

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		Khandong Stage-II Power Station (KhPS-II) earlier Kopili Stage -II				
3	Installed Capacity and Configuration	(MW)	25 MW (1 X 25 MW) Reservoir Based Hydro Power Station				
3.1	Date of Commercial Operation - Unit Wise		26-Jul-2004				
3.2	Effective COD		26-07-2004 (25 MW)				
4	Station Location	Under ground or Surface	Surface				
	Stage						
5	Type of Excitation System		Static Excitation System				
6	Live Storage Capacity	(Million Cubic)	220.96664				
7	Rated Head	Metres	99				
8	Head at Full Reservoir Level (FRL)	Metres	105				
9	Head at Minimum Draw down Level (MDDL)	Metres	88				
10	MW Capability at FRL	MW	25				
11	MW Capability at MDDL	MW	18				
12	Cost of spares :						
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)					
	Period						
13	Generation :						
13.1	Actual Gross Generation at Generator Terminals	(MU)	113.540	93.935	103.587	0.000	10.966
13.2	Actual Net Generation Ex-bus including free power	(MU)	112.6592	94.3507	101.6957	0.0000	10.7632
13.3	Scheduled generation Ex-bus including free power	(MU)	110.31	92.13	101.82	0.00	11.14
14	Actual Auxiliary Energy Consumption excluding colony consumption	(MU)	0.2503	0.2650	0.1953	0.1817	0.4360
15	Actual Energy supplied to Colony from the station (Whole Kopili Hydro Power Plant)	(MU)	4.05	3.65	3.60	3.50	3.93
16	Average Declared Capacity (DC) during the year	(MW)	18.8	18.6	14.3	0.0	3.8
	Actual Declared Capacity	MU	110.33184	92.20379	102.227125	0	11.138
	Deemed Declared Capacity						
	Actual energy supplied to beneficiaries	MU	110.3053	91.7711	100.5743	0.0000	11.1380
	Actual energy supplied in DSM	MU	2.35385	2.21986	-0.12807	0.00000	-0.37475
	Actual energy supplied in exchange	MU		0.3597125	1.249500		
17	Weighted Average duration of outages (Unit-wise details)						
17.1	Scheduled outages	(Days)	0.0	55.6	72.4	365.0	288.5
17.2	Forced outages	(Days)	60	3	58	0	14
	Within the control of generator						
	Beyond the control of generator						
	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	0.24	October	1-10	0.09
	11-20	0.24		11-20	0.09
	21-30	0.24		21-31	0.10
May	1-10	4.80	November	1-10	0.00
	11-20	4.80		11-20	0.00
	21-31	5.28		21-30	0.00
June	1-10	5.76	December	1-10	0.00
	11-20	5.76		11-20	0.00
	21-30	5.76		21-31	0.00
July	1-10	6.00	January	1-10	0.00
	11-20	6.00		11-20	0.00
	21-31	6.60		21-31	0.00
August	1-10	6.00	February	1-10	0.00
	11-20	6.00		11-20	0.00
	21-31	6.60		21-28	0.00
September	1-10	5.32	March	1-10	0.00
	11-20	5.32		11-20	0.00
	21-30	5.32		21-31	0.00
			Total		86.30

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	12.59
May	NA	12.22
June	NA	12.32
July	NA	12.67
August	NA	12.48
September	NA	11.94
October	NA	7.93
November	NA	8.34
December	NA	12.93
January	NA	10.40
February	NA	5.08
March	NA	4.40

- 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 2022-23

Month	Period	Design Energy as approved by CEA (MU)		Month	Period	Design Energy as approved by CEA (MU)	
April	1-10		0.00	October	1-10		5.12
	11-20				11-20		
	21-30				21-31		
May	1-10		0.17	November	1-10		4.95
	11-20				11-20		
	21-31				21-30		
June	1-10		10.43	December	1-10		5.12
	11-20				11-20		
	21-30				21-31		
July	1-10		16.50	January	1-10		5.12
	11-20				11-20		
	21-31				21-31		
August	1-10		15.96	February	1-10		2.48
	11-20				11-20		
	21-31				21-28		
September	1-10		9.15	March	1-10		0.00
	11-20				11-20		
	21-30				21-31		
				Total			75.00

Annexure –IV

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIEVED

Generating company: North Eastern Electric Power Corporation Limited (NEEPCO LTD.)

Name of Generating station: Khandong Stage-II Power Station (KhPS-II)

Installed Capacity (MW) : 25

Normative Annual Plant Availability Factor (%) approved by Commission : **69%**

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	95.62	91.11	78.41	0.00	0.00	Control system problem.from 25/10/2017 to 02/12/2017. APM and other works from 04/02/2019 to 31/03/2019. To restrict Umrong Reservoir water due to Puncture of Kopili Penstock from 07/10/2019 to 12/11/2019. for lowering the water level of Umrong Reservoir and sealing of the Intake Gate from 20/11/2019 to 06/12/2019. APM & inspection/repairing of water conductor system from 20/01/2020 to 25/10/2021. Repair of all Hydro Mechanical Gates and Head Race Tunnel from 10/01/2022 and subsequent to the inundation of the Power Station on 26/03/2022.
May	85.89	82.63	85.54	0.00	0.00	
June	82.29	91.85	81.98	0.00	0.00	
July	82.18	86.22	89.26	0.00	0.00	
August	80.74	87.65	87.96	0.00	0.00	
September	76.36	87.34	89.41	0.00	0.00	
October	52.66	88.30	20.24	0.00	14.37	
November	0.00	96.84	26.45	0.00	66.53	
December	93.32	89.93	83.19	0.00	81.49	
January	84.72	84.46	50.87	0.00	19.59	
February	88.74	12.84	0.00	0.00	0.00	
March	87.00	0.00	0.00	0.00	0.00	
Annual	75.82	75.26	57.97	0.00	15.27	

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	225.38	31.63	38.62	34.73	87.30
2.	Repair and Maintenance	170.72	135.74	227.72	147.87	154.18
2.1	For Dam , Intake, WCS, De- silting chamber					
2.2	For Power House and all other works					
	Sub-Total (Repair and Maintenance)	396.11	167.37	266.34	182.60	241.48
3.	Insurance	6.36	6.36	7.48	10.60	-9.54
4.	Security	38.00	46.50	73.00	55.77	59.78
5.	Administrative expenses					
5.1	Rent					
5.2	Electricity charges	0.51	0.63	1.74	0.47	0.97
5.3	Traveling & conveyance	5.14	5.45	4.60	0.84	1.74
5.4	Telephone, Postage etc., Communication	0.36	0.21	0.18	0.17	0.19
5.5	Advertisement	2.55	3.37	1.85	0.75	0.00
5.6	Donations					
5.7	Entertainment	0.02	0.03	0.09	0.03	0.00
	Sub-total (Admn expenses)	8.58	9.70	8.45	2.26	2.90
6	Employee cost					
6.1	Salaries,wages & allowances	334.70	362.97	307.75	91.73	89.35
6.2	Staff welfare expenses	12.81	14.99	13.29	6.79	5.69
6.3	Productivity linked incentive	14.29	1.57	1.52	0.48	6.14
6.4	Expenditure on VRS	0.00	0.00	0.00	0.00	0.00
6.5	Ex-gratia	0.45	1.91	0.45	0.18	0.00
6.6	Performance related pay (PRP)					
6.7	VII Pay Arrears Paid Pertaining to period prior to 2017-18					
	Sub-total (Employee cost)	362.25	381.44	323.01	99.18	101.18
7.	Loss of stores					
8.	Provisions					
9.	Allocation of Corporate office expenses					
10	Other expenses (Specify items)	80.27	94.39	99.08	83.16	83.13
11	Total (1 to 10)	80.28	94.39	99.08	83.16	83.14
12	Revenue/Recoveries, if any	1.10	8.20	27.00	7.53	336.64
13	Net expenses	79.18	86.19	72.09	75.63	-253.50
14	Capital spares consumed not included in (A) (1) above and not claimed /allowed by Commission for capitalisation					
15	Number of employees:	21	18	15	13	13
15.1	Executives	9	7	7	7	7
15.2	Non- Executives	12	11	8	6	6
15.3	Corporate Office					
16	Man-MW ratio (Man/MW)					
16.1	Number of employees deployed in O&M					
16.2	Executives	9	7	7	7	7
16.3	Non Executives	12	11	8	6	6

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&M expenses (Common for Hydro /Thermal Generating Station)

Sl. No.	Item	Unit	2017-18	2018-19	2019-20	2020-21	2021-22
1	Consumption of stores & spares		225.38	31.63	38.62	34.73	87.30
2	Repair & Maintenance		170.72	135.74	227.72	147.87	154.18
3	Insurance		6.36	6.36	7.48	10.60	-9.54
4	Security						
4.1	CISF		0.00				
4.2	Other than CISF		38.00	46.50	73.00	55.77	59.78
5	Water Charges		0.00				
6	Administrative Expenses						
6.1	Rent		0.00	0.00			
6.2	Electricity charges		0.51	0.63	1.74	0.47	0.97
6.3	Travelling & Conveyance		5.14	5.45	4.60	0.84	1.74
6.4	Communication Expenses		0.36	0.21	0.18	0.17	0.19
6.5	Advertising		2.55	3.37	1.85	0.75	0.00
6.6	Foundation Laying & Inauguration						
6.7	Donation						
6.8	Entertainment		0.02	0.03	0.09	0.03	0.00
6.9	Filing fee		1.10	1.10	1.10	1.40	0.00
	Subtotal (Administrative Expenses)		9.68	10.80	9.55	3.66	2.90
7	Employee Cost						
7.1.1	Salaries, Wages & Allowances						
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)		334.70	362.97	307.75	91.73	89.35
7.1.1.3	Loco pilots		0.00				
7.1.1.4	Stone and metal picking		0.00				
7.1.1.5	Water pumping		0.00				
7.1.2	Pension		20.89	19.24	17.80	5.62	5.77
7.1.3	Gratuity		120.98	17.89	11.01	3.48	2.91
7.1.4	Provident Fund		29.87	28.47	27.89	9.70	9.54
7.1.5	Leave Encashment		51.40	30.38	40.69	15.45	5.96
7.2	Staff welfare expenses						
7.2.1	Medical expenses on superannuated employees		0.00				
7.2.2	Medical expenses on regular employees & others		11.61	13.53	12.13	4.31	4.51
7.2.3	Uniform/Livries & safety equipment		0.06	0.09	0.10	0.14	0.28
7.2.4	Canteen expenses						
7.2.5	Other staff welfare expenses		1.14	1.38	1.06	2.35	0.90
	Subtotal (Staff welfare Expenses)		12.81	14.99	13.29	6.79	5.69
7.3	Productivity linked Incentive		14.29	1.57	1.52	0.48	6.14
7.4	Expenditure on VRS						
7.5	Ex-gratia		0.45	1.91	0.45	0.18	0.00
7.6	Performance Related Pay (PRP)		0.00				
	Sub Total (Employee Cost)		585.39	477.42	420.40	133.43	125.36
8	Loss of Store		0.00				
9	Provisions		0.00				
10	Prior Period Expenses		0.00				
11	Corporate Office expenses allocation		0.00				
12	Others						
12.1	Rates & Taxes		0.54	0.89	0.56	0.90	0.47
12.2	Water cess						
12.3	Training & recruitment expenses		1.27	1.50	0.54	1.12	0.80
12.4	Tender Expenses						
12.5	Guest house expenses		0.46	0.48	0.58	0.34	0.07
12.6	Education expenses		20.21	28.64	26.36	30.91	30.00
12.7	Community Development Expenses		0.45	0.83	0.69	7.45	6.46
12.7.1	CSR activities		3.56	7.56	3.43	5.49	3.90
12.8	Ash utilisation expenses						
12.9	Books & Periodicals		0.01	0.01	0.01	0.00	0.00
12.1	Professional Charges						

12.11	Legal expenses		1.18	0.73	1.07	1.07	0.08
12.12	EDP Hire & other charges		2.18	4.86	3.82	2.85	2.54
12.13	Printing & Stationery		0.70	0.33	0.40	0.38	0.27
12.14	RLDC Fee & Charges		12.65	16.37	30.92	11.36	16.03
12.15	Brokerage & Commission						
12.16	Bank charges		0.00	0.01	0.01	0.01	0.01
12.17	Claims/advances written off						
12.18	Hiring of vehicle		17.96	18.41	18.96	12.93	11.82
12.19	Payment to auditors		0.01	0.00	0.03	0.03	0.04
12.2	Misc. Expenses						
	(Break-up Of Misc.)						
12.20.1	Horticulture						
12.20.2	Transport- Vehicle Running exp.		13.06	11.38	8.93	2.62	6.13
12.20.3	Hire charges & Operating Exp -Construction equipment		0.00	0.00			
12.20.4	Tree Plantation exp.		0.00	0.00			
12.20.5	R&D expenses		0.00	0.00			
12.20.6	Other Vehicles		0.00	0.00			
12.20.7	Consumption-HSD/LDO-(Ind/Imp)-DG Set		0.00	0.00			
12.20.8	Exp/ Inc from Inv Diff		0.00	0.00			
12.20.9	Loss on sale of Investments		0.00	0.00			
12.20.10	Operating exp of diesel generating sets		0.00	0.00			
12.20.11	Furnishing Expenses		0.00	0.00			
12.20.12	Subscription to Trade and Other Association		0.00	0.00			
12.20.13	Hire Charges - Helicopter/Aircraft		0.00	0.00			
12.20.14	Visa & Entry Permit Charges - Overseas		0.00	0.00			
12.20.15	FX Monitoring Terminal Expenses		0.00	0.00			
12.20.16	Works/Conf.(Excl train R&D CENPEEP)Earlier Non FBT		0.00	0.00			
12.20.17	Workshop/Conf. Exp (train R&D CENPEEP) Earlier FBT		0.00	0.00			
12.20.18	Hire charges - Office equipment		0.00	0.00			
12.20.19	Payment for health club etc		0.00	0.00			
12.20.20	Gifts liable for Fringe Benefit Tax		0.00	0.00			
12.20.21	Festival expenses liable Earlier (FBT)		0.00	0.00			
12.20.22	Miscellaneous Expenses		6.02	2.39	2.76	5.72	4.52
12.20.23	Rounding Off Difference		0.00	0.00			
12.20.24	Regional Power Committee Expenses		0.00	0.00			
12.20.25	Misc Exp. trf to CSR and IEDC		0.00	0.00			
12.20.26	Specify other sub head, if any.		0.00	0.00			
	Sub Total (Others)		80.27	94.39	99.08	83.16	83.13
13	(Total 1 to 12)		1115.82	802.84	875.85	469.22	503.11
14	Revenue / Recoveries		1.10	8.20	27.00	7.53	336.64
15	Net Expenses		1114.72	794.64	848.85	461.69	166.47
	Total O&M Cost						

i) Ash Utilisation Expenses	(Rs. Crore)																		
AFC	(Rs./ kWh)	1.635208	1.592678	1.60127	2.0841888	1.72793	1.69771	1.6473878	1.42991	1.4213248	1.678558	1.62219	1.443364	1.4682765	1.05241505	1.26192259	1.83547438		18.6412282
Energy Charge	(Rs./kWh)						0.883	0.883	0.873	0.871	0.884	0.878	0.915	0.862	0.761	0.816	0.58		1.384
Supplemental Energy Charges - Emission Control	(Rs./kWh)																		
Total tariff	(Rs. kWh)						1.745503	1.705468	1.7404	1.8445914	1.612761	1.726016	1.887	1.801	1.448	1.636	1.38		2.184
Revenue realisation before tax	(Rs. Crore)																		
Revenue realisation after tax	(Rs. Crore)																		
Profit/ loss	(Rs. Crore)																		
DSM Generation	(MU)							1.591	1.771	1.314	2.388	0.68	2.036	2.768	2.34	1.107	0.976	0	0.0024
DSM Rate	(Rs/kWh)																		
Revenue from DSM	(Rs. Crore)							0.3590828	0.38462	0.2728174	0.188784	0.062437	0.366129	0.3581206	0.434	0.248	0.19	0	0.036
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