

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		Kameng Hydro Power Station (KaHPS)					
3	Installed Capacity and Configuration	(MW)	600 MW (4 X 150 MW) Run-Off-River Hydro Power Station					
3.1	Date of Commercial Operation - Unit Wise	Unit # 1	17-Jun-2020					
		Unit # 2	1-Jul-2020					
		Unit # 3	22-Jan-2021					
		Unit # 4	12-Feb-2021					
3.2	Effective COD		12-Feb-2021 (600 MW)					
4	Station Location	Under ground or Surface	Surface					
	Stage							
5	Type of Excitation System		Static Excitation System					
6	Live Storage Capacity	(Million Cubic)	Bichom=5.718					
7	Rated Head	Metres	501.22					
8	Head at Full Reservoir Level (FRL) (Max)	Metres	531.5					
9	Head at Minimum Draw down Level (MDDL)	Metres	NA					
10	MW Capability at FRL	MW	600					
11	MW Capability at MDDL	MW	480					
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)	NA	NA	26.45	1529.57	2576.35	
13.2	Actual Net Generation Ex-bus including free power	(MU)	NA	NA	NA	1523.55	2570.33	
13.3	Scheduled generation Ex-bus including free power	(MU)	NA	NA	NA	1484.96	2536.57	
14	Actual Auxiliary Energy Consumption excluding colony consumption	(MU)	NA	NA	NA	7.02	7.56	
15	Actual Energy supplied to Colony from the station	(MU)	NA	NA	NA	NA	1.28	
16	Average Declared Capacity (DC) during the year	(MW)	NA	NA	NA	286.3	419.7	
	Actual Declared Capacity	MU	NA	NA	NA	1491.8042	2540.4863	
	Deemed Declared Capacity		NA	NA	NA	NA	NA	
	Actual energy supplied to beneficiaries	MU	NA	NA	NA	589.2311038	1070.903063	
	Actual energy supplied in DSM	MU	NA	NA	NA	131.0331	33.4082	
	Actual energy supplied in exchange	MU	NA	NA	NA	803.3422	1466.2477	
17	Weighted Average duration of outages (Unit-wise details)							
17.1	Scheduled outages	Unit # 1	(Days)	NA	NA	NA	15.6	2.0
		Unit # 2	(Days)	NA	NA	NA	8.5	0.0
		Unit # 3	(Days)	NA	NA	NA	0.0	0.0
		Unit # 4	(Days)	NA	NA	NA	0.0	0.0
17.2	Forced outages	Unit # 1	(Days)	NA	NA	NA	61.9	54.9
		Unit # 2	(Days)	NA	NA	NA	29.8	57.6
		Unit # 3	(Days)	NA	NA	NA	9.6	134.3
		Unit # 4	(Days)	NA	NA	NA	9.8	167.4
	Within the control of generator		NA	NA	NA			
	Beyond the control of generator		NA	NA	NA			
	Shortfall in energy claimed / allowed		NA	NA	NA			
18	Cost of spares actually consumed	(Rs. Lakhs)	NA	NA	NA			
19	Average stock of spares	(Rs. Lakhs)	NA	NA	NA			

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	64.81	October	1-10	136.80
	11-20	69.22		11-20	108.37
	21-30	87.72		21-31	104.99
May	1-10	84.44	November	1-10	89.22
	11-20	100.76		11-20	75.02
	21-31	132.42		21-30	61.09
June	1-10	94.48	December	1-10	51.39
	11-20	136.80		11-20	61.99
	21-30	136.80		21-31	51.67
July	1-10	136.80	January	1-10	47.08
	11-20	136.80		11-20	44.42
	21-31	150.48		21-31	45.10
August	1-10	136.80	February	1-10	41.76
	11-20	136.80		11-20	41.04
	21-31	150.48		21-28	32.42
September	1-10	136.80	March	1-10	61.35
	11-20	136.80		11-20	60.98
	21-30	136.80		21-31	72.31
			Total		3353

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	147.77
May	NA	273.13
June	NA	327.39
July	NA	435.91
August	NA	342.40
September	NA	319.00
October	NA	348.71
November	NA	311.03
December	NA	339.81
January	NA	428.28
February	NA	478.74
March	NA	386.37

- 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)

Month	Period	Design Energy as approved by CEA (MU)	Month	Period	Design Energy as approved by CEA (MU)
April	1-10	NA	October	1-10	NA
	11-20	NA		11-20	NA
	21-30	NA		21-31	NA
May	1-10	NA	November	1-10	NA
	11-20	NA		11-20	NA
	21-31	NA		21-30	NA
June	1-10	NA	December	1-10	NA
	11-20	NA		11-20	NA
	21-30	NA		21-31	NA
July	1-10	NA	January	1-10	NA
	11-20	NA		11-20	NA
	21-31	NA		21-31	NA
August	1-10	NA	February	1-10	NA
	11-20	NA		11-20	NA
	21-31	NA		21-28	NA
September	1-10	NA	March	1-10	NA
	11-20	NA		11-20	NA
	21-30	NA		21-31	NA
			Total		

Annexure –IV

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIEVED

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

Name of Generating station: Kameng Hydro Power Station (KaHPS)

Installed Capacity (MW) : 600

Normative Annual Plant Availability Factor (%) approved by Commission : Not yet approved

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	NA	NA	NA	0.00	29.39	TGB vibration very high of U1 from 29/08/2020 to 06/06/2020. Failure of B-Phase Generator Transformer of U2 from 23/11/2020 to 10/12/2020. LGB Pad temperature high problem of U1 from 21/02/2021 to 18/04/2021, Lower Guide bearing & thrust bearing temp very high problem of U2 from 25/03/2021 to 08/04/2021. Penstock Checking from 22/03/2021 to 12/05/2021. Rectification of Guide Vanes link pin of U1 from 29/07/2021 to 30/08/2021. High vibration of TGB of U2 from 12/05/2021 to 22/06/2021. Labyrinth problem of U3 from 18/08/2021 to 28/09/2021 & 18/10/2021 to 14/11/2021. Labyrinth problem of U4 from 19/09/2021 to 14/01/2022
May	NA	NA	NA	0.00	65.17	
June	NA	NA	NA	100.77	75.20	
July	NA	NA	NA	101.09	94.80	
August	NA	NA	NA	97.30	65.98	
September	NA	NA	NA	76.43	68.18	
October	NA	NA	NA	102.15	65.17	
November	NA	NA	NA	81.09	64.81	
December	NA	NA	NA	84.72	70.87	
January	NA	NA	NA	101.01	82.03	
February	NA	NA	NA	75.15	87.54	
March	NA	NA	NA	47.71	78.96	
Annual	NA	NA	NA	86.09	70.66	

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 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		0	0	0	129.26	226.88
2	Repair & Maintenance		0	0	0	632.53	1862.08
3	Insurance		0	0	0	4030.42	4386.43
4	Security		0	0	0	0	0
4.1	CISF		0	0	0	0	0
4.2	Other than CISF		0	0	0	277.82	362.90
5	Water Charges		0	0	0	0	0
6	Administrative Expenses		0	0	0	0	0
6.1	Rent		0	0	0	0	0
6.2	Electricity charges		0	0	0	241.86	269.12
6.3	Travelling & Conveyance		0	0	0	21.67	42.45
6.4	Communication Expenses		0	0	0	15.12	24.66
6.5	Advertising		0	0	0	8.74	0
6.6	Foundation Laying & Inauguration		0	0	0	0	0
6.7	Donation		0	0	0	0	0
6.8	Entertainment		0	0	0	0.20	0.11
6.9	Filing fee		0	0	0	2670.14	6197.74
	Subtotal (Administrative Expenses)		0	0	0	8027.76	13372.36
7	Employee Cost						
7.1.1	Salaries, Wages & Allowances		0	0	0	2183.80	3122.29
7.1.1.1	Salaries, Wages & Allowances (including loco pilots and man power associated with stone and metal picking charges and water pumping)		0	0	0	0	0
7.1.1.2	Salaries, Wages & Allowances (Excluding loco pilots and man power associated with stone and metal picking charges and water pumping)		0	0	0	0	0
7.1.1.3	Loco pilots		0	0	0	0	0
7.1.1.4	Stone and metal picking		0	0	0	0	0
7.1.1.5	Water pumping		0	0	0	0	0
7.1.2	Pension		0	0	0	144.92	196.18
7.1.3	Gratuity		0	0	0	76.05	82.82
7.1.4	Provident Fund		0	0	0	204.45	300.47
7.1.5	Leave Encashment		0	0	0	191.04	236.48
7.2	Staff welfare expenses		0	0	0	0	0.30
7.2.1	Medical expenses on superannuated employees		0	0	0	0	0
7.2.2	Medical expenses on regular employees & others		0	0	0	67.46	97.46
7.2.3	Uniform/Livries & safety equipment		0	0	0	0.14	0
7.2.4	Canteen expenses		0	0	0	0	0
7.2.5	Other staff welfare expenses		0	0	0	31.68	30.62
	Subtotal (Staff welfare Expenses)		0	0	0	2899.54	4066.64
7.3	Productivity linked Incentive		0	0	0	0	0.00
7.4	Expenditure on VRS		0	0	0	0	0.00
7.5	Ex-gratia		0	0	0	0	0.00
7.6	Performance Related Pay(PRP)		0	0	0	0	81.94
	Sub Total (Employee Cost)		0	0	0	0	81.94
8	Loss of Store		0	0	0	0.18	0
9	Provisions		0	0	0	0	2484.80
10	Prior Period Expenses		0	0	0	0	0
11	Corporate Office expenses allocation		0	0	0	6.16	0
12	Others		0	0	0	138.43	143.57
12.1	Rates & Taxes		0	0	0	0.63	0.33
12.2	Water cess		0	0	0	0	0
12.3	Training & recruitment expenses		0	0	0	0	0
12.4	Tender Expenses		0	0	0	0	0
12.5	Guest house expenses		0	0	0	28.53	6.26
12.6	Education expenses		0	0	0	24.31	62.99
12.7	Community Development Expenses		0	0	0	0	0
12.7.1	CSR activities		0	0	0	66.49	49.46
12.8	Ash utilisation expenses		0	0	0	0	0
12.9	Books & Periodicals		0	0	0	0	0
12.1	Professional Charges		0	0	0	13.79	22.52
12.11	Legal expenses		0	0	0	53.34	0.78
12.12	EDP Hire & other charges		0	0	0	16.19	18.48
12.13	Printing & Stationery		0	0	0	0.29	7.39
12.14	RLDC Fee & Charges		0	0	0	0	0
12.15	Brokerage & Commission		0	0	0	0	0
12.16	Bank charges		0	0	0	0.11	0.09

12.17	Claims/advances written off		0	0	0	0	0
12.18	Hiring of vehicle		0	0	0	198.06	293.51
12.19	Payment to auditors		0	0	0	0	0
12.2	Misc. Expenses		0	0	0		0
	(Break-up Of Misc.)		0	0	0	0	0
12.20.1	Horticulture		0	0	0	0	0
12.20.2	Transport- Vehicle Running exp.		0	0	0	55.98	67.67
12.20.3	Hire charges & Operating Exp -Construction equipment		0	0	0	0.00	0
12.20.4 -	Tree Plantation exp.		0	0	0	0	0
12.20.5 -	R&D expenses		0	0	0	0	0
12.20.6	Other Vehicles		0	0	0	0	0
12.20.7	Consumption-HSD/LDO-(Ind/Imp)-DG Set		0	0	0	0	0
12.20.8	Exp/ Inc from Inv Diff		0	0	0	0	0
12.20.9	Loss on sale of Investments		0	0	0	0.00	0
12.20.10	Operating exp of diesel generating sets		0	0	0	0	0
12.20.11	Furnishing Expenses		0	0	0	0	0
12.20.12	Subscription to Trade and Other Association		0	0	0	0	0
12.20.13	Hire Charges - Helicopter/Aircraft		0	0	0	0	0
12.20.14	Visa & Entry Permit Charges - Overseas		0	0	0	0	0
12.20.15	FX Monitoring Terminal Expenses		0	0	0	0	0
12.20.16	Works/Conf.(Excl train R&D CENPEEP)Earlier Non FBT		0	0	0	0	0
12.20.17	Workshop/Conf. Exp (train R&D CENPEEP) Earlier FBT		0	0	0	0	0
12.20.18	Hire charges - Office equipment		0	0	0	0	0
12.20.19	Payment for health club etc		0	0	0	0	0
12.20.20	Gifts liable for Fringe Benefit Tax		0	0	0	0	0
12.20.21	Festival expenses liable Earlier (FBT)		0	0	0	0	0
12.20.22	Miscellaneous Expenses		0	0	0	56.98	29.65
12.20.23	Rounding Off Difference		0	0	0	0	0
12.20.24	Regional Power Committee Expenses		0	0	0	0	0
12.20.25	Misc Exp. trf to CSR and IEDC		0	0	0	0	0
12.20.26	Specify other sub head, if any.		0	0	0	0	0
	Sub Total (Others)		0	0	0	659.49	3187.49
13	(Total 1 to 12)		0	0	0	11586.78	20708.43
14	Revenue / Recoveries		0	0	0	158.83	169.64
15	Net Expenses		0	0	0	11427.96	20538.79
	Total O&M Cost		0	0	0	11427.96	20538.79

	(g) Special Allowance		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	h) Supplementary Tariff - Emission		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Absolute value	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Rate	(%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	i) Ash Utilisation Expenses	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
25	AFC	(Rs./ kWh)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
26	Energy Charge	(Rs./kWh)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
26.1	Supplemental Energy Charges - Emission Control	(Rs./kWh)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
27	Total tariff	(Rs. kWh)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
28	Revenue realisation before tax	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
29	Revenue realisation after tax	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
30	Profit/ loss	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
31	DSM Generation	(MU)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	158.054	36.83
32	DSM Rate	(Rs/kWh)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
33	Revenue from DSM	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.653	6.781
34	Compensation received for operation below NAPAF																			
35	Part load Compensation received from beneficiariaes																			
36	Amount received from SCED	(Rs Crore)																		

NOTE: Tariff Determination Petition has been filled before Hon'ble Commission

Note: 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