

**Pro-forma for furnishing Actual annual performance/operational data for the Hydro Electric generating stations for the 5-year period from 2017-18 to 2021-22**

	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22	
1	Name of Company		North Eastern Electric Power Corporation Limited (NEEPCO LTD.)					
2	Name of Station		Kopili Power Station (KPS)					
3	Installed Capacity and Configuration	(MW)	200 MW ( 4 X 50 MW) Reservoir Based Hydro Power Station					
3.1	Date of Commercial Operation - Unit Wise	Unit # 1	05-Jul-1988					
		Unit # 2	22-Jun-1988					
		Unit # 3	01-May-1997					
		Unit # 4	12-Jul-1997					
3.2	Effective COD	<b>Last Unit</b>	<b>12-Jul-1997 (200 MW)</b>					
4	Station Location	Under ground or Surface	Surface					
	Stage							
5	Type of Excitation System		Static excitation system					
6	Live Storage Capacity	(Million Cubic)	123.0385					
7	Rated Head	Metres	326.5					
8	Head at Full Reservoir Level (FRL)	Metres	331.6					
9	Head at Minimum Draw down Level (MDDL)	Metres	309.2					
10	MW Capability at FRL	MW	200					
11	MW Capability at MDDL	MW	120					
12	<b>Cost of spares :</b>							
12.1	Cost of spares capitalized in books of accounts	(Rs. Lakhs)						
12.2	Cost of spares included in the capital cost for the purpose of tariff	(Rs. Lakhs)						
	<b>Period</b>							
13	<b>Generation :</b>							
13.1	Actual Gross Generation at Generator Terminals	(MU)	1058.29	1028.85	716.87	0.00	0.00	
13.2	Actual Net Generation Ex-bus including free power	(MU)	1047.30	1012.56	710.99	0.00	0.00	
13.3	Scheduled generation Ex-bus including free power	(MU)	1031.2743	1003.3187	712.0207	0.0000	0.0000	
14	Actual Auxiliary Energy Consumption excluding colony consumption	(MU)	1.4247	1.2590	0.6173	0.0000	0.0000	
15	Actual Energy supplied to Colony from the station (Whole Kopili Hydro Power Plant)	(MU)	4.0518	3.6468	3.5981	3.4954	3.9297	
16	Average Declared Capacity (DC) during the year	(MW)	146.8	172.4	184.6	0	0	
	Actual Declared Capacity	MU	1031.59325	1012.93175	713.79115	0	0	
	Deemed Declared Capacity							
	Actual energy supplied to beneficiaries	MU	1031.274250	986.180483	696.025431	0.000	0.000	
	Actual energy supplied in DSM	MU	16.0229	9.2427	-1.0355	0	0	
	Actual energy supplied in exchange	MU		17.138255	15.99526			
17	<b>Weighted Average duration of outages ( Unit-wise details)</b>							
17.1	Scheduled outages	Unit # 1	(Days)	0.0	42.5	2.7	0.0	0.0
		Unit # 2	(Days)	0.0	13.7	0.0	0.0	0.0
		Unit # 3	(Days)	45.0	28.4	0.0	0.0	0.0
		Unit # 4	(Days)	39.5	19.7	0.0	0.0	0.0
17.2	Forced outages	Unit # 1	(Days)	58.5	5.2	178.9	365.0	365.0
		Unit # 2	(Days)	97.5	19.7	180.8	365.0	365.0
		Unit # 3	(Days)	63.6	10.2	188.2	365.0	365.0
		Unit # 4	(Days)	62.9	7.9	188.5	365.0	365.0
	Within the control of generator	(Days)						
	Beyond the control of generator	(Days)						
	Shortfall in energy claimed / allowed							
18	Cost of spares actually consumed	(Rs. Lakhs)						
19	Average stock of spares	(Rs. Lakhs)						

Month wise Design Energy (Existing)

Annexure-III contd. SH 2/3

Month	Period	Design Energy as approved by CEA (MU)	Month	Period	Design Energy as approved by CEA (MU)
April	1-10	19.34	October	1-10	38.16
	11-20	19.34		11-20	38.16
	21-30	19.34		21-31	41.98
May	1-10	48.00	November	1-10	18.24
	11-20	48.00		11-20	18.24
	21-31	52.80		21-30	18.24
June	1-10	48.00	December	1-10	18.24
	11-20	48.00		11-20	18.24
	21-30	48.00		21-31	20.06
July	1-10	48.00	January	1-10	18.24
	11-20	48.00		11-20	18.24
	21-31	52.80		21-31	20.06
August	1-10	48.00	February	1-10	18.24
	11-20	48.00		11-20	18.24
	21-31	52.80		21-28	14.59
September	1-10	48.00	March	1-10	18.24
	11-20	48.00		11-20	18.24
	21-30	48.00		21-31	20.06
			Total		<b>1186.14</b>

Storage Hydro plants shall also furnish actual monthly average peaking generation in MW achieved during the period 2017-18 to 2021-22 against the monthly average peaking capability approved by CEA as per following format:

Month	Expected Avg. of daily 3-hour peaking capacity as approved by CEA	Actual monthly average of daily 3-hour peaking (MW) for the period 2017-18 to 2021-22
April	NA	108.81
May	NA	146.97
June	NA	175.12
July	NA	184.55
August	NA	188.54
September	NA	176.83
October	NA	138.56
November	NA	178.97
December	NA	184.53
January	NA	138.11
February	NA	131.13
March	NA	146.66

- 1 List of beneficiaries/customers along with allocation by GoI including (allocation of unallocated share) / capacity as contracted should also be furnished separately for each generating station.
- 2 Declared Capacity should be as per Regulation CERC Tariff Regulations including month wise information may be furnished.
- 3 Any relevant point or a specific fact having bearing on performance or operating parameters may also be highlighted or brought to the notice of the Commission.

**Month wise Design Energy (Post R&M) From 2021-22**

<b>Month</b>	<b>Period</b>	<b>Design Energy as approved by CEA (MU)</b>	<b>Month</b>	<b>Period</b>	<b>Design Energy as approved by CEA (MU)</b>
April	1-10	9.80	October	1-10	129.09
	11-20			11-20	
	21-30			21-31	
May	1-10	34.59	November	1-10	69.71
	11-20			11-20	
	21-31			21-30	
June	1-10	112.72	December	1-10	70.24
	11-20			11-20	
	21-30			21-31	
July	1-10	144.54	January	1-10	71.34
	11-20			11-20	
	21-31			21-31	
August	1-10	140.50	February	1-10	46.56
	11-20			11-20	
	21-31			21-28	
September	1-10	134.72	March	1-10	29.98
	11-20			11-20	
	21-30			21-31	
			<b>Total</b>		<b>993.79</b>

**Annexure –IV**

**PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIEVED**

Generating company: NEEPCO LTD.

Name of Generating station: Kopili Power Station (KPS)

Installed Capacity (MW) : 200

Normative Annual Plant Availability Factor (%) approved by Commission : 79% Up-to 2018-19 and 69% from 2019-20

**Plant Availability Factor Achieved (%)**

Month	2017-18	2018-19	2019-20	2020-21	2021-22	Reasons for shortfall in PAF achieved vis-a-vis NAPAF
April	0.00	80.79	88.23	NA	NA	Rectification of Umrong Tunnel Leakage in from 20/03/2016 to 08/05/2017, Flooding of the Power Station due to Penstock Puncture from 07/10/2019
May	47.10	85.04	93.30	NA	NA	
June	95.52	90.47	83.57	NA	NA	
July	91.76	94.17	97.75	NA	NA	
August	92.83	96.79	98.54	NA	NA	
September	75.32	96.50	98.06	NA	NA	
October	95.96	95.94	97.24	NA	NA	
November	93.84	89.06	NA	NA	NA	
December	94.15	92.93	NA	NA	NA	
January	70.64	70.54	NA	NA	NA	
February	61.22	72.33	NA	NA	NA	
March	69.27	79.02	NA	NA	NA	
Annual	74.16	87.06	93.44	NA	NA	

**Plant Load Factor Achieved (%)**

Month	2017-18	2018-19	2019-20	2020-21	2021-22	Reasons for shortfall in PLF achieved vis-a-vis Target PLF
April	NA	NA	NA	NA	NA	
May	NA	NA	NA	NA	NA	
June	NA	NA	NA	NA	NA	
July	NA	NA	NA	NA	NA	

August	NA	NA	NA	NA	NA
September	NA	NA	NA	NA	NA
October	NA	NA	NA	NA	NA
November	NA	NA	NA	NA	NA
December	NA	NA	NA	NA	NA
January	NA	NA	NA	NA	NA
February	NA	NA	NA	NA	NA
March	NA	NA	NA	NA	NA
Annual	NA	NA	NA	NA	NA

**Details of operation & Maintenance expenses (to be filled by each Hydro generating station)**

Name of Geeration Company:

Name of the hydro-electric station:

Rs. Lakh

(A)	Break up of O&M expenses	2017-18	2018-19	2019-20	2020-21	2021-22
1.	Consumption of stores & spares	1803.08	253.06	308.99	277.88	698.38
2.	Repair and Maintenance	1389.60	1130.48	1874.08	1244.40	1283.66
2.1	For Dam , Intake, WCS, De- silting chamber	50.89	50.89	59.82	84.81	83.54
2.2	For Power House and all other works					
	<b>Sub-Total (Repair and Maintenance)</b>	<b>3243.57</b>	<b>1434.43</b>	<b>2242.88</b>	<b>1607.09</b>	<b>2065.58</b>
3.	Insurance	50.89	50.89	59.82	84.81	83.54
4.	Security	304.04	372.02	584.01	446.14	478.23
5.	<b>Administrative expenses</b>					
5.1	Rent					
5.2	Electricity charges	4.11	5.05	13.90	0.00	7.73
5.3	Traveling & conveyance	41.15	43.62	36.76	6.73	13.95
5.4	Telephone, Postage etc., Communication	2.84	1.72	1.42	1.34	1.55
5.5	Advertisement	20.40	27.00	14.82	6.01	0.00
5.6	Donations					
5.7	Entertainment	0.17	0.20	0.69	0.00	0.00
	<b>Sub-total (Admn expenses)</b>	<b>68.68</b>	<b>77.59</b>	<b>67.59</b>	<b>14.09</b>	<b>23.23</b>
6	<b>Employee cost</b>					
6.1	Salaries,wages & allowances	2678.34	2904.39	2462.06	733.82	714.83
6.2	Staff welfare expenses	112.74	127.90	100.27	41.46	39.39
6.3	Productivity linked incentive	114.32	12.36	12.13	3.86	49.12
6.4	Expenditure on VRS					
6.5	Ex-gratia				1.45	
6.6	Performance related pay (PRP)					
6.7	VII Pay Arrears Paid Pertaining to period prior to 2017-18					
	<b>Sub-total (Employee cost)</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.01</b>	<b>0.01</b>
7.	Loss of stores					
8.	Provisions					
9.	Allocation of Corporate office expenses					
10	Other expenses (Specify items)	610.76	707.60	733.19	603.36	603.52
11	Total (1 to 10)	610.80	707.62	733.22	603.38	603.55
12	Revenue/Recoveries, if any	126.62	65.60	97.22	60.25	2693.10
13	Net expenses	484.18	642.01	636.00	543.12	-2089.55
14	Capital spares consumed <b>not included in (A) (1) above and not claimed /allowed by Commission</b> for capitalisation					
15	Number of employees:	166	141	124	107	99
15.1	Executives	69	54	57	55	53
15.2	Non- Executives	97	87	67	52	46
15.3	Corporate Office					
16	Man-MW ratio (Man/MW)					
16.1	Number of employees deployed in O&M					
16.2	Executives	69	54	57	55	53
16.3	Non Executives	97	87	67	52	46

Note:	Year-wise audited actual O&M expenses submitted for the period 2017-18 to 2021-22 should be clearly indicating the following					
	(i) Explanation / Justification for year to year variation of more than (±) 10% in any head of O&M expenses					
	(ii) Details of expenditure under the head "Others".					
	(iii) Details of the amount indicated under the head "Revenues/Recoveries"					
	(iv) Details of arrears and prior period adjustments included in the data for the period 2017-18 to 2021-22, if any, pertaining to period prior to the year 2017-18 should be mentioned separately in the following format:					
Sl. No.	Year during the period 2017-22 in which arrear/ prior period adjustments have been made	Year to which this arrear and prior period adjustment pertains	Amount of arrear/ prior period adjustment (Rs. in lakh)			
	(v) Separately furnish the details of abnormal expenses, if any.					
	(vi) Future provisions pertaining to period beyond 2021-22 made in the employee cost or any other head during 2017-18 to 2021-22 towards wage revision/arrears or for any other reason shall be provided separately.					

## Details of actual O&amp;M expenses (Common for Hydro /Thermal Generating Station)

Sl. No.	Item	Unit	2017-18	2018-19	2019-20	2020-21	2021-22
		<b>KOPILI 200</b>					
1	Consumption of stores & spares		1803.08	253.06	308.99	277.88	698.38
2	Repair & Maintenance		1389.60	1130.48	1874.08	1244.40	1283.66
3	Insurance		50.89	50.89	59.82	84.81	83.54
4	Security						
4.1	CISF						
4.2	Other than CISF		304.04	372.02	584.01	446.14	478.23
5	Water Charges						
6	Administrative Expenses						
6.1	Rent						
6.2	Electricity charges		4.11	5.05	13.90	0.00	7.73
6.3	Travelling & Conveyance		41.15	43.62	36.76	6.73	13.95
6.4	Communication Expenses		2.84	1.72	1.42	1.34	1.55
6.5	Advertising		20.40	27.00	14.82	6.01	0.00
6.6	Foundation Laying & Inauguration						
6.7	Donation						
6.8	Entertainment		0.17	0.20	0.69	0.00	0.00
6.9	Filing fee		8.80	8.80	8.80	11.24	8.80
	<b>Subtotal (Administrative Expenses)</b>		<b>8.97</b>	<b>9.00</b>	<b>9.49</b>	<b>11.24</b>	<b>8.80</b>
7	Employee Cost						
7.1.1	Salaries, Wages & Allowances		2678.34	2904.39	2462.06	733.82	714.83
7.1.1.1	Salaries, Wages & Allowances (including loco pilots and man power associated with stone and metal picking charges and water pumping)						
7.1.1.2	Salaries, Wages & Allowances (Excluding loco pilots and man power associated with stone and metal picking charges and water pumping)						
7.1.1.3	Loco pilots						
7.1.1.4	Stone and metal picking						
7.1.1.5	Water pumping						
7.1.2	Pension		167.15	153.91	142.38	44.98	46.14
7.1.3	Gratuity		967.81	143.11	88.07	27.84	23.27
7.1.4	Provident Fund		238.94	227.79	223.15	77.57	76.29
7.1.5	Leave Encashment		411.18	243.00	325.52	123.58	47.69
7.2	Staff welfare expenses		0.24	9.81	16.72	8.55	8.65
7.2.1	Medical expenses on superannuated employees						
7.2.2	Medical expenses on regular employees & others		92.88	108.21	97.06	34.46	37.17
7.2.3	Uniform/Livries & safety equipment		0.47	0.71	0.79	1.12	2.22
7.2.4	Canteen expenses						
	Other staff welfare expenses		19.38	18.97	2.41	5.88	0.00
	<b>Subtotal (Staff welfare Expenses)</b>						
7.3	Productivity linked Incentive		114.32	12.36	12.13	3.86	49.12
7.4	Expenditure on VRS						
7.5	Ex-gratia					1.45	
7.6	Performance Related Pay (PRP)						
	<b>Sub Total (Employee Cost)</b>		<b>4577.98</b>	<b>3694.38</b>	<b>3270.04</b>	<b>1021.66</b>	<b>965.99</b>
8	Loss of Store						
9	Provisions						
10	Prior Period Expenses						
11	Corporate Office expenses allocation						
12	Others		0.13	4.14	30.53	22.76	20.36
12.1	Rates & Taxes		4.32	7.15	4.50	7.18	3.75
12.2	Water cess						
12.3	Training & recruitment expenses		10.16	12.03	4.29	8.99	6.43
12.4	Tender Expenses						
12.5	Guest house expenses		3.67	3.87	4.66	2.71	0.52
12.6	Education expenses		158.55	229.09	210.91	247.27	240.00
12.7	Community Development Expenses						
12.7.1	CSR activities		28.48	60.47	27.45	43.89	31.18
12.8	Ash utilisation expenses						
12.9	Books & Periodicals		0.08	0.05	0.09	0.00	0.00
12.1	Professional Charges		28.12	2.27	1.48	0.29	0.00
12.11	Legal expenses		9.44	5.82	8.52	8.56	0.60

12.12	EDP Hire & other charges						
12.13	Printing & Stationery	5.59	2.62	3.17	3.03	2.13	
12.14	RLDC Fee & Charges	77.42	86.39	195.05	90.85	119.46	
12.15	Brokerage & Commission						
12.16	Bank charges	0.03	0.08	0.08	0.05	0.12	
12.17	Claims/advances written off						
12.18	Hiring of vehicle	174.12	178.65	223.17	155.25	124.24	
12.19	Payment to auditors	0.09	0.01	0.21	0.22	0.31	
12.2	Misc. Expenses	17.47	41.47	9.55	0.23	0.00	
	(Break-up Of Misc.)						
12.20.1	Horticulture						
12.20.2	Transport- Vehicle Running exp.	74.02	59.67	8.29	0.00	24.51	
12.20.3	Hire charges & Operating Exp -Construction equipment						
12.20.4	- Tree Plantation exp.						
12.20.5	- R&D expenses						
12.20.6	Other Vehicles						
12.20.7	Consumption-HSD/LDO-(Ind/Imp)-DG Set						
12.20.8	Exp/ Inc from Inv Diff						
12.20.9	Loss on sale of Investments						
12.20.10	Operating exp of diesel generating sets						
12.20.11	Furnishing Expenses						
12.20.12	Subscription to Trade and Other Association						
12.20.13	Hire Charges - Helicopter/Aircraft						
12.20.14	Visa & Entry Permit Charges - Overseas						
12.20.15	FX Monitoring Terminal Expenses						
12.20.16	Works/Conf.(Excl train R&D CENPEEP)Earlier Non FBT						
12.20.17	Workshop/Conf. Exp (train R&D CENPEEP) Earlier FBT						
12.20.18	Hire charges - Office equipment						
12.20.19	Payment for health club etc						
12.20.20	Gifts liable for Fringe Benefit Tax						
12.20.21	Festival expenses liable Earlier (FBT)						
12.20.22	Miscellaneous Expenses	19.07	12.31	0.00	12.07	29.91	
12.20.23	Rounding Off Difference						
12.20.24	Regional Power Committee Expenses						
12.20.25	Misc Exp. trf to CSR and IEDC						
12.20.26	Specify other sub head, if any. Swachh Bharat		149564.00	123945.00			
	<b>Sub Total (Others)</b>	<b>610.76</b>	<b>150270.10</b>	<b>124676.95</b>	<b>603.36</b>	<b>603.52</b>	
13	(Total 1 to 12)	8745.32	155779.93	130783.37	3689.49	4122.13	
14	Renenuue/Recoveries	126.62	65.60	97.22	60.25	2693.10	
15	Net Expenses	<b>8618.70</b>	<b>155714.33</b>	<b>130686.15</b>	<b>3629.23</b>	<b>1429.03</b>	





Rate	(%)																		
i) Ash Utilisation Expenses	(Rs. Crore)																		
AFC	(Rs./ kWh)	0.736144	0.628763	0.92089	0.6760857	0.751578	1.276761	1.1754159	0.93489	1.3342942	1.301497	2.1382887	1.8612978	1.42613348	1.33816468	1.432207108	2.151568611		
Energy Charge	(Rs./kWh)						0.379	0.347	0.359	0.372	0.391	0.483	0.507	0.473	0.556	0.56	0.583		
Supplemental Energy Charges - Emission Control	(Rs./kWh)																		
Total tariff	(Rs. kWh)						0.894703	0.8522324	0.82105	0.905943	0.830445	1.1323157	1.132	1.169	1.174	1.331	1.166		
Revenue realisation before tax	(Rs. Crore)																		
Revenue realisation after tax	(Rs. Crore)																		
Profit/ loss	(Rs. Crore)																		
DSM Generation	(MU)							15.44	13.948	14.824	21.574	17.872	10.274	20.194	15.522	12.668	2.645		
DSM Rate	(Rs/kWh)																		
Revenue from DSM	(Rs. Crore)							4.590	2.089	2.204	1.672	3.249	1.443	3.344	3.475	2.414	0.298		
Compensation received for operation below NAPAF																			
Part load Compensation received from beneficiariaes																			
Amount received from SCED	(Rs Crore)																		

Generating Companies are required to submit data for all generating stations  
This is a general format. Plants of different fuel users have to fill the cells as applicable to them.  
Tariff for the Hydro may be understood as composite tariff.  
The data provided for the corresponding years need to mention as Actual or provisional.  
Data for each Unit and Stage is required to be submitted in additional sheets as per the format