<table>
<tr><th>Sl. No.</th><th>Diary No.</th><th>Questions</th><th>Replies</th></tr>
<tr><td>1</td><td>RSQ,-U441 , NEEPCO's reply Dt. 15.07.2024.</td><td>1. What is the national average of employee cost on power generation;</td><td>The average of employee cost of NEEPCO is 2.13 lakhs per month per employee for the year 2023-24. NEEPCO is a power generating company, a wholly owned subsidiary of NTPC Ltd. with present installed capacity of 2057 MW, primarily operating in the NE region of the Country.</td></tr>
<tr><td></td><td></td><td>2. If so, details of the same state/UT wise?</td><td>Refer reply above at sl. no. (1).</td></tr>
<tr><td rowspan="7">2</td><td rowspan="7">LSQ,-1188 , NEEPCO's reply Dt. 16.07.2024.</td><td>(a) The details of power generating from Hydro, Thermal and other sources and its quantity per year;</td><td>The power generation of NEEPCO from Hydro, Thermal and Solar for last three and current financial years are furnished below:
<table>
<tr><th rowspan="2">Sl. No.</th><th rowspan="2">Power Generation from</th><th>2021-22</th><th>2022-23</th><th>2023-24</th><th>2024-25 (Up to 14.07.2024)</th></tr>
<tr><th>MU</th><th>MU</th><th>MU</th><th>MU</th></tr>
<tr><td>1</td><td>Hydro</td><td>4685.27</td><td>5202.32</td><td>4998.03</td><td>1745.05</td></tr>
<tr><td>2</td><td>Thermal</td><td>3429.05</td><td>3282.94</td><td>2997.16</td><td>811.24</td></tr>
<tr><td>3</td><td>Other sources (i.e. Solar)</td><td>5.98</td><td>6.74</td><td>5.68</td><td>1.63</td></tr>
<tr><td></td><td>Total:</td><td>8120.30</td><td>8492.00</td><td>8000.87</td><td>2557.91</td></tr>
</table></td></tr>
<tr><td>(b) The details of the demand of power, State-wise;</td><td>The details of electricity energy requirement in million units (MU) and peak electricity demand in (MW) for different States and UTs of India as per the 20th Electric Power Survey of India are annexed as Annexure-I & II.</td></tr>
<tr><td>(c) Whether the State Governments had inter-state agreements for power distribution and sharing;</td><td></td></tr>
<tr><td>(d) If so, the details thereof;</td><td>Refer reply at (c) above.</td></tr>
<tr><td>(e) Whether the Government noticed that tariff differences among various states; and</td><td>Based on the completed capital cost of the power station, NEEPCO files the tariff Petition before the Hon'ble Central Electricity Regulatory Commission (CERC). After prudent check Hon'ble Commission issues the order and based on the order NEEPCO billed to the beneficiary States.</td></tr>
<tr><td>(f) If so, the steps taken/being taken to uniform the power tariff in the country?</td><td>Refer reply at (e) above.</td></tr>
<tr><td rowspan="2">3(a)</td><td>RSQ,-U1549, NEEPCO's reply Dt. 18.07.2024.</td><td>(a) Whether the Ministry has initiated any efforts to harness the hydro potential, including hydro pumped storage potential, in Goa? If yes, details thereof.</td><td>All the hydro projects of NEEPCO are located in the North Eastern Region of the Country and NEEPCO is yet to develop any hydro / pumped storage project in the State of Goa.</td></tr>
<tr><td></td><td>(b) The current estimated hydro potential in Goa and other states across the country?</td><td>Refer reply at (a) above. However, as per the reassessment studies by the Central Electricity Authority (CEA), the estimated hydro potential (above 25 MW) for all States and UTs of India including Goa is annexed as Annexure - I.</td></tr>
<tr><td></td><td></td><td>(c) Project Reports (DPRs) for hydro projects in India that have been approved by the Central Electricity Authority (CEA) in the last 10 years? Please provide details and a state-wise breakdown.</td><td>Detailed Project Reports (DPRs) for hydro projects that have been concurred by the CEA during last 10 years and which are being taken up by NEEPCO for development are as follows:
<table>
<tr><th>Sl. No.</th><th>Hydro Projects</th><th>Location</th><th>Original approved date of DPR/ Concurrence to earlier Developers</th><th>Transfer of Concurrence/ DPR in favour of NEEPCO</th></tr>
<tr><td>1</td><td>Heo HEP (240 MW)</td><td rowspan="5">Arunachal Pradesh</td><td>July, 2015</td><td rowspan="5">October, 2023</td></tr>
<tr><td>2</td><td>Tato-I HEP (186 MW)</td><td>October, 2015</td></tr>
<tr><td>3</td><td>Tato-II HEP (700 MW)</td><td>May, 2012</td></tr>
<tr><td>4</td><td>Naying HEP (1000 MW)</td><td>September, 2013</td></tr>
<tr><td>5</td><td>Nafra HEP (120 MW)</td><td>February, 2011</td><td>June, 2023</td></tr>
<tr><td>6</td><td>Wah Umiam HEP (St.-III) (85MW)</td><td>Meghalaya</td><td colspan="2">July 2021 (DPR prepared by NEEPCO)</td></tr>
</table></td></tr>
</table>

		(d) How many DPRs are currently being prepared for hydro projects across the country?	The DPRs of following hydro projects are currently being prepared by NEEPCO: i.Kurung HE Project (330 MW), Arunachal Pradesh ii.Hirong HE Project (500 MW), Arunachal Pradesh: DPR concurred by CEA on 10.04.2013 is being revised (updated) as per the revised e-flow norms of MoEF.

3(b) Annexure- I_ Hydro_Potential_ India_CEA_1549

STATUS OF LARGE HYDRO ELECTRIC POTENTIAL DEVELOPMENT **Annexure-I**
(In terms of Installed capacity - Above 25 MW)
As on 31.05.2024

Region / State	Identified Capacity as per Reassessment Study (1978-87)	Exploitable Identified Capacity as per Reassessment Study (2017-23)	Capacity In Operation		Capacity Under Active Construction $		Capacity on which Construction is held up	
	(MW)	(MW)	(MW)	%	(MW)	%	(MW)	%
NORTHERN								
Jammu & Kashmir	11567	12264.50	3360.00	27.40	3051.50	24.88	48	0.39
Ladakh	2046	707.00	89.00	12.59	0.00	0.00	0	0.00
Himachal Pradesh	18470	18305.00	10281.00	56.16	2446.00	13.36	44	0.24
Punjab	971	1300.73	1096.30	84.28	206.00	15.84	0	0.00
Haryana	64	0.00	0.00	0.00	0.00	0.00	0	0.00
Rajasthan	483	411.00	411.00	100.00	0.00	0.00	0	0.00
Uttarakhand	17998	13481.35	4035.35	29.93	1264.00	9.38	247	1.83
Uttar Pradesh	664	501.60	501.60	100.00	0.00	0.00	0	0.00
Sub Total (NR)	**52263**	**46971.18**	**19774.25**	**42.10**	**6968**	**14.83**	**339.00**	**0.72**
WESTERN								
Madhya Pradesh	1970	2819.0	2235.0	79.28	0.0	0.00	400	14.19
Chhattisgarh	2202	1311.0	120.0	9.15	0.0	0.00	0	0.00
Gujarat	590	550.0	550.0	100.00	0.0	0.00	0	0.00
Maharashtra	3314	3144.0	2647.0	84.19	0.0	0.00	0	0.00
Goa	55	0.0	0.0	0.00	0.0	0.00	0	0.00
Sub total (WR)	**8131**	**7824.0**	**5552.0**	**70.96**	**0.0**	**0.00**	**400.0**	**5.11**
SOUTHERN								
Andhra Pradesh	3261	2596.0	1610.0	62.02	1190.0	45.84	0	0.00
Telangana	1099	1302.0	800.0	61.44	0.0	0.00	0	0.00
Karnataka	6459	4414.4	3689.20	83.57	0.0	0.00	0	0.00
Kerala	3378	2472.8	1864.15	75.39	140.0	5.66	0	0.00
Tamil Nadu	1693	1785.2	1778.20	99.61	0.0	0.00	0	0.00
Sub total (SR)	**15890**	**12570.4**	**9741.55**	**77.50**	**1330.0**	**10.58**	**0.0**	**0.00**
EASTERN								
Jharkhand	582	300.0	210.0	70.00	0.0	0.00	0	0.00
Bihar	40	130.1	0.0	0.00	0.0	0.00	0	0.00
Odisha	2981	2824.50	2154.55	76.28	0.0	0.00	0	0.00
West Bengal	2829	809.2	441.20	54.52	120.0	14.83	0	0.00
Sikkim	4248	6051.0	2282.0	37.71	620.0	10.25	417	6.89
Sub Total (ER)	**10680**	**10114.8**	**5087.75**	**50.30**	**740.00**	**7.32**	**417.0**	**4.12**
NORTH EASTERN								
Meghalaya	2298	2026.0	322.0	15.89	0.0	0.00	0	0.00
Tripura	0	0.0	0.0	0.00	0.0	0.00	0	0.00
Manipur	1761	615.0	105.0	17.07	0.0	0.00	0	0.00
Assam	650	643.0	350.0	54.43	120.0	18.66	0	0.00
Nagaland	1452	325.0	75.0	23.08	0.0	0.00	0	0.00
Arunachal Pradesh	50064	50394.0	1115.0	2.21	4880.0	9.68	0	0.00
Mizoram	2131	1926.7	60.0	3.11	0.0	0.00	0	0.00
Sub Total (NER)	**58356**	**55929.7**	**2027.0**	**3.62**	**5000.0**	**8.94**	**0.0**	**0.00**
ALL INDIA	**145320**	**133410**	**42182.55**	**31.62**	**14037.5**	**10.52**	**1156.0**	**0.87**

Note:- 1. Does not include pumped storage Projects.

2.2.In addition to above 8 PSS (4745.6 MW) are under operation, 4 PSS (4050 MW) are under active construction, 1 PSS (80 MW) on which construction is held up ,1 PSS (1000 MW) is Concurred by CEA, 39 PSS (55930 MW) are under S&I & 13 PSS (13620 MW) are under S&I Held Up.

$The above list includes 1 Multipurpose Project (MPP) namely Lakhwar MPP (300 MW) in Uttarakhand.

Note -2 Multi purpose projects (International Projects) are under examination (India and Nepal) namely, Pancheshwar MPP (2400 MW) whose DPR is being revised & Rupali Garh Regulating Dam (120 MW) which is Under S&I

4	RSQ,-S1544,NEEPCO's reply Dtd. 19.07.2024.	(a) The details of the ongoing hydel projects in Himachal Pradesh and the guidelines of Corporate Social Responsibility (CSR) under them; and	All the hydel projects of NEEPCO are located in the North Eastern Region of the Country, hence not applicable.
		(b) The total amount spent by hydel projects under Corporate Social Responsibility (CSR) during the last three years and the details of the Public Sector Undertakings where such units are functioning, the details thereof?	Amount spent towards Corporate Social Responsibility (CSR) activities by NEEPCO during last three years in its operating and future hydro projects are furnished below: -

Sl. No.	Hydro Power Stations / Projects of NEEPCO LTD.	Location (Name of District)	Amount Spent (₹ in Lakhs)		
			FY 2021-22	FY 2022-23	FY 2023-24
ASSAM					
1	Kopili HPS (275 MW)	Dima Hasao	23.87	48.72	14.75
NAGALAND					
2	Doyang HPS (75 MW)	Wokha	13.12	47.94	34.8
MEGHALAYA					
3	Wah Umium HEP St.-III (85 MW)	East Khasi Hills	12.55	21.02	0.88
MIZORAM					
4	Tuirial HPS (60 MW)	Kolasib	32.03	15.16	15.63
ARUNACHAL PRADESH					
5	Kameng HPS (600 MW)	West Kameng	47.17	64.03	51.35
6	Pare HPS (110 MW)	Papum Pare	56.22	48.07	24.99
7	Panyor Lower HPS (405 MW)	Lower Subansiri	49.91	66.05	85.66
8	Kurung HEP (330 MW)	Kra Daadi	0.00	14.08	7.44
9	New Melling HEP (90 MW)	Tawang	0.00	0.00	17.19
		Total:	**234.87**	**325.07**	**252.69**

5 (a)	RSQ,-S1544 , NEEPCO's reply Dt. 23.07.2024.	(a) The details of the ongoing hydel projects in Himachal Pradesh and the guidelines of Corporate Social Responsibility (CSR) under them; and	All the hydel projects of NEEPCO are located in the North Eastern Region of the Country, hence not applicable.
		(b) The total amount spent by hydel projects under Corporate Social Responsibility (CSR) during the last three years and the details of the Public Sector Undertakings where such units are functioning, the details thereof?	NEEPCO undertakes Corporate Social Responsibility (CSR) activities under the following heads as per its CSR policy: i) Promoting Education ii) Promoting Healthcare iii) EDP (Entrepreneurship Development Programme)/Skill Development Programme iv) Rural/ Area Development v) Swachh Bharat Abhiyan The details of amount spent are provided in the prescribed format as **Annexure - I**

	Annexure - I_ Formats For CSR data 23.07.2024	NEEPCO Ltd. **Annexure - I** Details of funds spent under CSR fund (All India Level) during last three years as below:

	U1544		

Year	Sanction Budget (in Rs. Lakh)	Education	Health	Rural Dev	Women Emp.	Environment	Capacity Building*	Art & Culture	Sports	SBA+SVA	Armed Forces	Reserve Fund	Disaster Management	Total Expenditure (Rs. In Lakh)
2023-24	**762.99**	246.01	129.12	191.12	-	-	82.05	-	-	114.69	-	-	-	**762.99**
2022-23	**519.24**	104.86	228.17	125.84	-	-	6.05	-	-	54.32	-	-	-	**519.24**
2021-22	**576.16**	105.41	276.90	118.34	-	-	6.65	-	-	68.86	-	-	-	**576.16**

*** EDP (Entrepreneurship Development Programme) / Skill Development Programme as per CSR policy of NEEPCO**

Details of funds spent under CSR fund (Himachal Pradesh) during last three years as below:

Year	Sanction Budget (in Rs. Lakh)	Education	Health	Rural Dev	Women Emp.	Environment	Capacity Building*	Art & Culture	Sports	SBA+SVA	Armed Forces	Reserve Fund	Disaster Management	Total Expenditure (Rs. In Lakh)
2023-24	**NIL for NEEPCO**													
2022-23														
2021-22														

5(b)

State Wise Expenditure on CSR from FY 2021-22 to 2023-24

Sl. No.	State	Expenditure			Total (Rs in lakhs)
		2023-24	**2022-23**	**2021-22**	
1	ARUNACHAL PRADESH	309.78	130.34	153.30	593.42
2	ASSAM	156.20	86.97	116.55	359.72
3	MEGHALAYA	105.00	29.44	218.75	353.19
4	NAGALAND	54.00	21.92	13.12	89.04
5	MIZORAM	43.39	36.99	32.03	112.41
6	TRIPURA	94.61	63.58	42.41	200.60
7	PM's CARES Fund	0.00	150.00	0.00	150.00
	TOTAL:	**762.98**	**519.24**	**576.16**	**1858.38**

	RSQ,-U1987 , NEEPCO's reply Dtd. 24.07.2024.	(a) Whether the government has taken adequate steps to fill up the vacancies falling under the Ministry of Power and all its PSUs, Allied offices	NEEPCO has taken necessary steps to fill up its vacancies.
		(b) If so the details thereof	Process for filling up of 61 Posts is currently under process. In addition, 30 Posts of Executive Trainee (Civil) have also been advertised.
6		(c) The incumbency position as on 1.7.2024 in respect of all Aided Institutes, all Public Sector Undertakings under aegis of the Ministry of Power	Sanctioned and held positions of NEEPCO as on 01-07-2024 are as below:

Category	Sanctioned	Held	Vacancy
Executive	808	622	186
Supervisor	215	189	26
Workman	200	591	,,,

		(d) Whether the government has initiated any special recruitment drive for filling up of vacancies in SC/ST/OBC and Minority communities and if so the details thereof if not the reasons there for?	NEEPCO has conducted special recruitment drive for filling up of vacancies for SC/ST/OBC/PwBDs from time to time. Last Special Recruitment Drives were done in the years 2015, 2016, 2017 & 2018.
	LSQ,-3338 , NEEPCO's reply Dtd. 24.07.2024.	(a) The details of the Power Purchase Agreement between Ratle Hydro Electric Power Corporation Limited (RHPCL) and Rajasthan Urja Vikas, IT Services Limited;	NEEPCO is not involved in the development of Ratle hydro Electric Project. Hence, not applicable.
		(b) Whether the Government has taken any initiative to harness the hydro potential including the hydro pumped storage potential and if so, the details thereof;	NEEPCO has so far commissioned six hydro projects totalling 1525 MW in the North Eastern Region of the country. Besides, NEEPCO has taken up some more hydro projects for future development in the states of Arunachal Pradesh and Meghalaya. Details are as under:

7(a)			

Sl. No.	Project	Installed Capacity (MW)	Remarks
Arunachal Pradesh:			
1	Heo HEP	240	Various statutory clearances and investment approvals are in process.
2	Tato-I HEP	186	
3	Tato-II HEP	700	
4	Naying HEP	1000	Statutory clearances are in process.
5	Hirong HEP	500	DPR is under revision.
6	Kurung HEP	330	Preparation of DPR and EIA / EMP are in process.
7	Nafra HEP	120	Viability is yet to be established under revised study with e-flow.
8	New Melling HEP	90	Viability could not be established in the preliminary study.
Meghalaya:			
9	Wah Umiam St-I HEP	50	Under Survey & Investigation.
10	Wah Umiam St- II HEP	100	
11	Wah Umiam St- III HEP	85	Statutory clearances are in process.

Besides, NEEPCO is also exploring the possibility for development of PSPs in the NER as well as in other parts of the country. Based on the indication by MoP, GoI on 08.08.2022, PFRs for three PSPs in Mizoram totaling 3650 MW were prepared, cost & tariff for the projects were found to be on higher side on initial examination. NEEPCO is also exploring PSPs in other states including existing reservoirs/ water bodies. Kopili PSP (320 MW) in Assam at existing 275 MW Kopili HPS, Wah Umiam PSP (800 MW) and Wah Umsong PSP (1500 MW) in Meghalaya are presently under study.

Besides, MoP, Govt. of India has taken numbers of measures and policy initiatives for promoting the hydro power sector/ PSPs. These include declaration of large hydro projects (above 25 MW) as RE, HPO, budgetary support towards enabling infrastructure and Flood moderation, bundling with RE, waiver of ISTS charges, prohibition to the states from imposing water cess or any other cess, etc. Government has also indicated many stressed hydro projects and new PSPs for study and possible development by different CPSUs.

Further, guideline of MoP, GoI published on 10th April 2023 to promote development of PSPs in the Country, also mentions incentives like Green Finance, energy storage obligation, waiver of upfront premium, concession in taxes and duties, etc. to promote PSPs in the country. CEA has also brought out different guidelines for DPR preparation and concurrence of hydro power projects and PSPs. Hydro Power Policy is presently under revision which is envisaged to also encompass PSPs.

	(c) The details of the hydro potential in the country, State-wise; and	As per the reassessment study by CEA, the estimated hydro potential (above 25 MW) for all States and UTs of India is annexed as **Annexure-I**.
	(d) The number of hydro projects in the country whose Detailed Project Reports (DPRs) have been concurred by the Central Electricity Authority (CEA) during the last ten years for taking up construction along with the number of DPRs under preparation, State-wise?	DPRs for the following hydro projects have been concurred by CEA during the last 10 years which are presently under development by NEEPCO: •Heo HEP (240 MW) •Tato-I HEP (186 MW) •Tato-II HEP (700 MW) •Naying HEP (1000 MW) •Nafra HEP (120 MW) • Wah Umiam St-III HEP (85 MW)* *DPR was prepared by NEEPCO. For other projects, DPRs were prepared by the previous developers, projects were later allotted to/ acquired by NEEPCO and concurrences were later transferred to NEEPCO in 2023. Further, DPRs for two HEPs in Arunachal Pradesh are currently being prepared by NEEPCO: •Kurung HEP (330 MW) • Hirong HEP (500 MW): DPR was concurred by CEA on 10.04.2013 to the previous developer. The same is being revised/updated as per the e-flow norms of MoEF&CC.
7 (b)	Annexure- I_ Hydro_Potential_India_CEA_3338 STATUS OF LARGE HYDRO ELECTRIC POTENTIAL DEVELOPMENT	E:\RTI\AUDIT REPORT\Third party audit\FY
LSQ,-3448 , NEEPCO's reply	(a) The details of generation of thermal and hydro power, respectively since 1990 onwards including	The power generation from NEEPCO's Thermal (Gas based) and Hydro Power Plants since FY1990 onwards is furnished below:

	Dtd. 25.07.2024.	Power likely to be produced by thermal power plants in the pipeline according to the demands of various States; and	Presently NEEPCO does not have any thermal power plant in the pipeline.
8		(b) The details of the quality of power imported and domestically mined, respectively during each of the last three years and import and domestic production of power expected along with targets set/achieved for Viksit Bharat 2047 in this regard so far?	The power generated (in MU) by NEEPCO (all domestic) during the last three years from Hydro, Thermal (Gas based) and Solar Power Plants are furnished below: The future projects of NEEPCO are envisaged from Hydro, PSP (Pumped Storage Projects), Solar projects and BESS (Battery Energy Storage System). NEEPCO has drawn its future capacity addition plan till 2037. Accordingly, along with the existing projects, the installed capacity of NEEPCO is projected to be about 30,000 MW and the annual generation about 80,000 MU by 2037. This shall contribute towards achievement of the target for Viksit Bharat 2047.
9 (a)	RSQ,-U1047 , NEEPCO's reply Dtd. 26.07.2024.	(a) Projects located in Bihar in which CSR funds has been spent by the PSU companies under the Ministry in the last three years and the current year; company-wise, year-wise, project-wise and NGO-wise details thereof; and	NEEPCO does not have any project located in Bihar and no CSR fund was spent in Bihar.
		(b) Number of such NGOs are being given CSR funds every year consistently by the PSUs under the Ministry and the developmental and awareness activities that have been carried out in the society from the funds so received by NGOs; state-wise detail thereof?	Not applicable in view of (a) above.
9 (b)		(a) CSR Expenditure in Bihar	Name of PSU: NEEPCO (North Eastern Electric Power Corporation Ltd.)
		(b Details of funds provided to NGOs consistently every year and developmental and awareness works done by such NGOs State wise:	NIL
10	RSQ,-2538 , NEEPCO's reply Dtd. 29.07.2024.	(a) The number of hydroelectric power plants in Himachal Pradesh along with their capacity, and fuel-wise;	NEEPCO does not have any hydro project in Himachal Pradesh. Hence not applicable.
		(b) Whether the Government plan to undertake renovation of old hydro power plants,	Refer reply at (a) above.
		(c) If so, the status thereof along with the norms laid down in this regard and	Not applicable.
		(d) The measures by the Government to modernise hydroelectric power plants in Himachal Pradesh?	Not applicable.
	RSQ,-Unstarred Question No. 1594 (Dy. No. S3007) ,	(a) Whether Government of Kerala has submitted any proposal as an alternative to Athirappilly Hydro-Electric Project;	NEEPCO does not have any hydro project in Kerala. Hence not applicable.

Sl. No.	Power Plants	Generation up to 23.07.2024 (In MU)
1	Thermal (Gas based)	65,627.55
2	Hydro	77,421.28

Sl. No.	Year	Hydro	Thermal (Gas based)	Solar	Total (In MU)
1	2021-22	4685.27	3429.04	5.98	8120.29
2	2022-23	5202.32	3282.94	6.74	8492.00
3	2023-24	4998.03	2997.16	5.68	8000.87
4	2024-25 (Up to 23/07/2024)	1958.70	880.39	1.78	2840.87
	Total	**16,844.32**	**10,589.53**	**20.18**	**27,454.03**

Year	CSR Fund spent
2021-22	Company/ NGOs wise: NIL Project wise: NIL
2022-23	Company/ NGOs wise: NIL Project wise: NIL
2023-24	Company/ NGOs wise: NIL Project wise: NIL
2024-25	Company/ NGOs wise: NIL Project wise: NIL

11	NEEPCO's reply Dt. 30.07.2024.	(b) Whether any proposal for new hydroelectric projects have been submitted by Government of Kerala;	Refer reply at (a) above.						
		(c) The quantum of electricity additionally generated (in MW) in Kerala over the past 10 years; which all years witnessed the maximum production and the name of the projects?	Not applicable.						
12 (a)	RSQ - U1059, U3429, U3475 , NEEPCO's reply Dtd. 02.08.2024.	(a) whether the Government is taking any initiative to harness the hydro potential including the hydro pumped storage potential;	NEEPCO has so far commissioned six hydro projects totalling 1525 MW in the North Eastern Region of the country. NEEPCO has also undertaken some more hydro projects with total installed capacity (IC) of 3191 MW for future development in the States of Arunachal Pradesh and Meghalaya which are under different stages of approval/ clearance/ study. Besides, NEEPCO is also exploring the possibility for development of PSPs in the NER as well as in other parts of the country. Kopili PSP (320 MW) in Assam at existing 275 MW Kopili HPS, Wah Umiam PSP (800 MW) and Wah Umsong PSP (1500 MW) in Meghalaya are presently under study. Govt. of India has indicated many stressed hydro projects and new PSPs for study and possible development by different CPSUs. Apart from that, GoI has also taken numbers of measures and policy initiatives for promoting the hydro power sector/ PSPs. These include declaration of large hydro projects (above 25 MW) as Renewable Energy (RE), Hydro Purchase Obligation (HPO), budgetary support towards enabling infrastructure and flood moderation, bundling with RE, waiver of ISTS charges, prohibition to the States from imposing water cess or any other cess, etc. The Hydro Power Policy is presently under revision and encompasses PSPs as well. MoP, GoI published a guideline on 10th April, 2023 to promote development of PSPs in the Country. Besides, CEA has also brought out different guidelines for DPR preparation and concurrence of hydro power projects and PSPs.						
		(b) What is the hydro potential in the country, State-wise;	As per the reassessment study by CEA, the estimated hydro potential (above 25 MW) for all States and UTs of India is annexed as **Annexure-I.**						
		(c) Detailed Project Reports (DRs) of how many hydro projects in the country have been concurred by CEA during the last 10 years for taking up construction, State-wise; and also how many DRs are under preparation, State-wise;	Detailed Project Report for the following hydro projects have been concurred by CEA during the last 10 years which are presently under development by NEEPCO:						
			Arunachal Pradesh:						
			•Heo HEP (240 MW)						
			• Tato-I HEP (186 MW)						
			• Tato-II HEP (700 MW)						
			• Naying HEP (1000 MW)						
			These DPRs were prepared by the previous developers, projects were later allotted to/ acquired by NEEPCO and concurrences were later transferred to NEEPCO in 2023.						
			Meghalaya:						
			• Wah Umiam St-III HEP (85 MW)						
			Further, Detailed Project Reports for two HEPs in Arunachal Pradesh are currently being prepared by NEEPCO:						
			•Kurung HEP (330 MW)						
			• Hirong HEP (500 MW): DPR was concurred by CEA on 10.04.2013 to the previous developer. The same is being revised/updated as per the e-flow norms of MoEF&CC.						
12 (b)		STATUS OF LARGE HYDRO ELECTRIC POTENTIAL DEVELOPMENT (In terms of Installed capacity - Above 25 MW), As on 31.05.2024 (**Annexure-I**)	E:\RTI\AUDIT REPORT\Third party audit\FY						
	RSQ,-S4098 , NEEPCO's reply Dtd. 02.08.2024.	(a) The number of new hydropower projects launched in recent years, and the total generation capacity and status of these projects;	NEEPCO has so far commissioned six hydro projects totalling 1525 MW in the North Eastern Region of the country. The last project viz. 600 MW Kameng HPS, Arunachal Pradesh was commissioned in 2020-21. The future hydro projects of NEEPCO are in different stages of approval/ clearance/ study. As such, no hydro project was launched in the recent years.						

13		(b) The major challenges faced in the construction of hydropower projects and the measures being taken to address them;	NEEPCO commissioned all hydro projects in the North Eastern Region, the remotest part of the country with extreme terrain and poor road/infrastructure conditions. NEEPCO experienced the following major challenges during the construction of these hydro projects include lack of communication and infrastructure, geological surprises, natural calamities like floods/ flash floods, landslides, prolonged monsoon and shorter working season, law and order issues, lack of labours and skilled manpower, contractual issues etc. In order to overcome the challenges, concerned authorities were consistently pursued for development of necessary approach roads under their purview and NEEPCO also developed some roads on its own. Design changes were undertaken to adapt to overcome the geological surprises, expert consultancy including international experts was also taken as per requirement. Help of State machineries as well as Central Authorities were undertaken to tackle the law and order issues apart from undertaking many developmental/ CSR activities, providing employment and incentives to gain support of local populace/ authorities. Plans/ Remedial action plans were made in advance based on past experiences. A robust monitoring mechanism was also developed along with real time monitoring was resorted to with state of the art technology and high powered IP cameras for expeditious resolution of different issues arising during the project construction activities.
		(c) The details of financial assistance, subsidies and incentive packages for hydropower projects; and	NEEPCO received equity support from Govt. of India in the construction of all its hydro projects besides grant and subordinate loan in one of these projects. Govt. of India also assisted in obtaining external funding at cheaper rate. The future hydro projects are envisaged to receive budgetary support towards enabling infrastructure and flood moderation as per the prevailing norms of GoI, besides HPO benefits, waiver of ISTS charges for timebound development/ milestones. Prohibition has also been made on imposing water cess or any other cess by the States on the hydro projects.
		(d) The details of future policy reforms and new schemes proposed for hydropower development?	In order to facilitate the energy transition and energy security goals of Govt. of India, the national Hydro Power Policy is under revision for effective alignment with the recent norms/ trends/ practices and is intended to ensure time bound development with penalty provisions for defaults by the states/ developers. Pumped Storage Projects are also being emphasised. The following new hydro projects/ schemes are in pipeline for future development in the States of Arunachal Pradesh and Meghalaya:

Sl. No.	Project	Installed Capacity (MW)
Arunachal Pradesh:		
1	Heo HEP	240
2	Tato-I HEP	186
3	Tato-II HEP	700
4	Naying HEP	1000
5	Hirong HEP	500
6	Kurung HEP	330
Meghalaya:		
7	Wah Umiam St-I HEP	50
8	Wah Umiam St- II HEP	100
9	Wah Umiam St- III HEP	85

14	RSQ,-U3425 , NEEPCO's reply Dtd. 02.08.2024.	(a) Does the Union Government recognize the need to enhance electricity storage options and plan to formulate a policy on pumped storage projects?;	Considering the energy transitions in the Country, the need to enhance electricity storage options is recognized by the Govt. of India. Ministry of Power, GoI published guideline on 10th April, 2023 to promote development of pumped storage projects (PSP) in the Country. CEA has also brought out different guidelines for DPR preparation and concurrence of hydro power projects and PSPs. Hydro Power Policy is presently under revision which is envisaged to also encompass PSPs. NEEPCO is also exploring the possibility for development of electricity storage options through Pumped Storage Projects (PSPs) in the NER as well as in other parts of the country. Based on the indication by MoP, Govt. of India on 08th August, 2022, PFRs for three PSPs in Mizoram totaling 3650 MW were prepared, cost & tariff for the projects were found to be on higher side on initial examination. NEEPCO is also exploring PSPs in other States including existing reservoirs/ water bodies. Kopili PSP (320 MW) in Assam at existing 275 MW Kopili HPS, Wah Umiam PSP (800 MW) and Wah Umsong PSP (1500 MW) in Meghalaya are presently under study.
		(b) If so the details thereof;	Refer reply at (a) above.
		(c) What is the Union Government's plan to strengthen India's baseload power capacity over the next five years?;	NEEPCO has three nos. of gas based combined cycle thermal power projects of total IC of 525 MW that serve as baseload stations. Presently NEEPCO does not have any plan to install new thermal power projects.
15		Annexure-I_ Electrical Energy Requirement_1188, 20thElectric Power Survey of India, Table 2.9 State/UT Wise Electrical Energy Requirement Ex Bus (in MU)	E:\RTI\AUDIT REPORT\Third party audit\FY
16		Annexure-II_ Peak Electricity Demand _ 1188, 20thElectric Power Survey of India, Table 2.11 State/UT Wise Peak Electricity Demand Ex Bus (in MW)	E:\RTI\AUDIT REPORT\Third party audit\FY