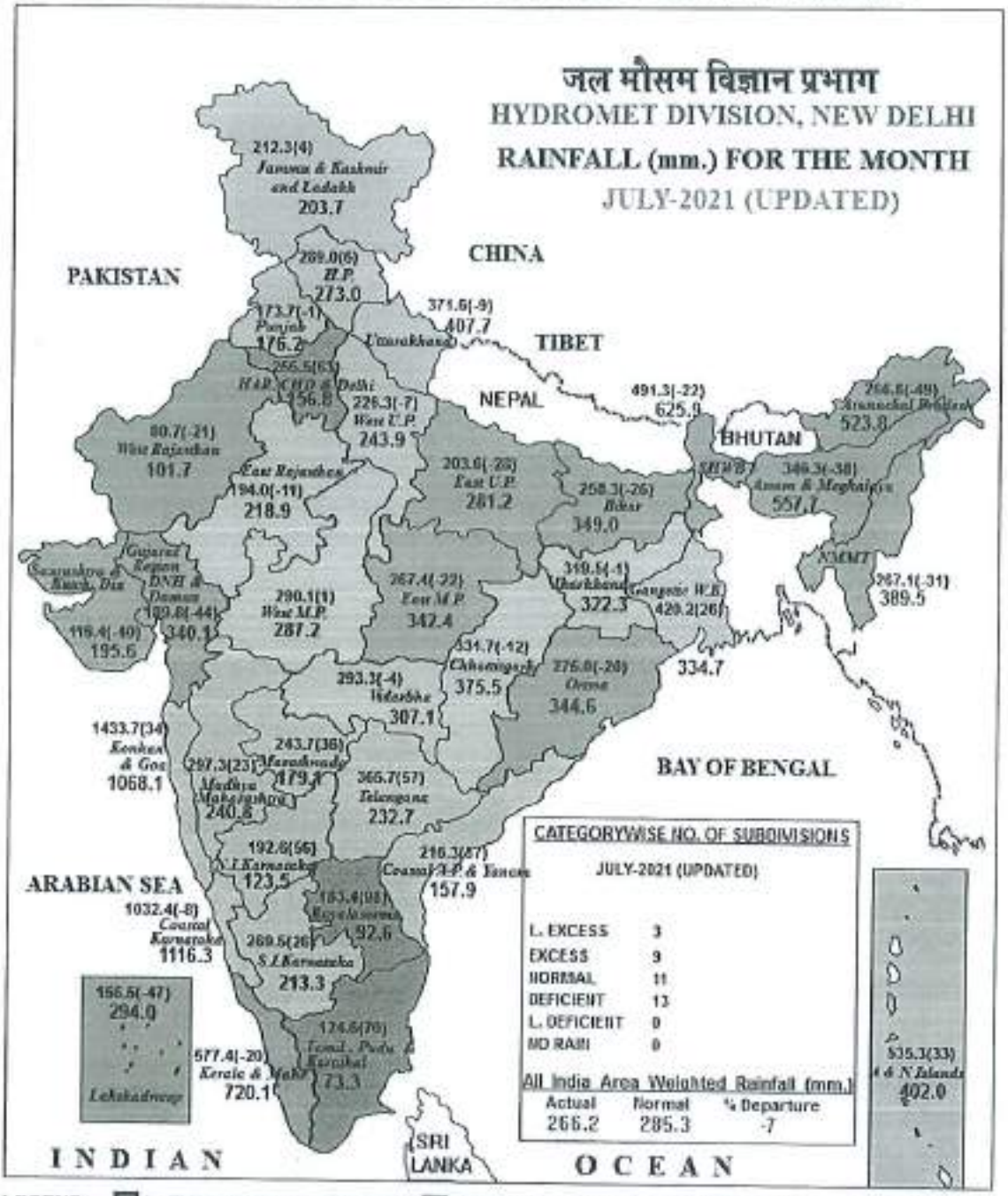

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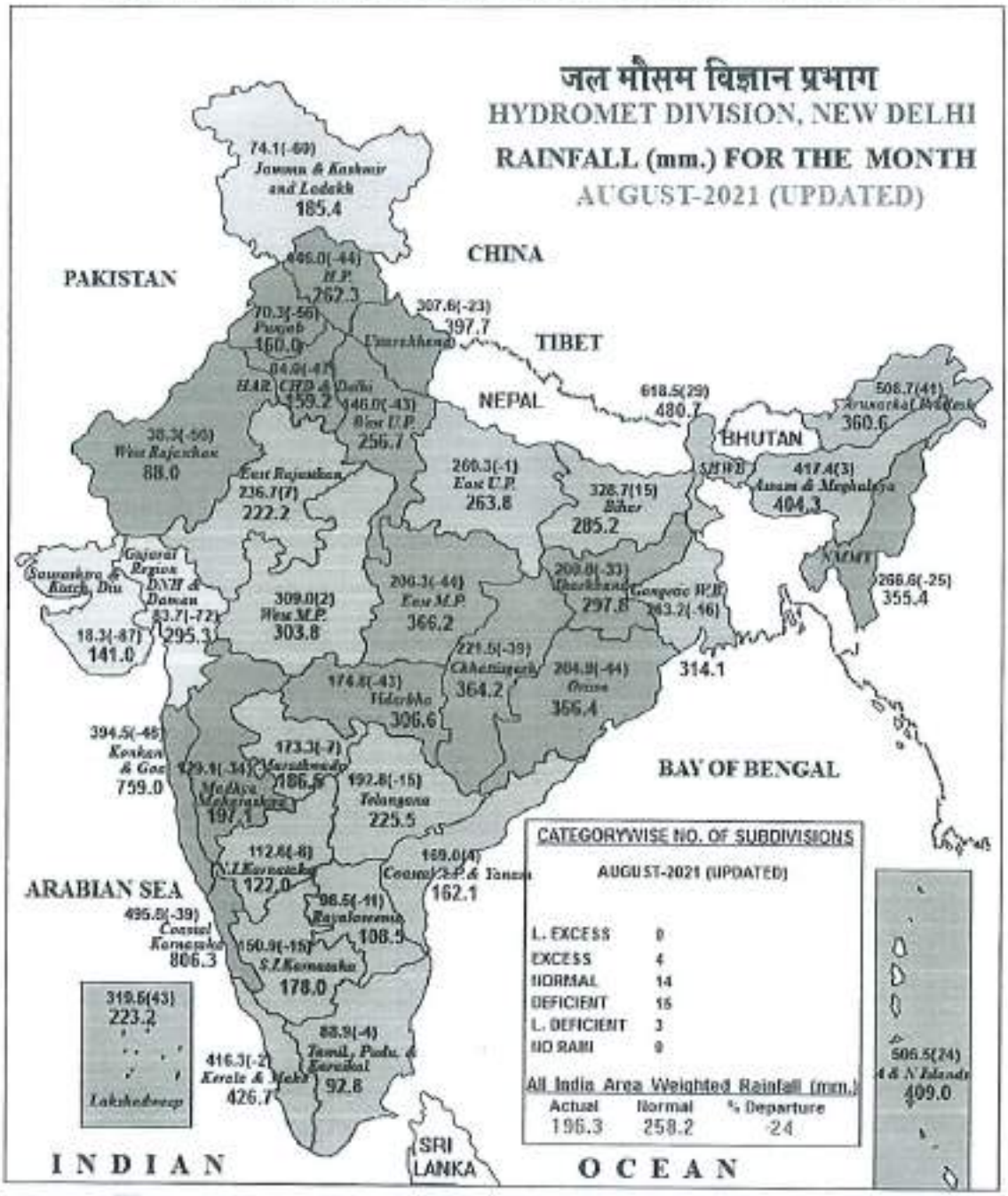
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



LEGEND: L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%)
DEFICIENT (-20% TO -59%) L. DEFICIENT (-60% TO -99%) NO RAIN (-100%) NO DATA

NOTES:
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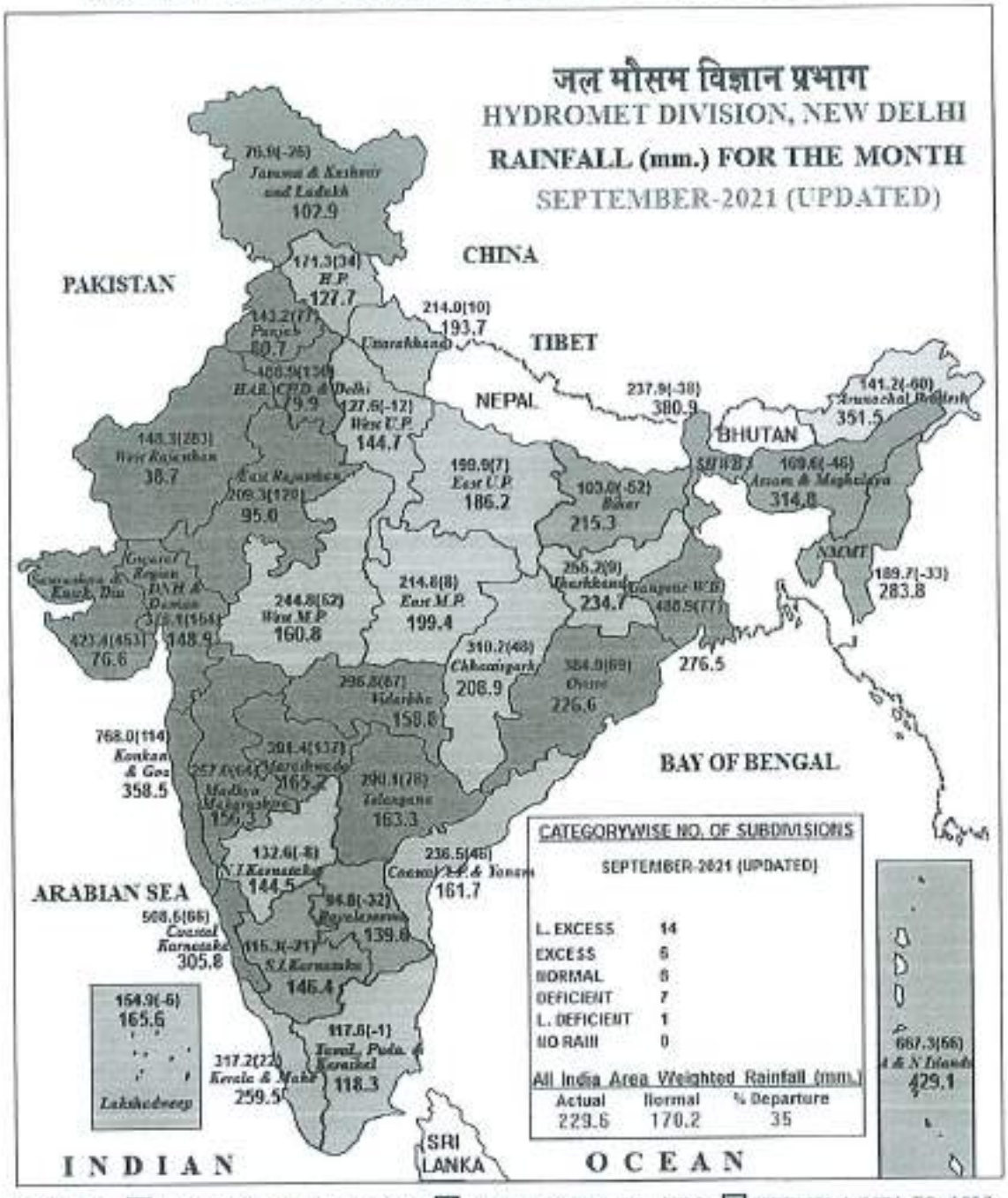
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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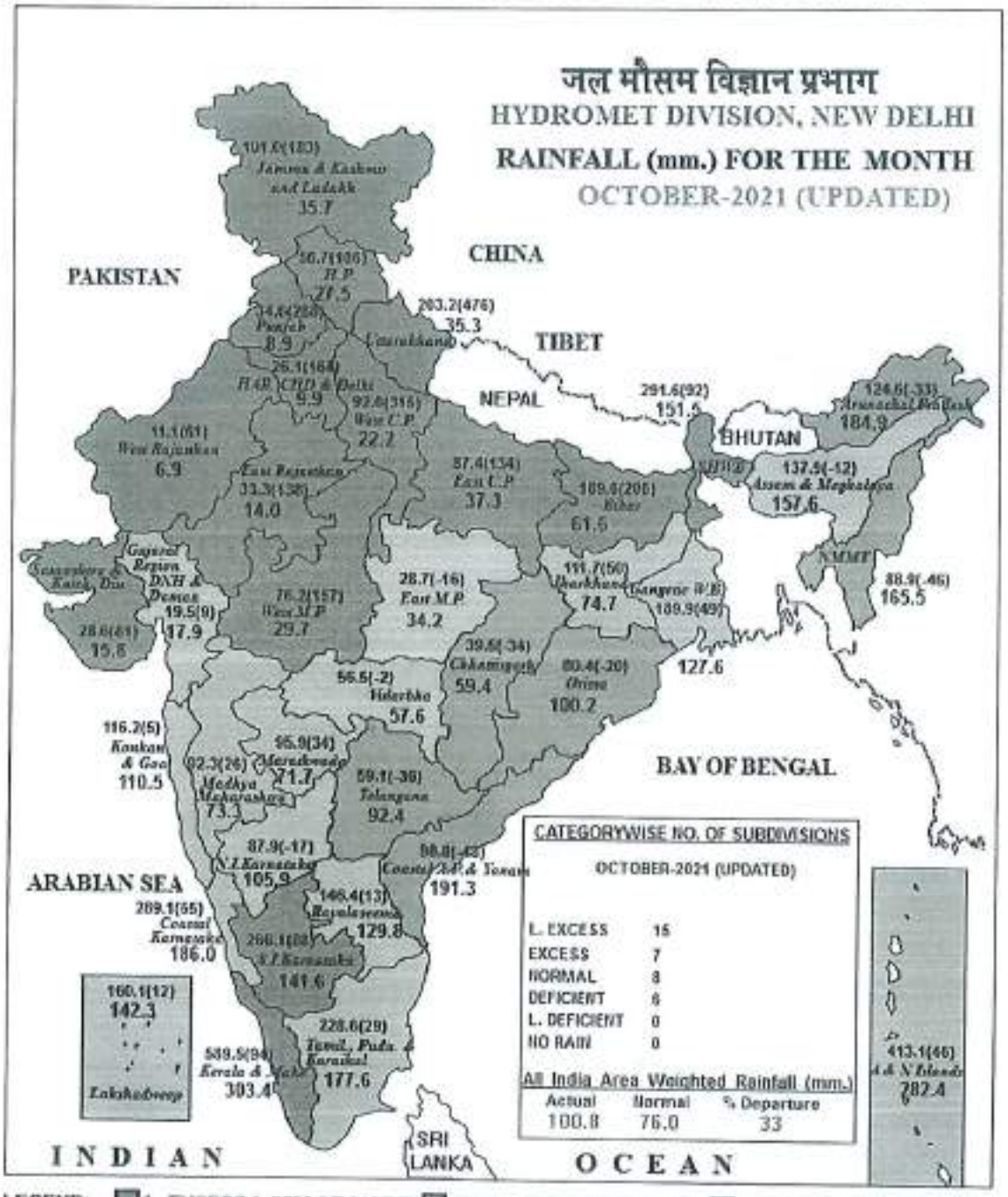
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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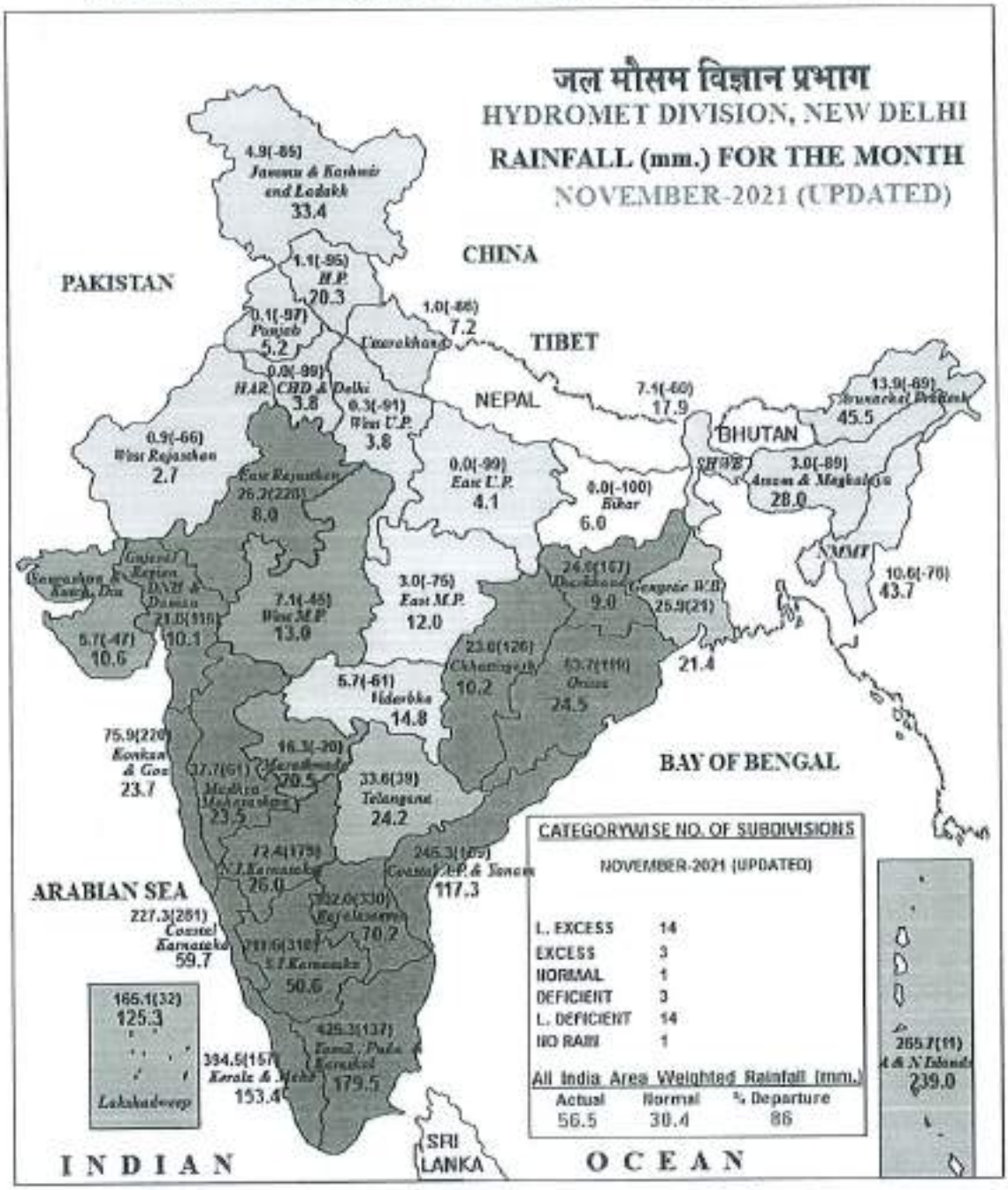
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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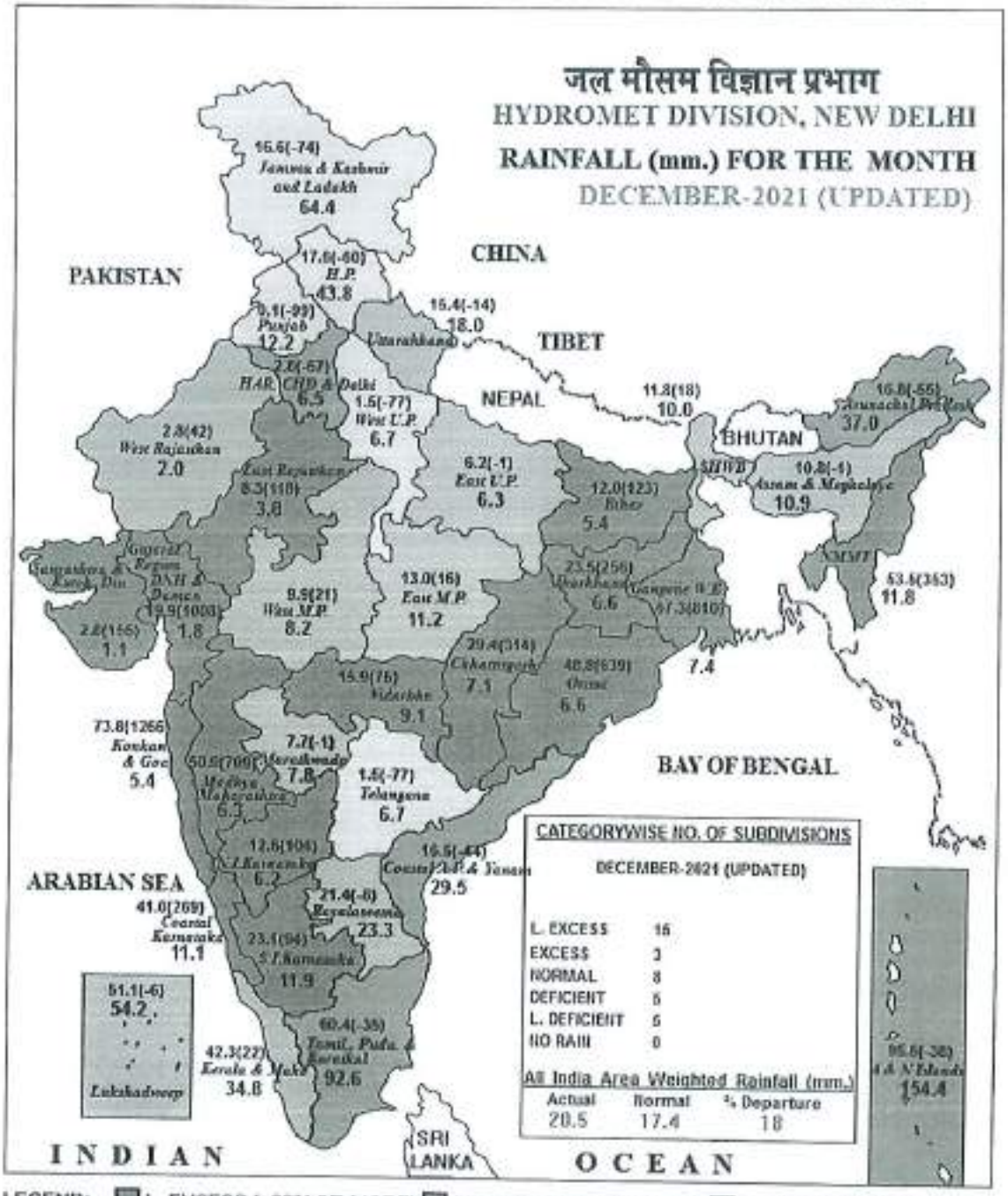
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



LEGEND: L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%)
DEFICIENT (-20% TO -59%) L. DEFICIENT (-60% TO -99%) NO RAIN (-100%) NO DATA

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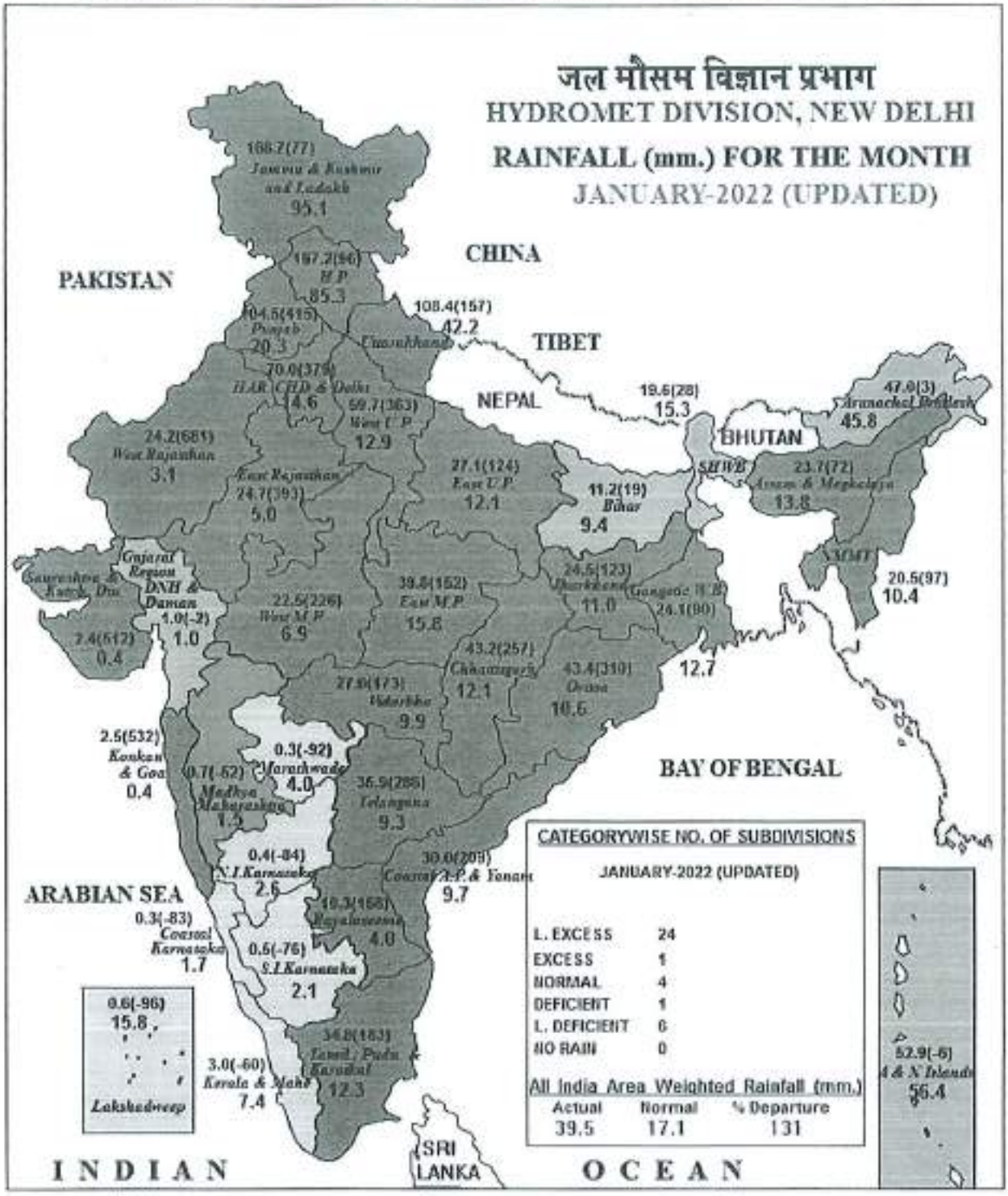
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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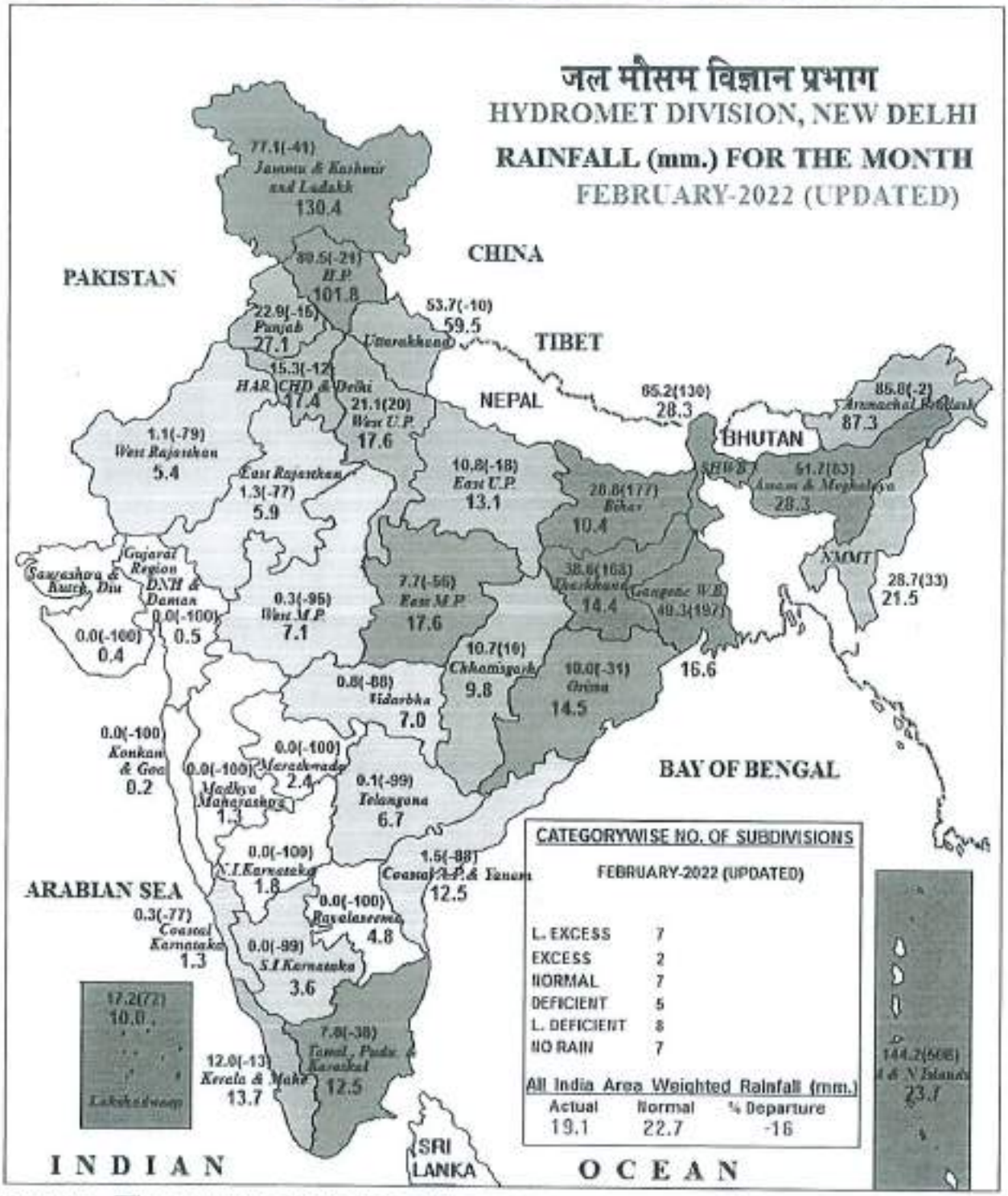
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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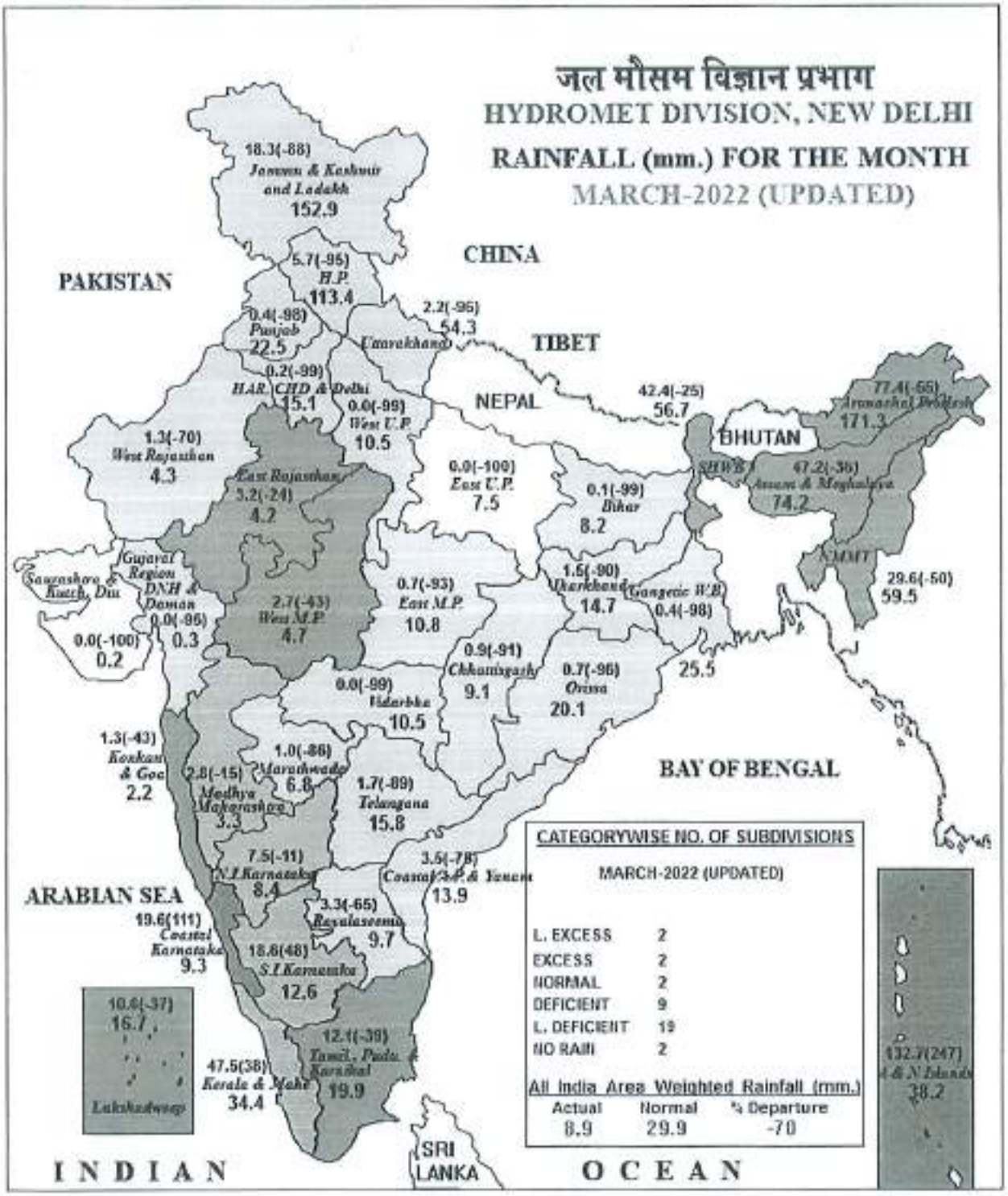
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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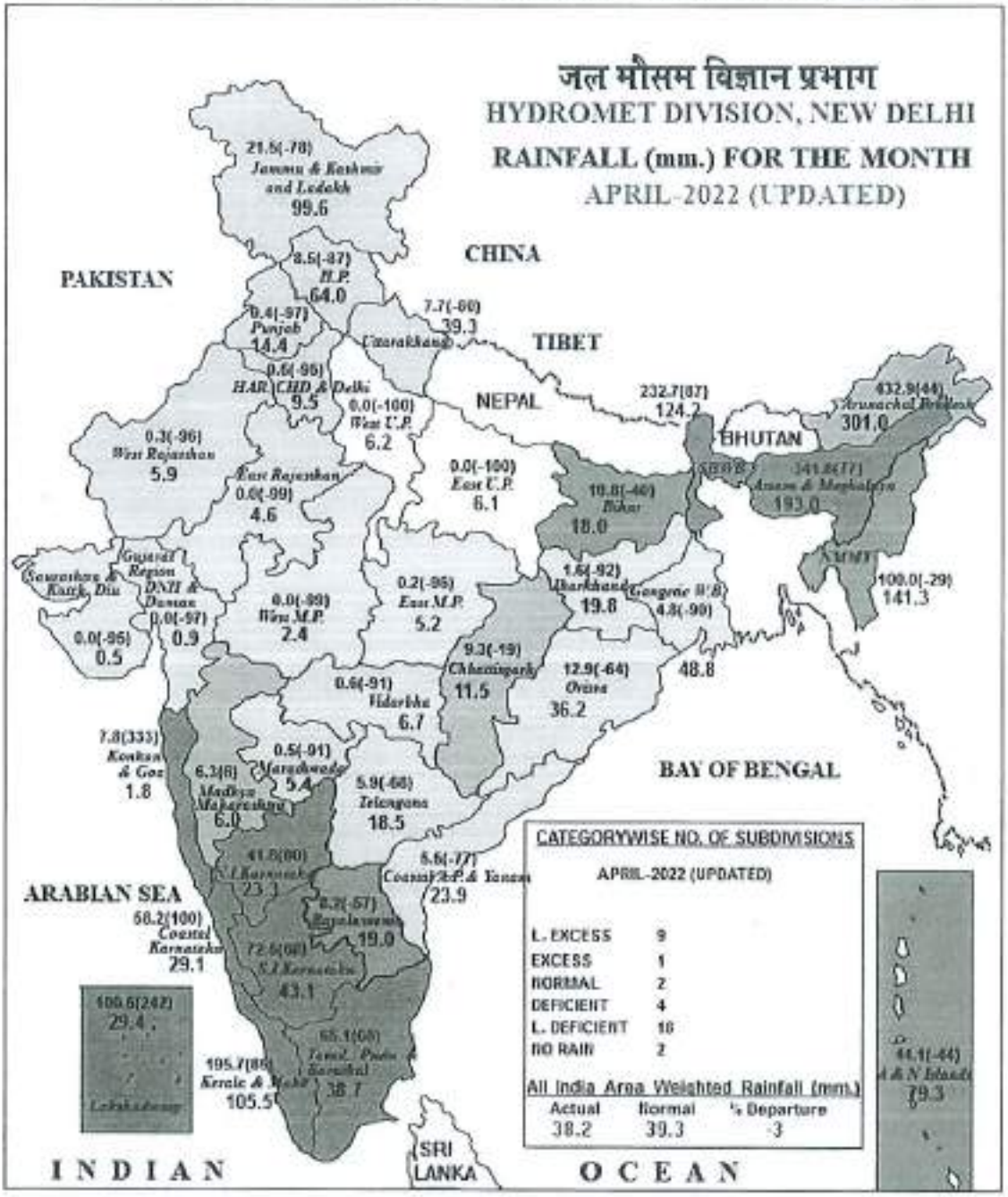
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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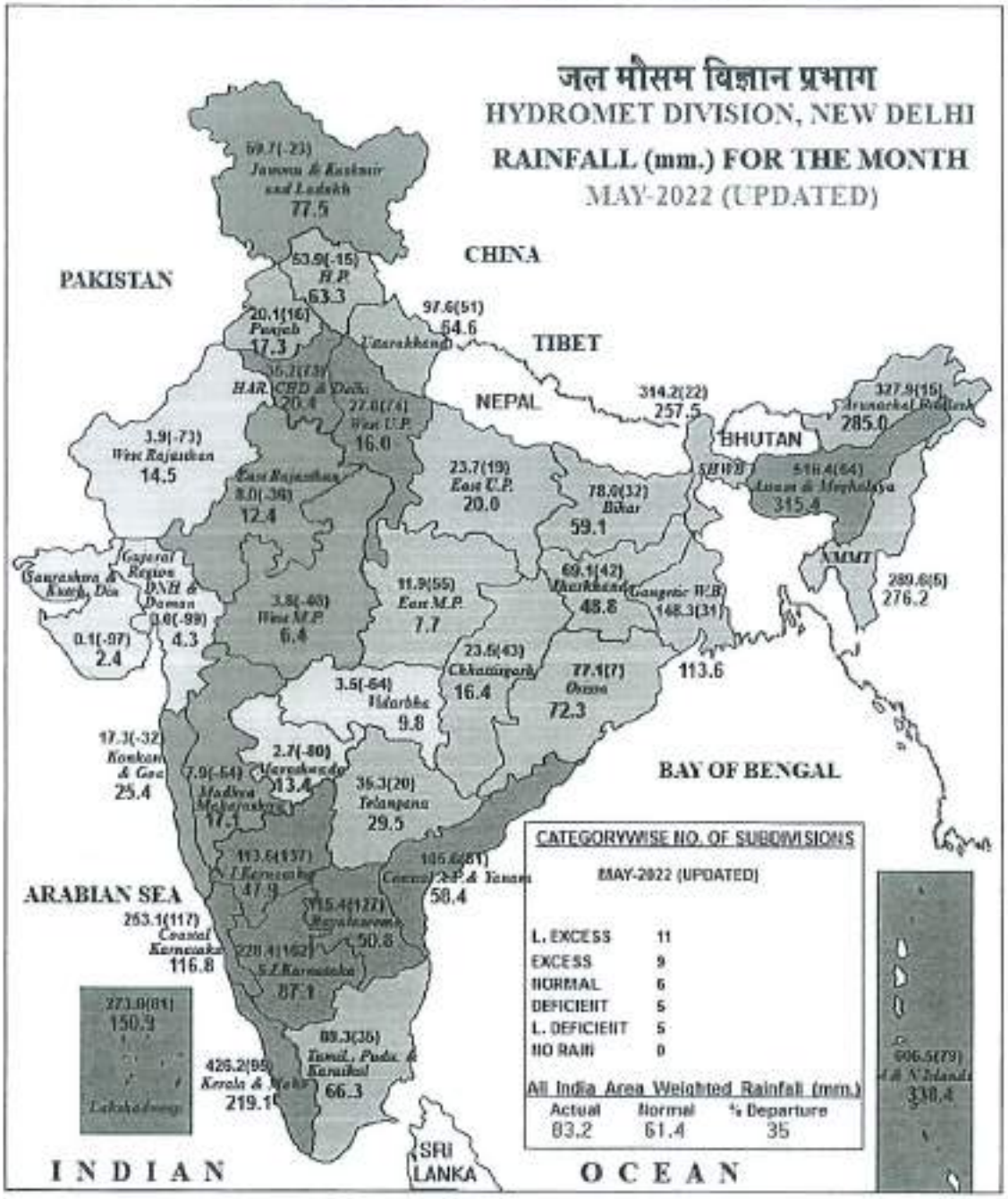
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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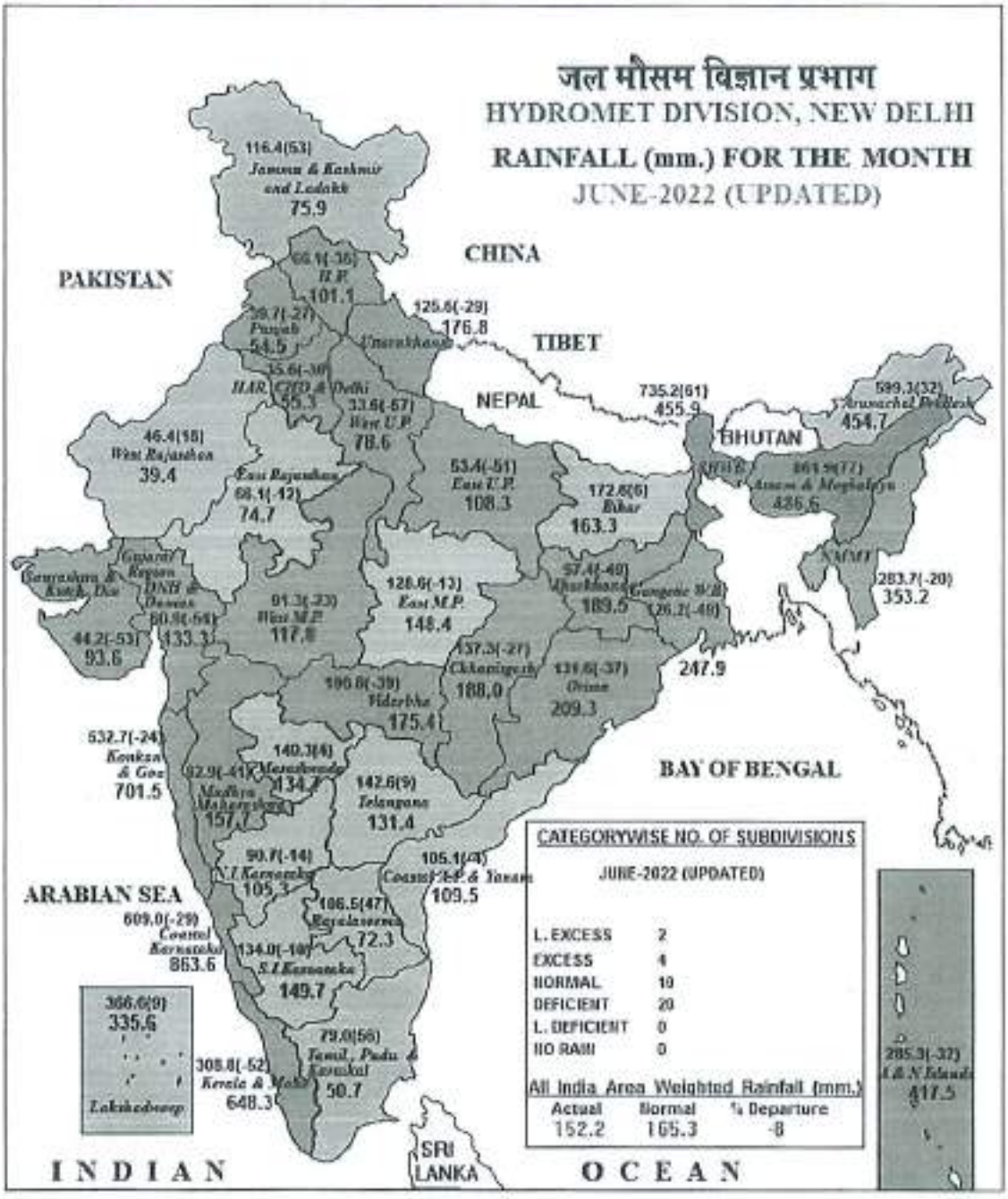
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग
HYDROMET DIVISION, NEW DELHI
RAINFALL (mm.) FOR THE MONTH
JUNE-2022 (UPDATED)



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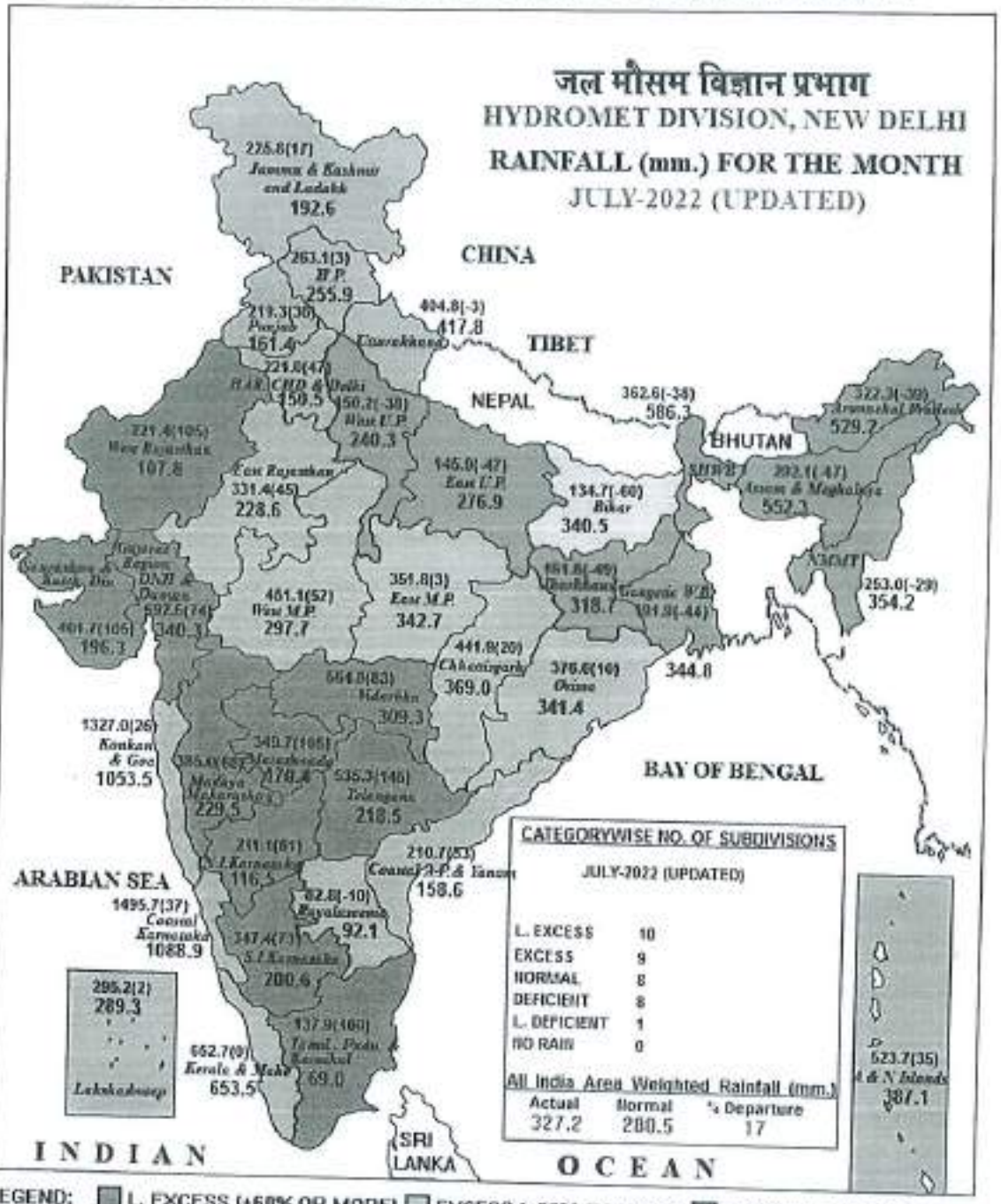
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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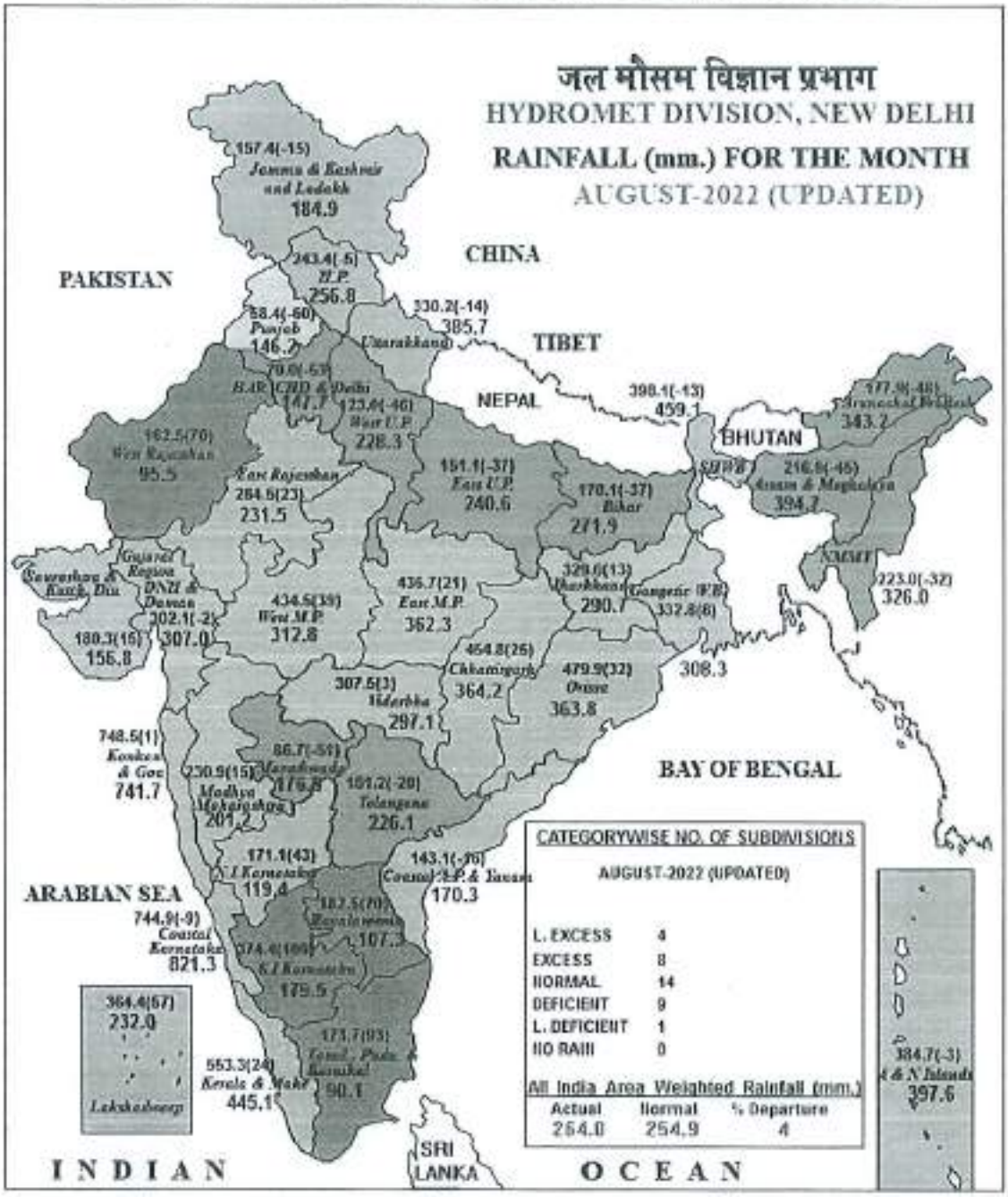
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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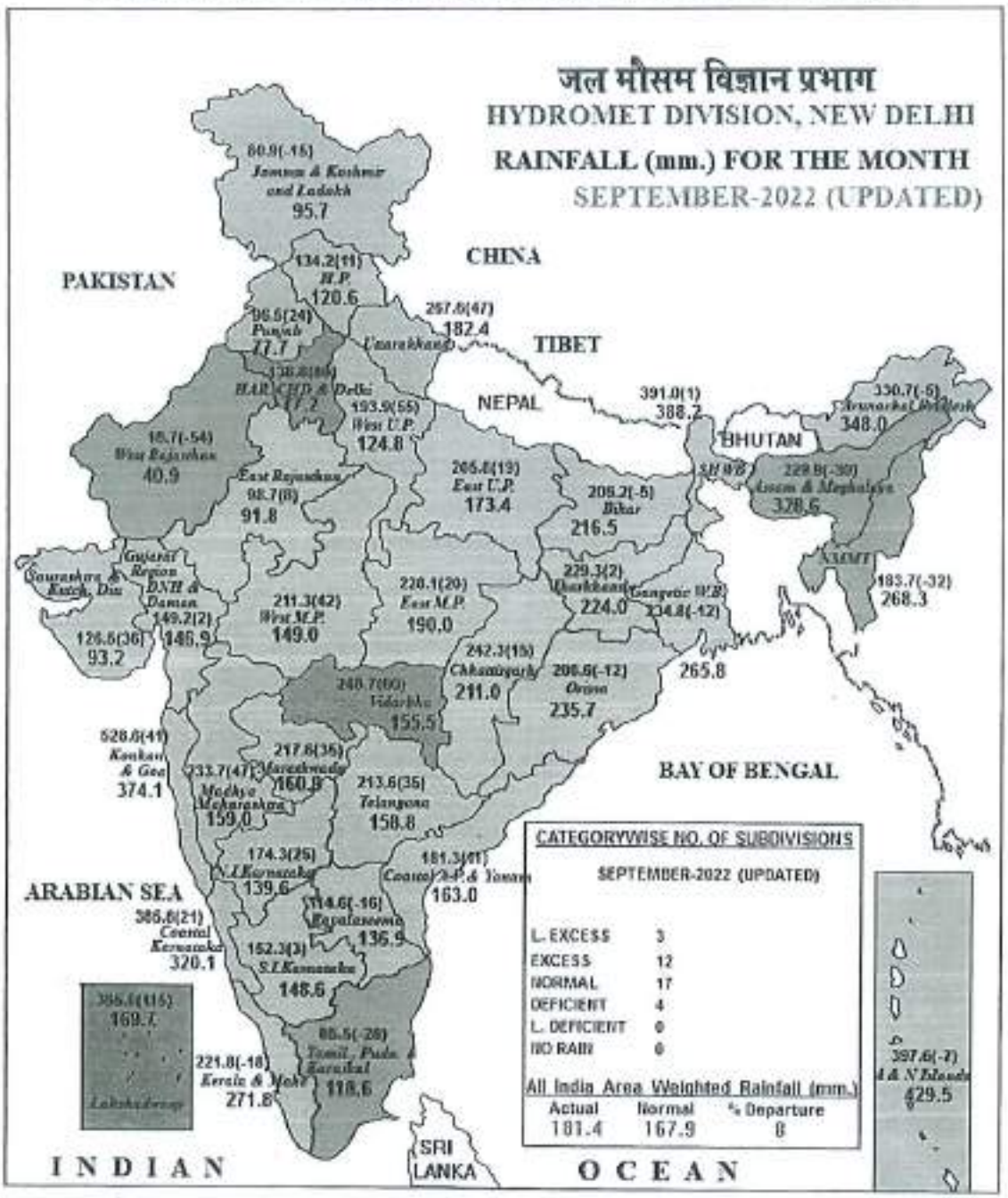
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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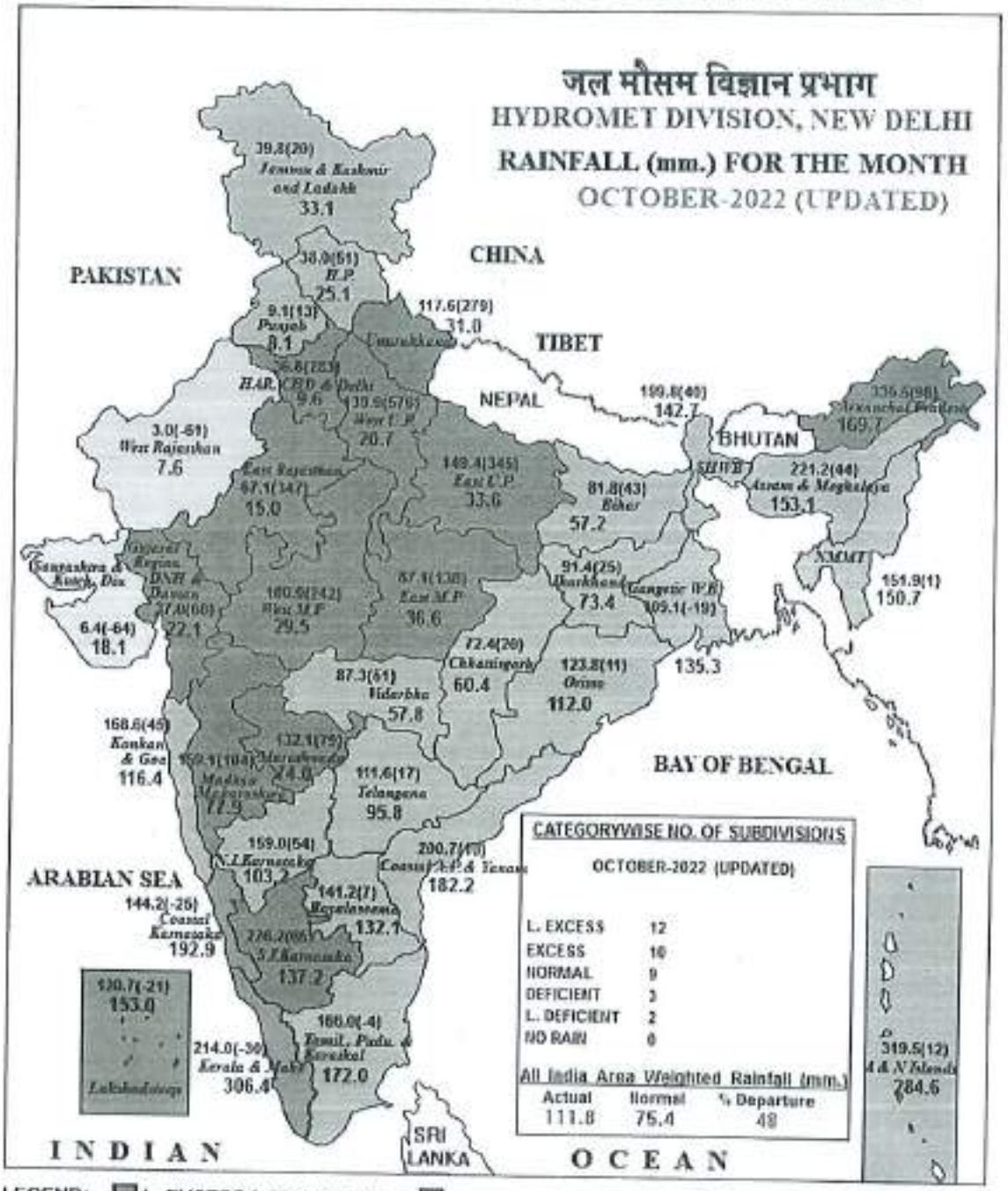
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग
HYDROMET DIVISION, NEW DELHI
RAINFALL (mm.) FOR THE MONTH
OCTOBER-2022 (UPDATED)



CATEGORYWISE NO. OF SUBDIVISIONS

OCTOBER-2022 (UPDATED)

L. EXCESS	12
EXCESS	10
NORMAL	9
DEFICIENT	3
L. DEFICIENT	2
NO RAIN	0

All India Area Weighted Rainfall (mm.)

Actual	Normal	% Departure
111.8	75.4	48

LEGEND: L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%)
DEFICIENT (-20% TO -59%) L. DEFICIENT (-60% TO -99%) NO RAIN (-100%) NO DATA

NOTES:
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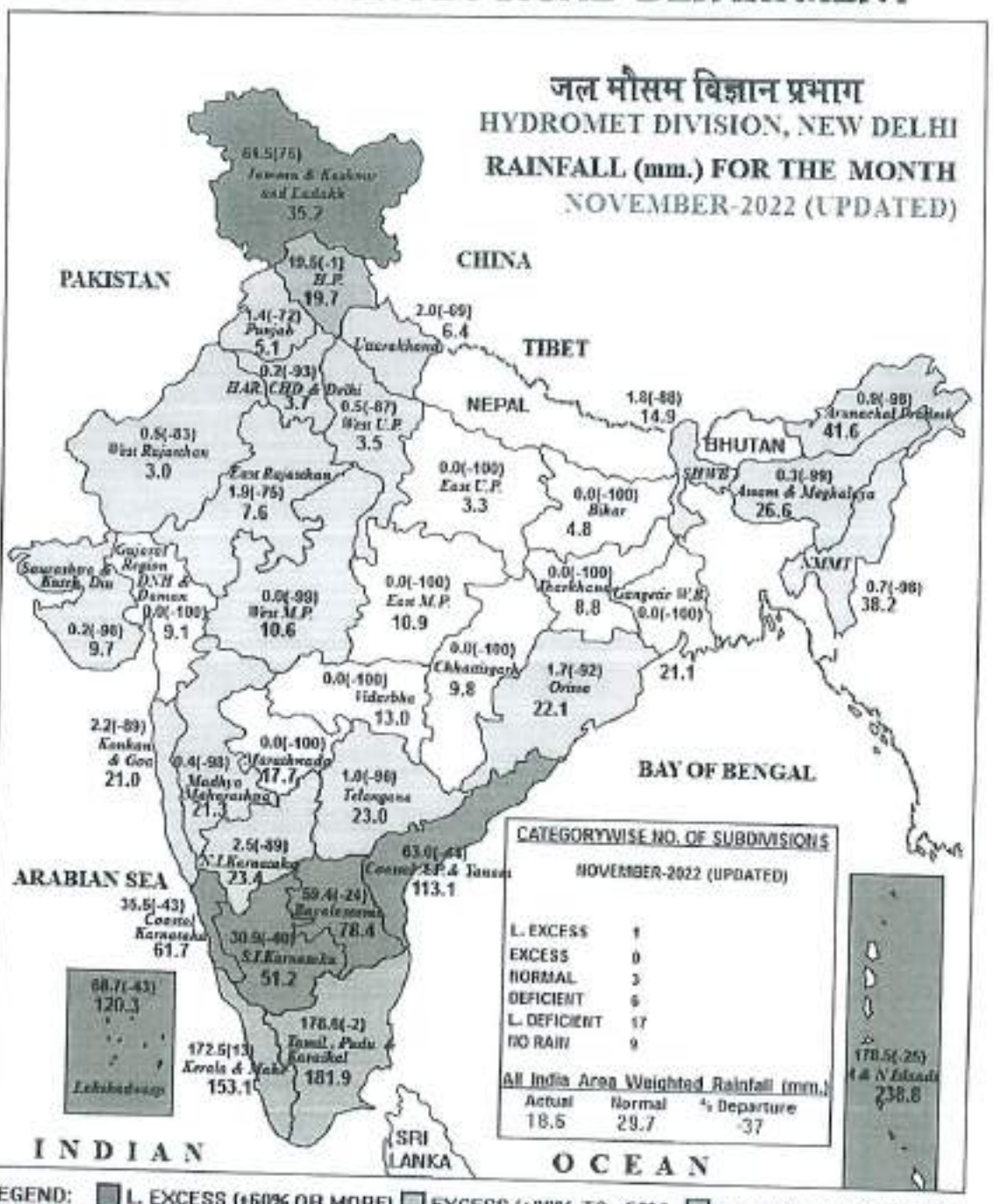
Percentage Departures of Rainfall are shown in Brackets.

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



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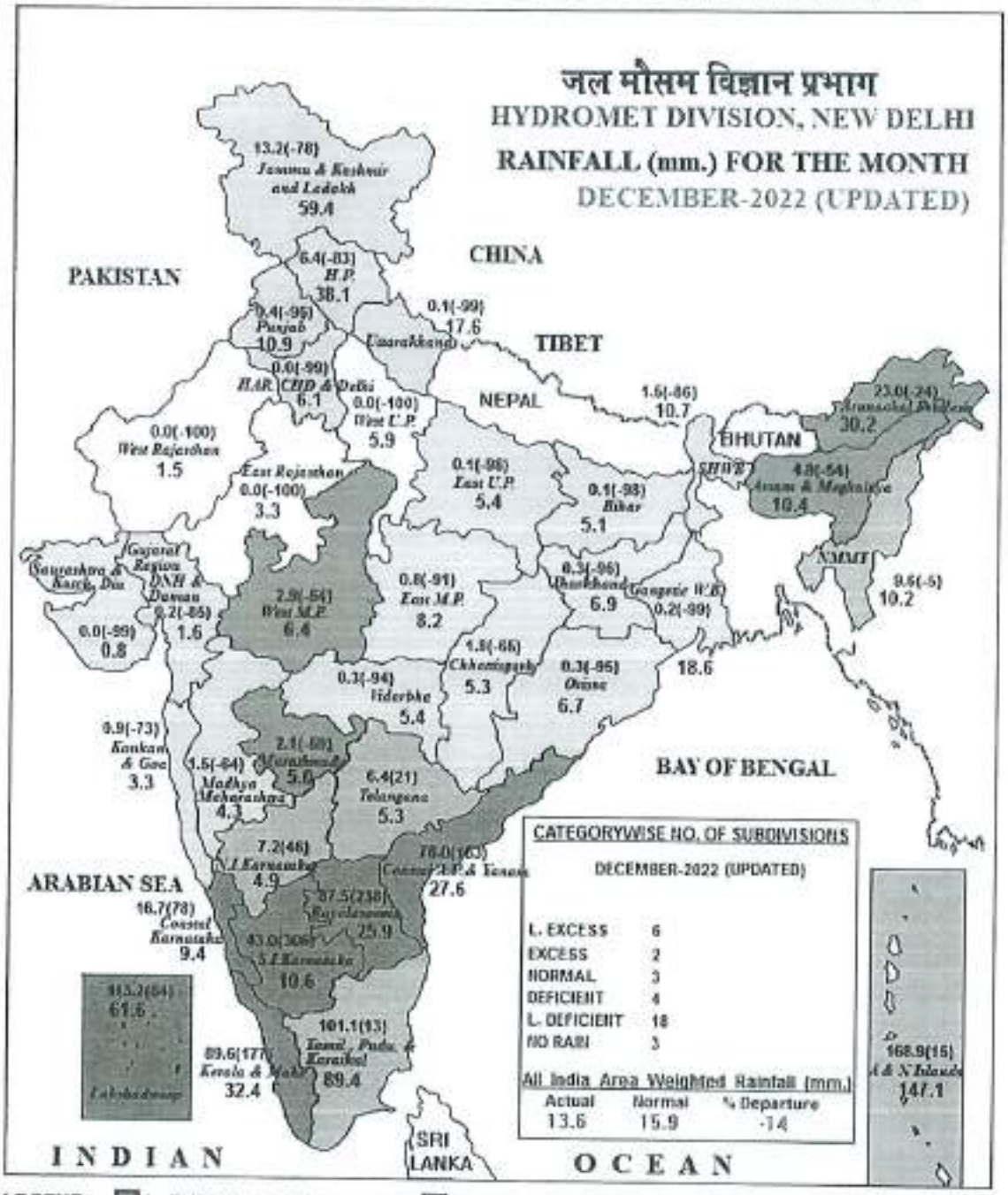
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

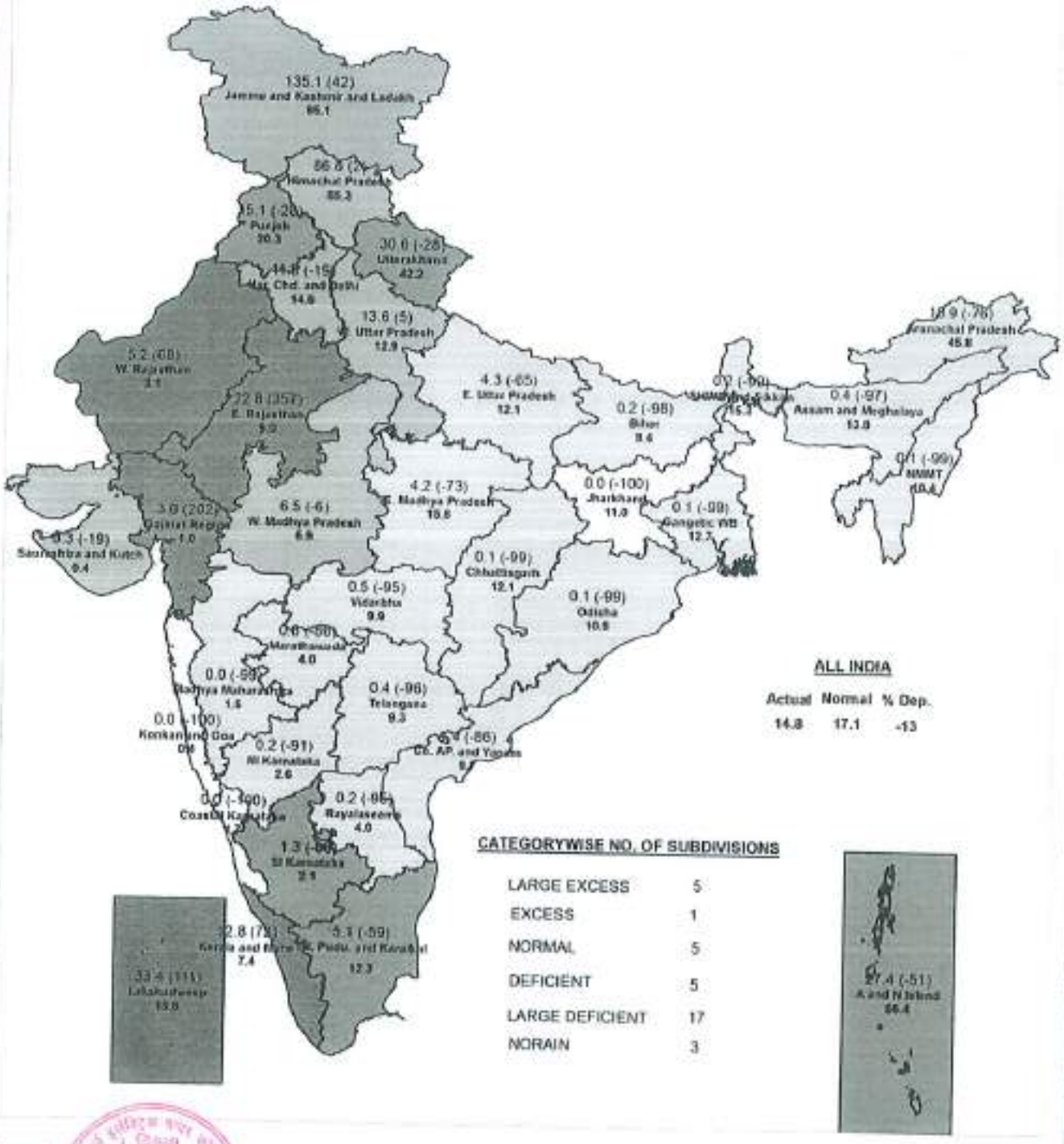


भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-01-2023 To 31-01-2023 (UPDATED)



ALL INDIA

Actual	Normal	% Dep.
14.8	17.1	-13

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	5
EXCESS	1
NORMAL	5
DEFICIENT	5
LARGE DEFICIENT	17
NORAIN	3

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES :

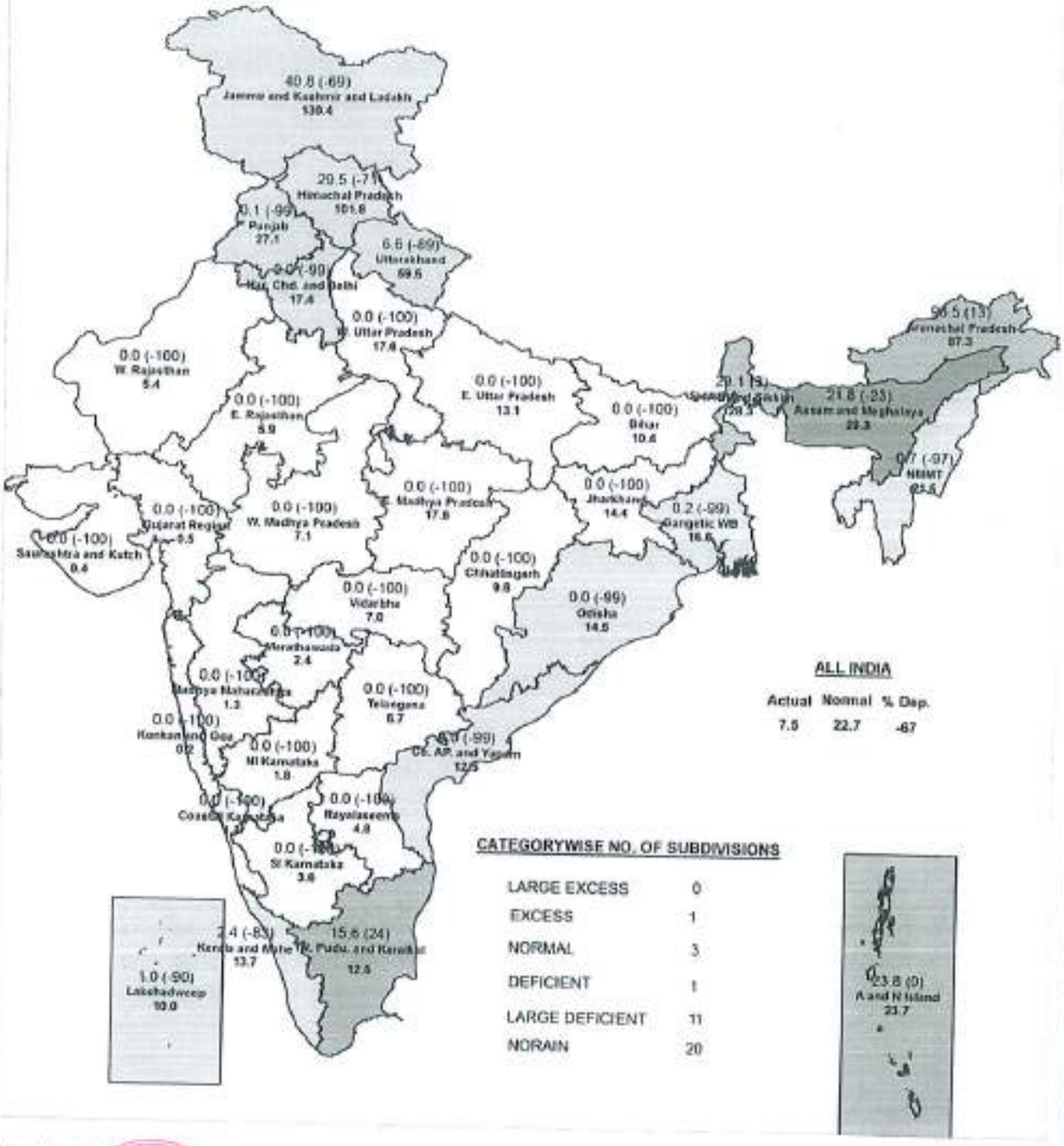
a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-02-2023 To 28-02-2023 (PROVISIONAL)



ALL INDIA

Actual	Normal	% Dep.
7.5	22.7	-67

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	0
EXCESS	1
NORMAL	3
DEFICIENT	1
LARGE DEFICIENT	11
NORAIN	20

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES :
a) Rainfall figures are based on operation data.
b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
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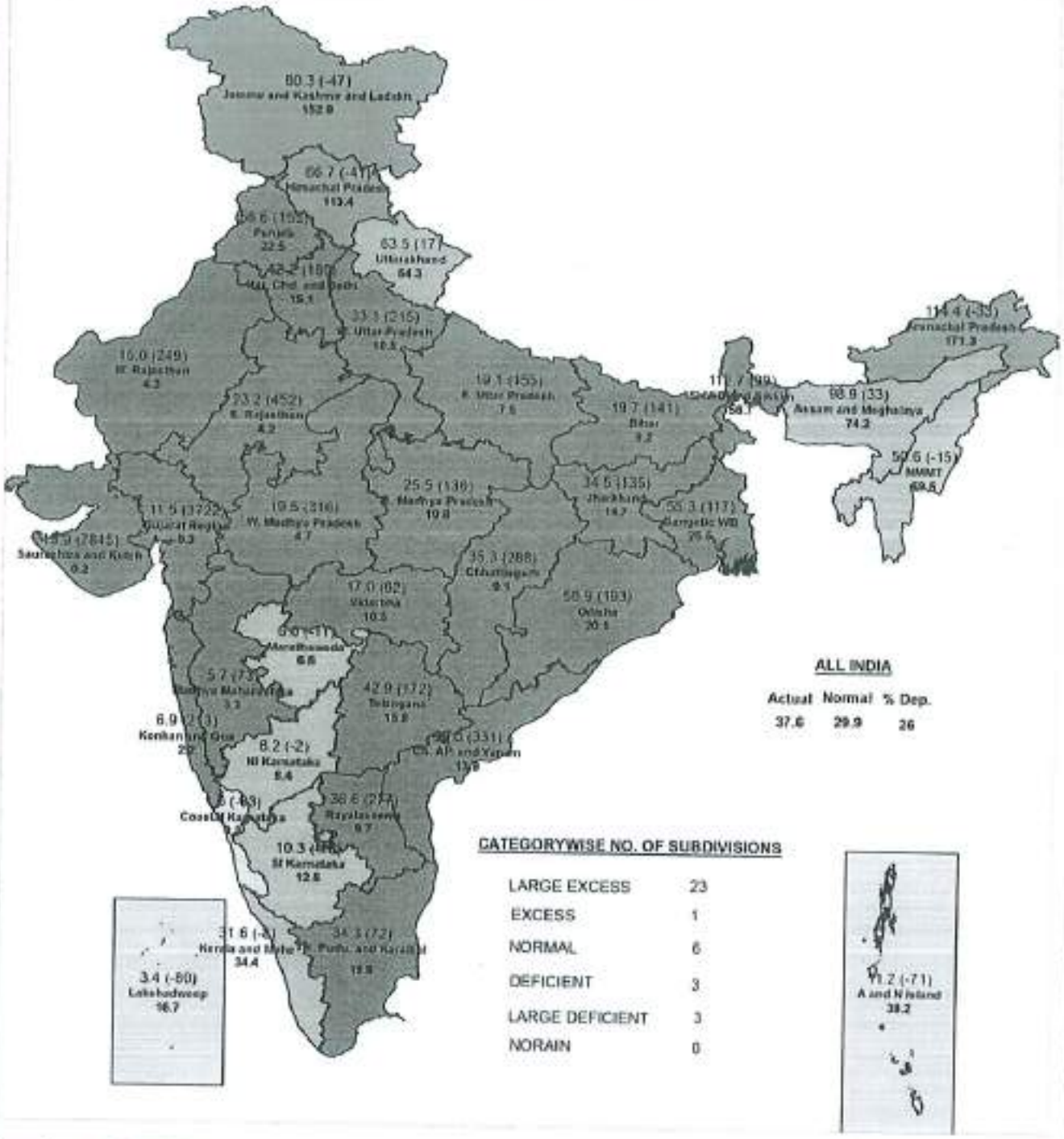
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-03-2023 To 31-03-2023 (UPDATED)



ALL INDIA

Actual	Normal	% Dep.
37.6	29.9	26

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	23
EXCESS	1
NORMAL	6
DEFICIENT	3
LARGE DEFICIENT	3
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

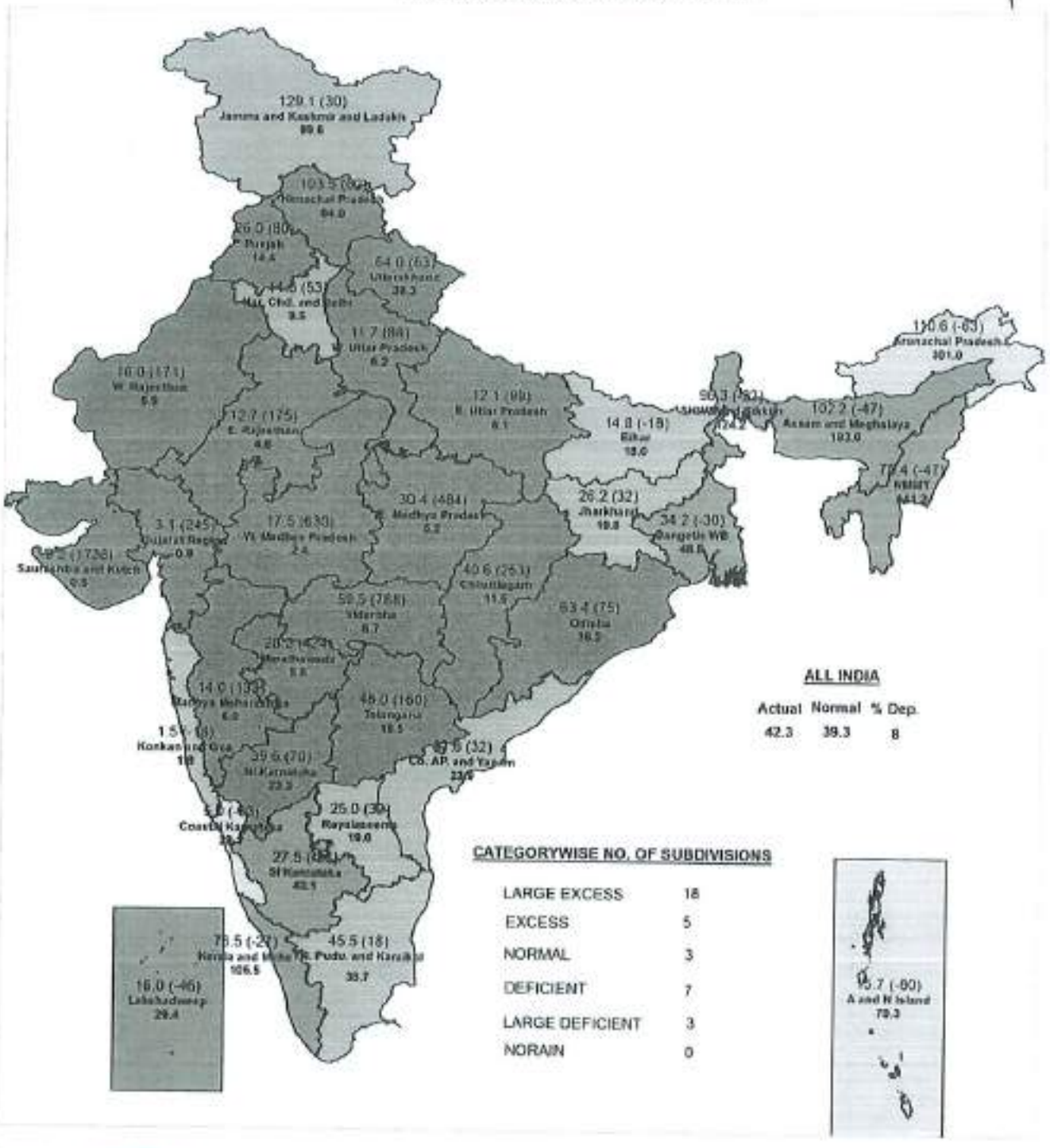
NOTES :
a) Rainfall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-04-2023 To 30-04-2023 (1 PDAY(S))



ALL INDIA

Actual	Normal	% Dep.
42.3	39.3	8

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	18
EXCESS	5
NORMAL	3
DEFICIENT	7
LARGE DEFICIENT	3
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

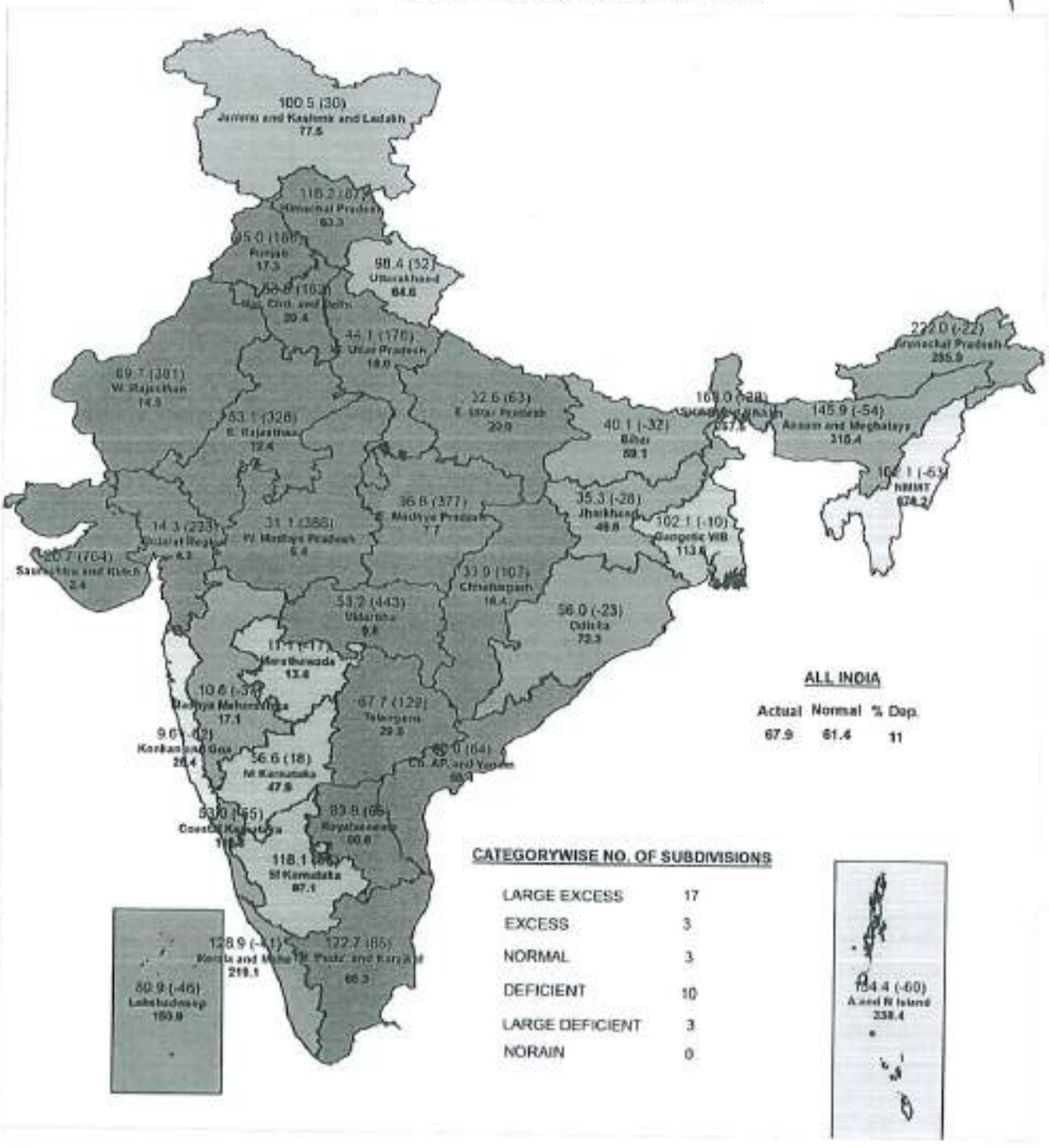
NOTES :
a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-05-2023 To 31-05-2023 (UPDATED)



ALL INDIA

Actual	Normal	% Dep.
67.9	61.4	11

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	17
EXCESS	3
NORMAL	3
DEFICIENT	10
LARGE DEFICIENT	3
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES :

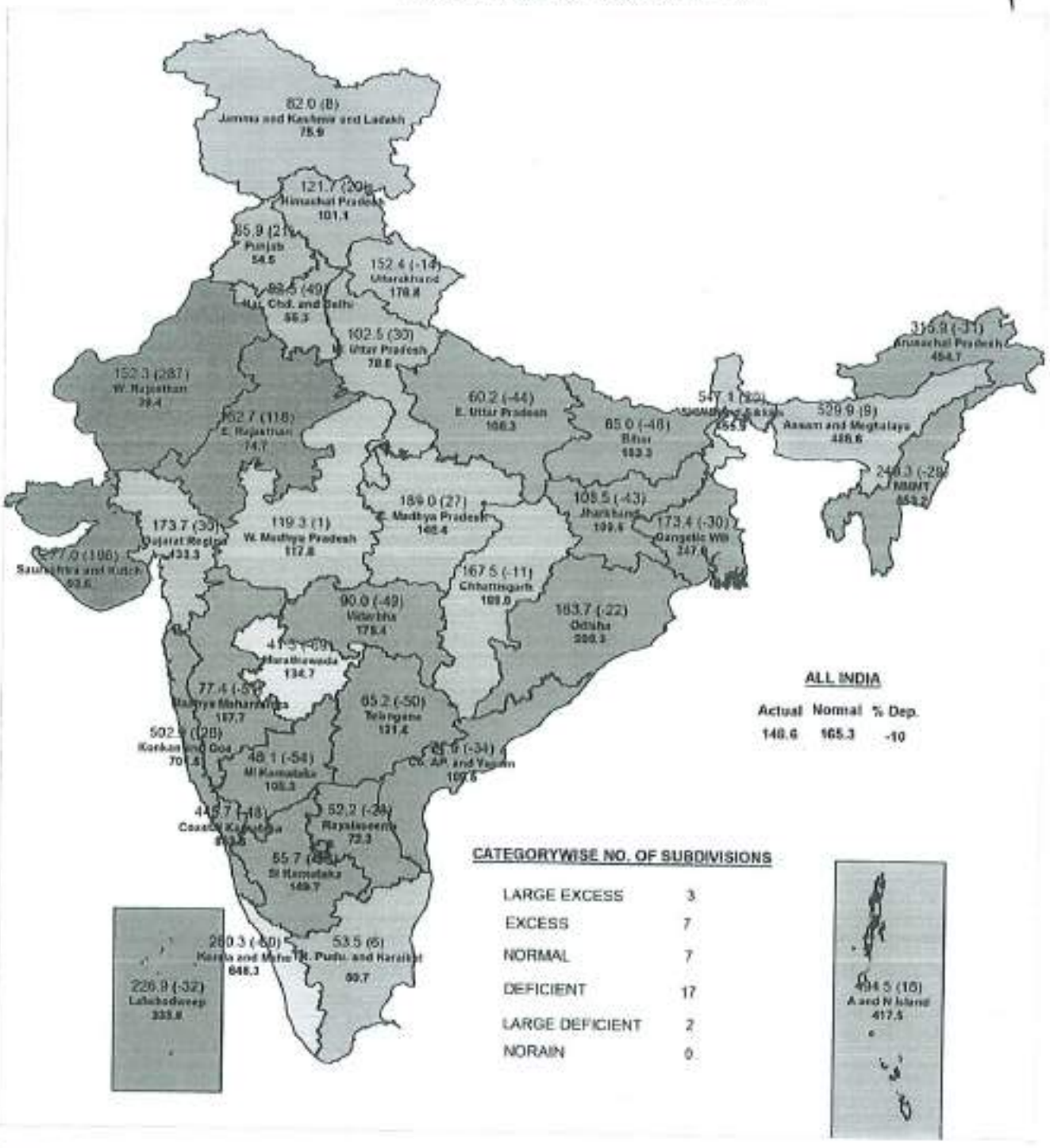
a) Rainfall figures are based on operation data.
b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-06-2023 To 30-06-2023 (REAL TIME)



ALL INDIA

Actual	Normal	% Dep.
148.6	165.3	-10

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	3
EXCESS	7
NORMAL	7
DEFICIENT	17
LARGE DEFICIENT	2
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES :
a) Rainfall figures are based on operation data.
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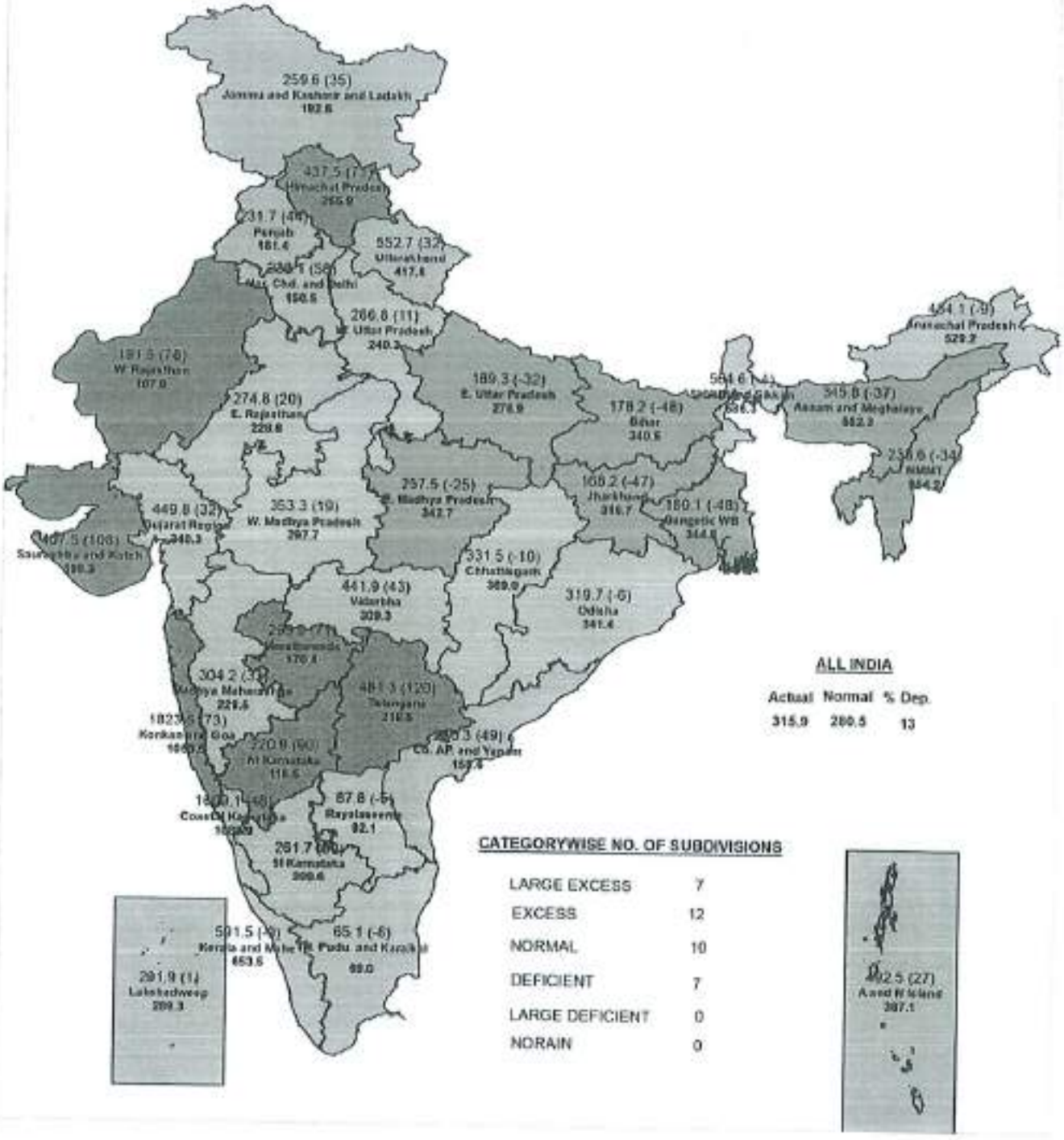
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-07-2023 To 31-07-2023 (REALTIME)



ALL INDIA

Actual	Normal	% Dep.
315.9	280.5	13

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	7
EXCESS	12
NORMAL	10
DEFICIENT	7
LARGE DEFICIENT	0
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES :

a) Rainfall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).
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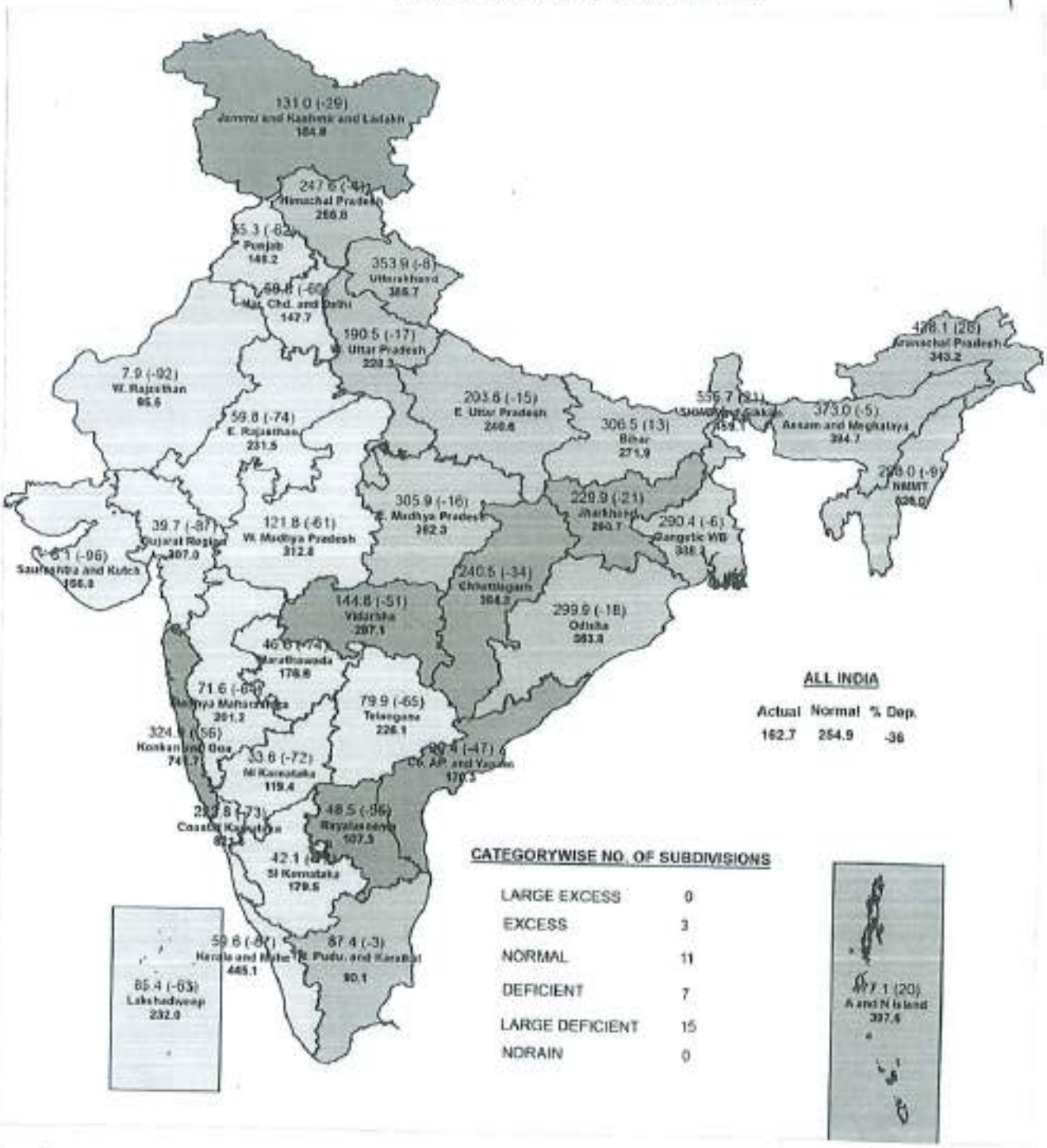
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-08-2023 To 31-08-2023 (REALTIME)



Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

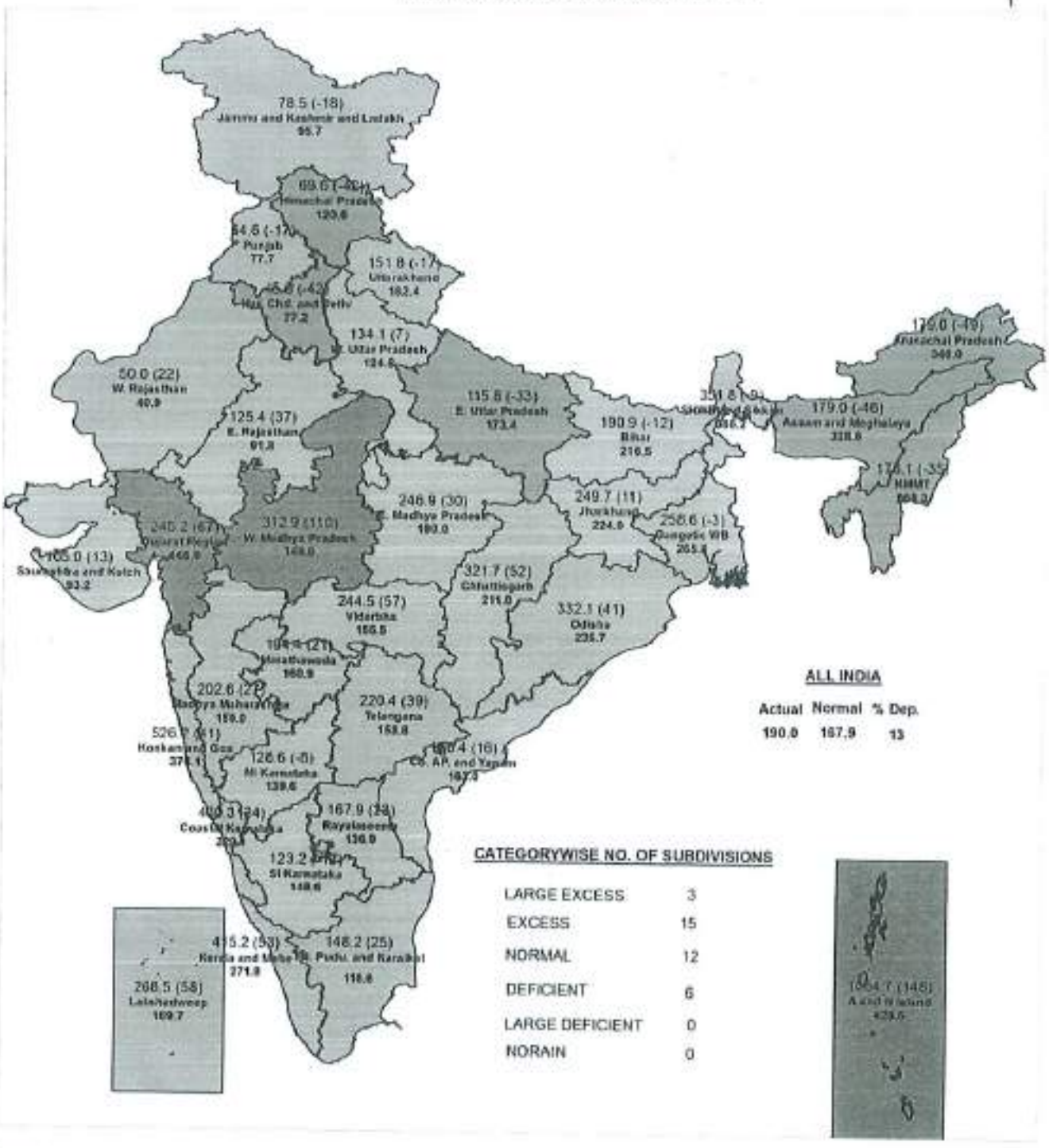
NOTES :
a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-09-2023 To 30-09-2023 (REALTIME)



ALL INDIA

Actual	Normal	% Dep.
190.9	167.9	13

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	3
EXCESS	15
NORMAL	12
DEFICIENT	6
LARGE DEFICIENT	0
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES:
a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

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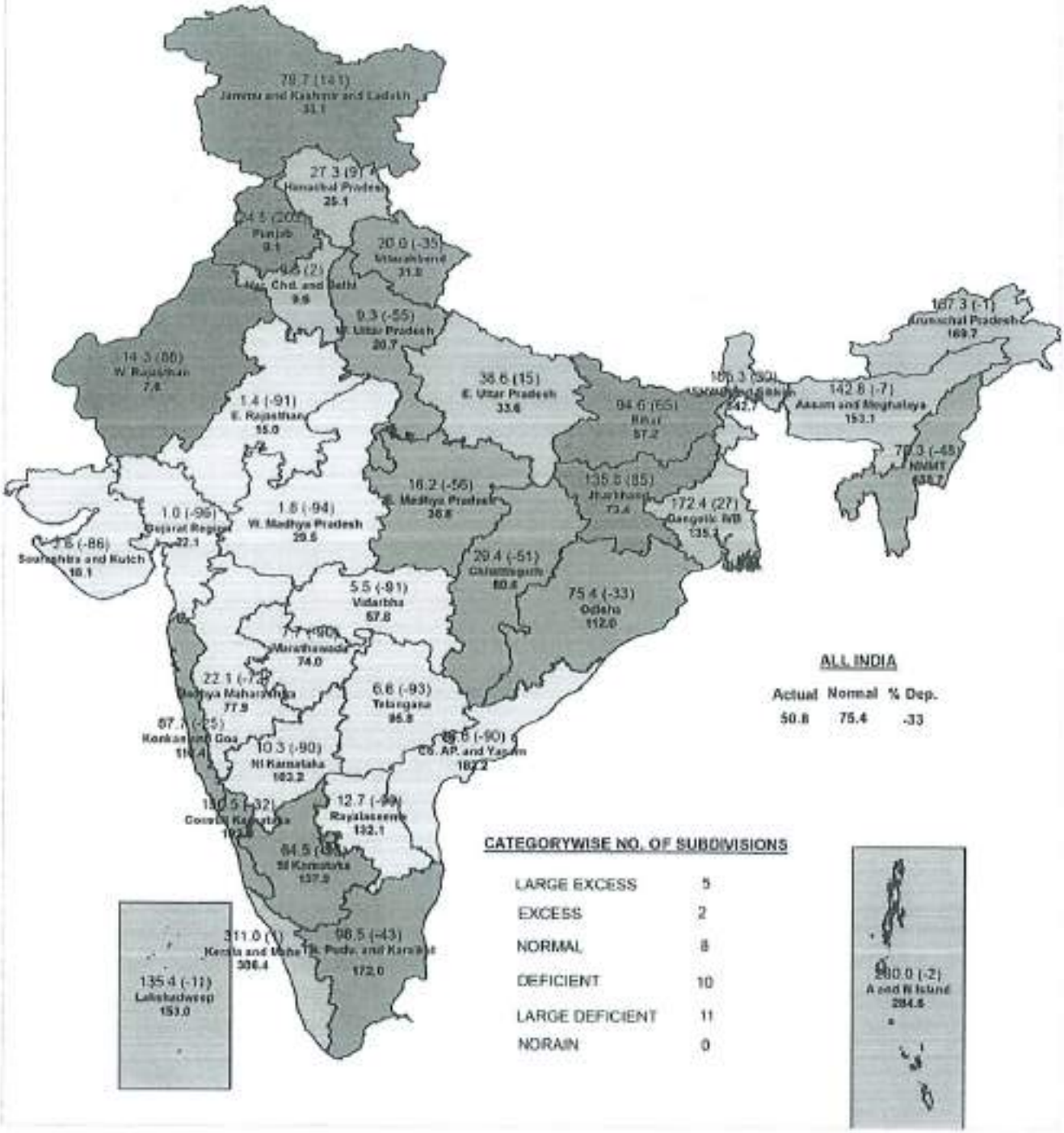
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-10-2023 To 31-10-2023 (REAL TIME)



ALL INDIA

Actual	Normal	% Dep.
50.8	75.4	-33

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	5
EXCESS	2
NORMAL	8
DEFICIENT	10
LARGE DEFICIENT	11
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

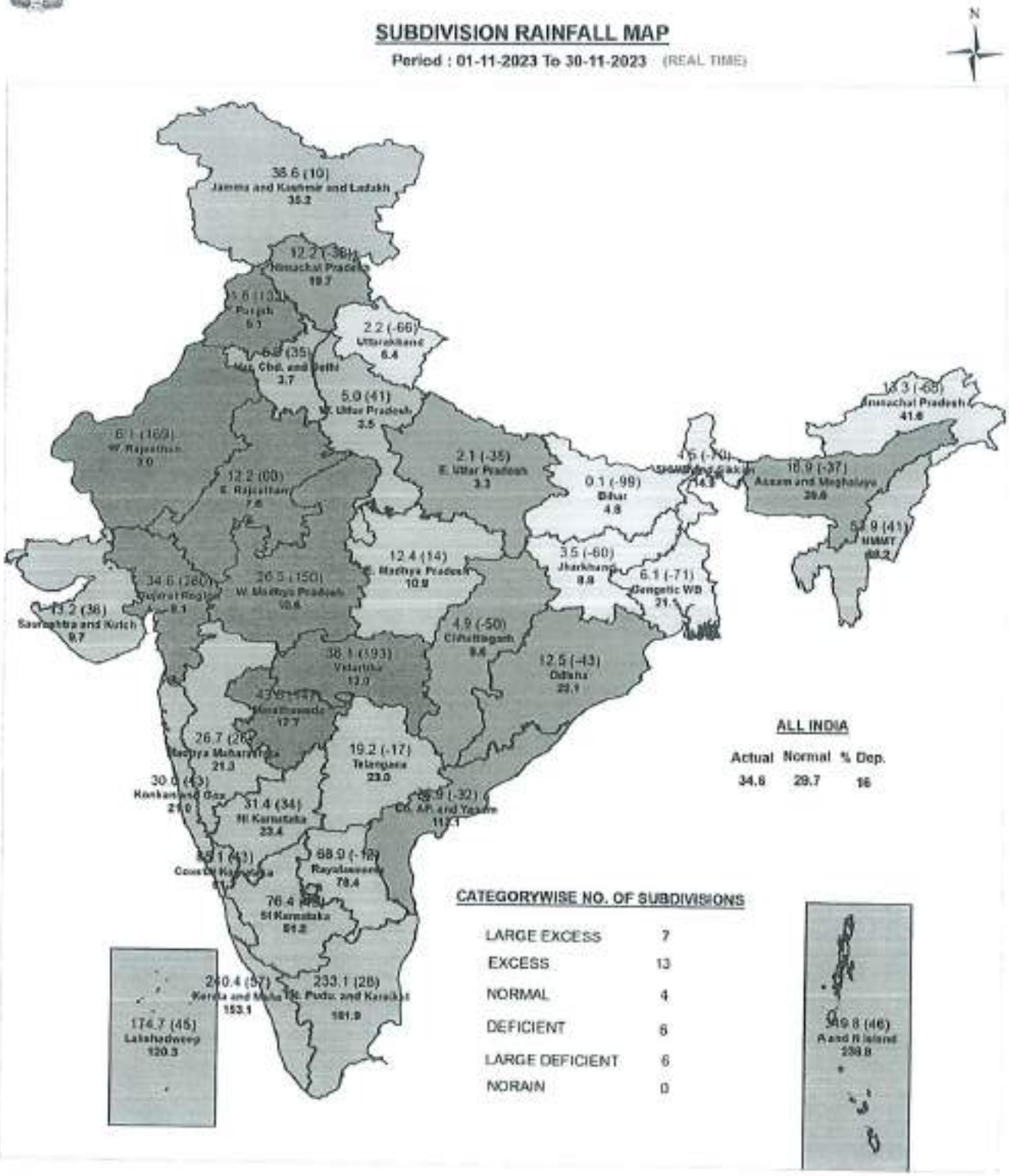
NOTES :
a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Nomal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान पखाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-11-2023 To 30-11-2023 (REAL TIME)



ALL INDIA

Actual	Normal	% Dep.
34.6	29.7	16

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	7
EXCESS	13
NORMAL	4
DEFICIENT	6
LARGE DEFICIENT	6
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES :

a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

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INDIA METEOROLOGICAL DEPARTMENT

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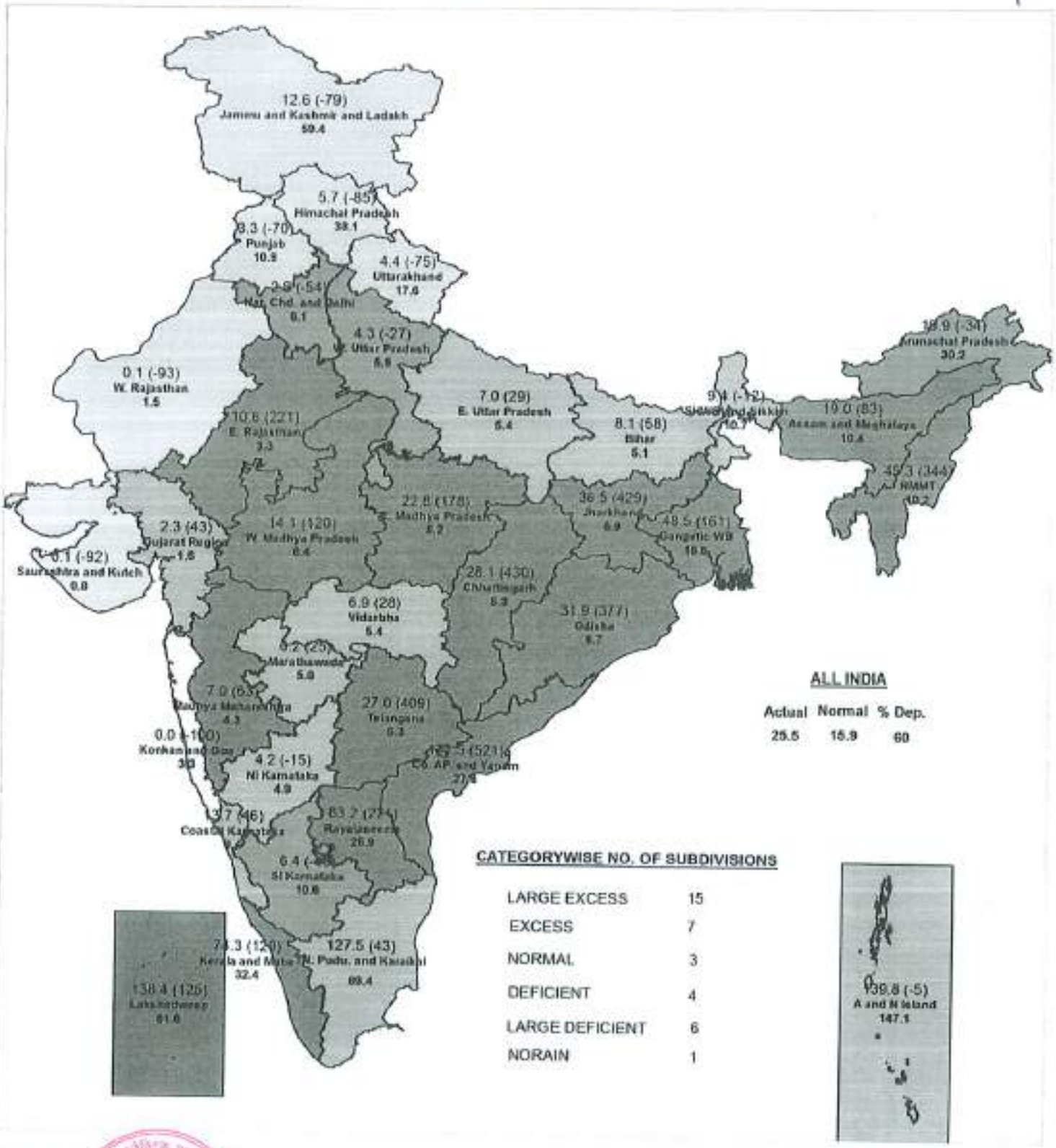
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-12-2023 To 31-12-2023 (UPDATED)



ALL INDIA

Actual	Normal	% Dep.
25.5	15.9	60

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	15
EXCESS	7
NORMAL	3
DEFICIENT	4
LARGE DEFICIENT	6
NORAIN	1

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES :

a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

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INDIA METEOROLOGICAL DEPARTMENT

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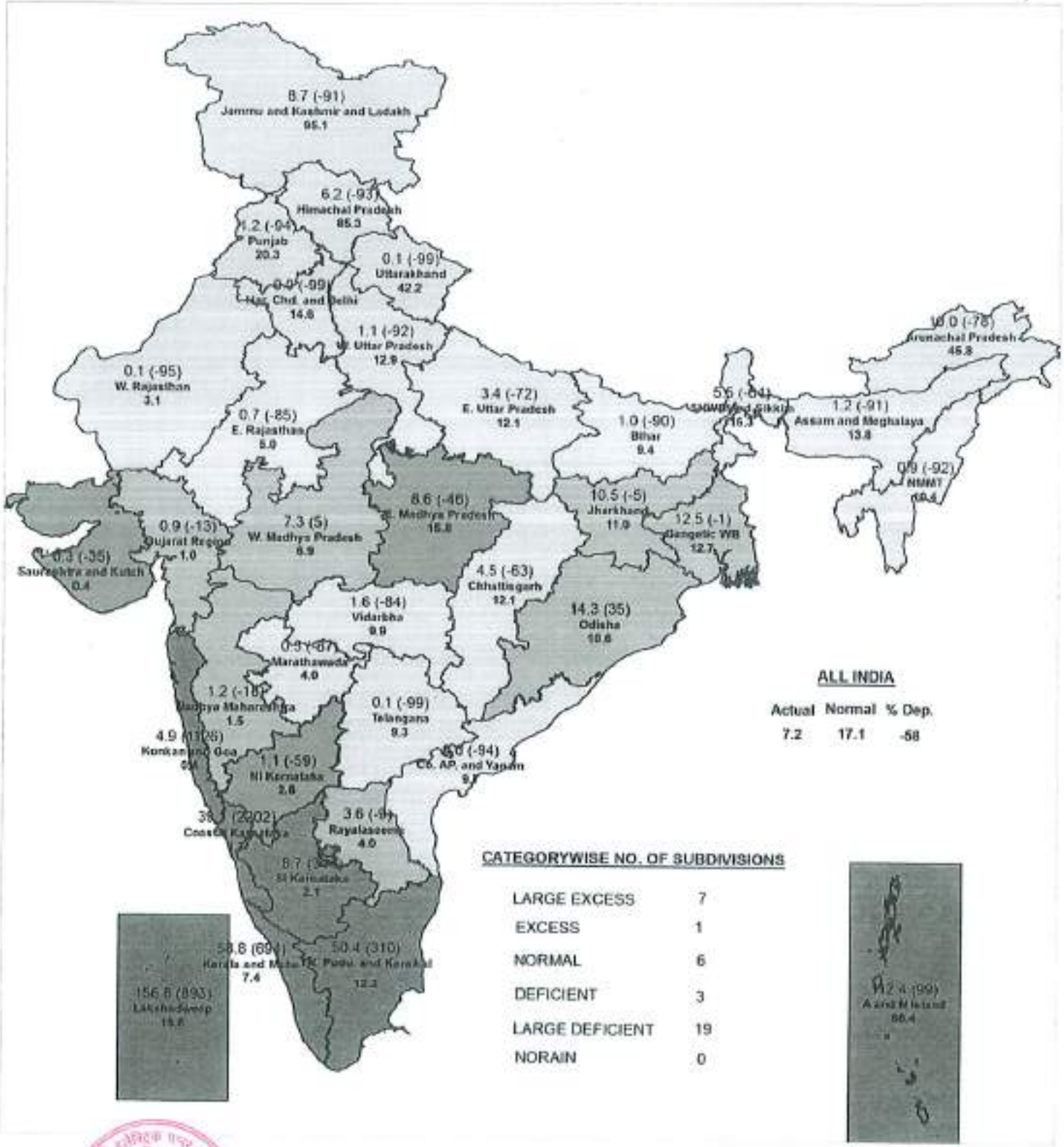
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-01-2024 To 31-01-2024 (REAL TIME)



ALL INDIA

Actual	Normal	% Dep.
7.2	17.1	-58

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	7
EXCESS	1
NORMAL	6
DEFICIENT	3
LARGE DEFICIENT	19
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES :

a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

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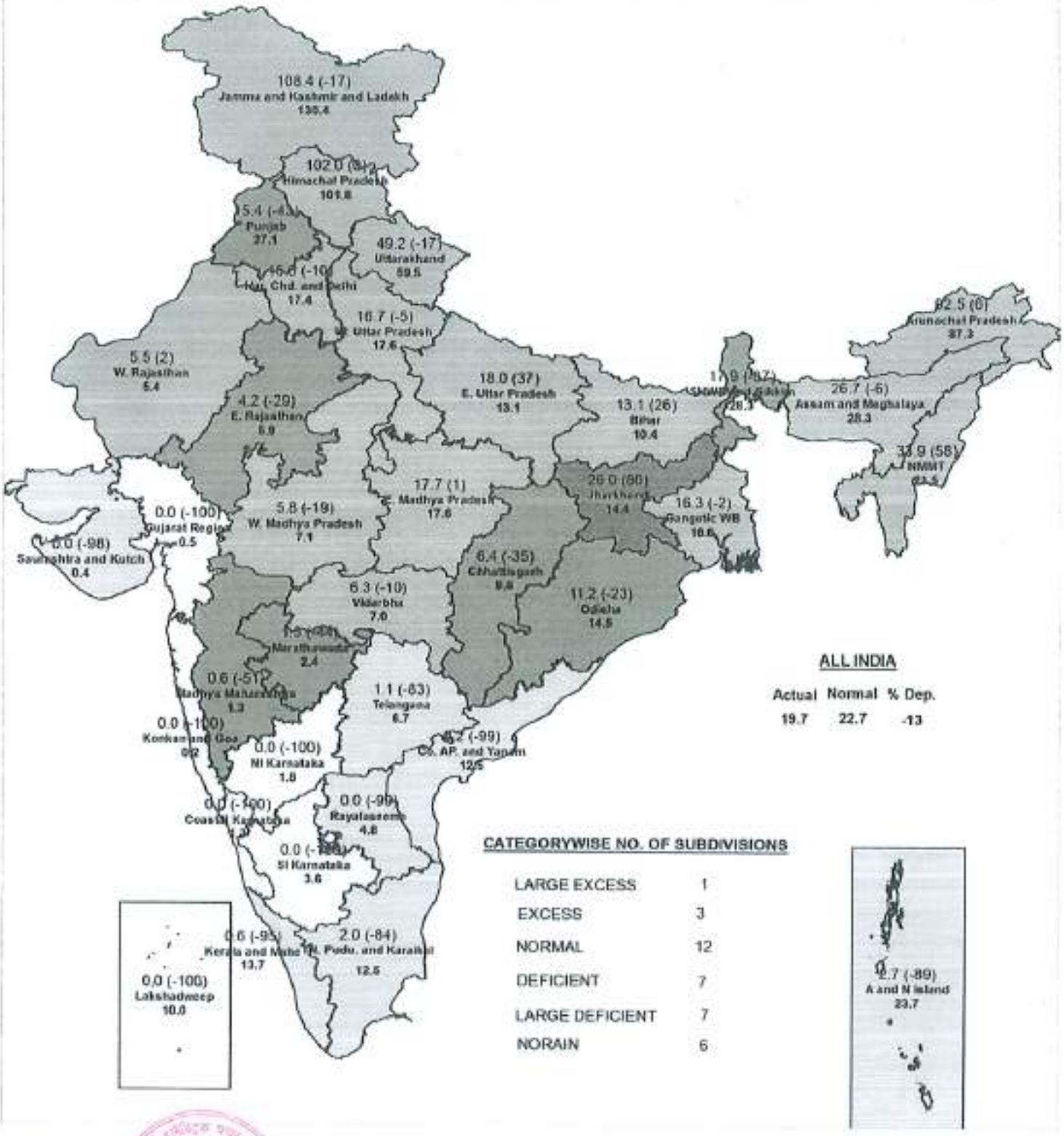
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-02-2024 To 29-02-2024 (REAL TIME)



ALL INDIA

Actual	Normal	% Dep.
19.7	22.7	-13

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	1
EXCESS	3
NORMAL	12
DEFICIENT	7
LARGE DEFICIENT	7
NORAIN	6

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No Data

NOTES :

a) RainFall figures are based on operation data.
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c) Percentage Departures of rainfall are shown in brackets.

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INDIA METEOROLOGICAL DEPARTMENT

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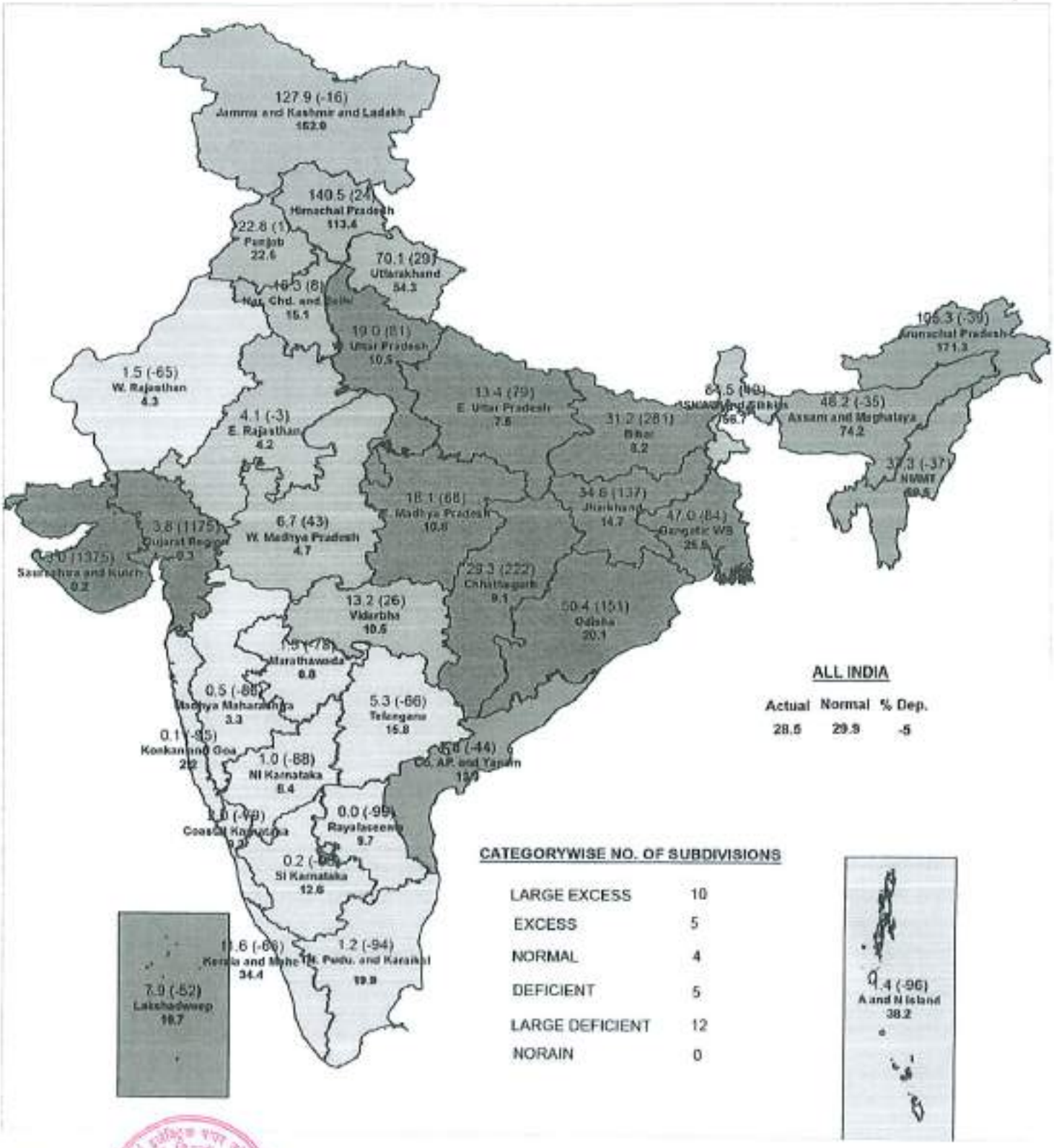
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-03-2024 To 31-03-2024 (REAL TIME)



ALL INDIA

Actual	Normal	% Dep.
28.5	29.9	-5

CATEGORYWISE NO. OF SUBDIVISIONS

LARGE EXCESS	10
EXCESS	5
NORMAL	4
DEFICIENT	5
LARGE DEFICIENT	12
NORAIN	0

Legend

Large Excess [60% or more] | Excess [20% to 59%] | Normal [-19% to 19%] | Deficient [-59% to -20%] | Large Deficient [-99% to -60%] | No Rain [-100%] | No D

NOTES :

a) RainFall figures are based on operation data.
b) *Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).*
c) Percentage Departures of rainfall are shown in brackets.

ANNEXURE -I

CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

No.L-1/268/2022/CERC Dated 15th March, 2024

(NOTIFICATION)

In the exercise of powers conferred under section 178 of the Electricity Act, 2003 (36 of 2003) read with Section 61 thereof and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

CHAPTER – 1

PRELIMINARY

1. **Short title and commencement.** (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

(2) These regulations shall come into force on 1.4.2024, and, unless reviewed earlier or extended by the Commission, shall remain in force for a period of five years from 1.4.2024 to 31.3.2029:

Provided that where a generating station or unit thereof and transmission system or an element thereof, has been declared under commercial operation before the date of commencement of these regulations and whose tariff has not been finally determined by the Commission till that date, tariff in respect of such generating station or unit thereof and transmission system or an element thereof for the period ending 31.3.2024 shall be determined in accordance with the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 as amended from time to time.

(5) The energy charge shall be payable by every beneficiary for the total energy scheduled to be supplied to the beneficiary, excluding free energy, if any, during the calendar month, on the ex-bus basis, at the computed energy charge rate. The total energy charge payable to the generating company for a month shall be:

Energy Charges = (Energy charge rate in Rs. / kWh) x {Scheduled energy (ex-bus) for the month in kWh} x (100 – FEHS) / 100

(6) Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis, for a hydro generating station, shall be determined up to three decimal places based on the following formula, subject to the provisions of clause (8) of this Regulation:

ECR = AFC x 0.5 x 10 / {DE x (100 – AUX) x (100 – FEHS)}

Where,

DE = Annual design energy specified for the hydro generating station, in MWh, subject to the provision in clause (7) below.

FEHS = Free energy for home State, in per cent, as mentioned in EXPLANATION-III under Regulation 76 of these regulations.

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.

Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating

station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

(9) In case the energy charge rate (ECR) for a hydro generating station, computed as per clause (5) of this Regulation exceeds one hundred and thirty paise per kWh, and the actual saleable energy in a year exceeds {DE x (100- AUX) x (100 - FEHS) /10000} MWh, the energy charge for the energy in excess of the above shall be billed at one hundred and thirty paise per kWh only.

(10) In addition to the above, an incentive shall be payable to a ROR Hydro generating station @ 50 paise/ kWh corresponding to the saleable scheduled energy during peak hours of the day in excess of average saleable scheduled energy during the day (24 hours).

66. **Computation and Payment of Capacity Charge and Energy Charge for Pumped Storage Hydro Generating Stations:**

(1) The fixed cost of a pumped storage hydro generating station shall be computed on an annual basis, based on norms specified under these regulations, and recovered on a monthly basis as a capacity charge. The capacity charge shall be payable by the beneficiaries in proportion to their respective allocation in the saleable capacity of the generating station;

Provided that during the period between the date of commercial operation of the first unit of the generating station and the date of commercial operation of the generating station, the annual fixed cost shall be worked out based on the latest estimate of the completion cost for the generating station, for the purpose of determining the capacity charge payment during such period.

Name of the Company: NORTH EASTERN ELECTRIC POWER CORPORATION LTD
Name of the Power Station: Doyang Hydro Power Station (75 MW)
(hereinafter referred to as DHPS)

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 Doyang Hydro Power Station (75 MW) (hereinafter referred to as **DHPS**) 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.

(Debjani Dey)
ED(Commercial)
NEEPCO Ltd., Shillong

कार्यपालक निदेशक (वाणिज्यिक)
Executive Director (Comml)
नीपको लि. शिलांग
NEEPCO Ltd. Shillong

DHPS