Annexure-III
SH 1/3

Pro-forma for furnishing Actual annual performance/operational data for the Hydro Electric generating stations for the year period 2022-23

	Particulars	Units	2022-23
1	Name of Company		NHPC LTD.
2	Name of Station		Chutak Power Station
3	Installed Capacity and Configuration	(MW)	44
3.1	Date of Commercial Operation - Unit Wise		Unit-I 29.11.2012 Unit-II 29.11.2012 Unit-III 29.11.2012 Unit-IV 01.02.2013
3.2	Effective COD		01.02.2013
4	Station Location	Under ground or	Under Ground
5	Type of Excitation System		Static
6	Live Storage Capacity	(Million Cubic)	
7	Rated Head	Metres	52
8	Head at Full Reservoir Level (FRL)	Metres	63.70
9	Head at Minimum Draw down Level (MDDL)	Metres	52
10	MW Capability at FRL	MW	44
11	MW Capability at MDDL	MW	NA
12	**Cost of spares :**		
12.1	Cost of spares capitalized in books of accounts	(Rs. Lakhs)	299.33
12.2	Cost of spares included in the capital cost for the purpose of tariff	(Rs. Lakhs)	
13	**Generation :**		
13.1	Actual Gross Generation at Generator Terminals	(MU)	166.81
13.2	Actual Net Generation Ex-bus including free power	(MU)	162.51
13.3	Scheduled generation Ex-bus including free power	(MU)	162.63
14	Actual Auxiliary Energy Consumption excluding colony consumption	(MU)	3.59
15	Actual Energy supplied to Colony from the station	(MU)	0.82
16	**Average Declared Capacity (DC) during the year**		
16.1	Actual Declared Capacity (DC) during the year	(MW)	25.84
16.2	Deemed Declared Capacity	(MW)	0.00
16.3	Actual energy supplied to beneficiaries	(MU)	162.63
16.4	Actual energy supplied in DSM	(MU)	-0.11
16.5	Actual energy supplied in exchange	(MU)	0.00
	Period	**Units**	
17	Weighted Average duration of outages **(Unit-wise details)**		
17.1	Scheduled outages	(Days)	AS PER **APPENDIX-A**
17.2	Forced outages	(Days)	
17.2.a	Within the control of generator	MU	85
17.2.b	Beyond the control of generator	MU	127
17.2.c	Shortfall in energy claimed / allowed *	MU	127
18	Cost of spares actually consumed	(Rs. Lakhs)	346.79
19	Average stock of spares	(Rs. Lakhs)	982.31

*** Shortfall energy claim is tentative and filing of shortfall petition is under process.**

Annexure-III
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Month wise Design Energy

Month	Period	Design Energy as approved by CEA (MU)	Month	Period	Design Energy as approved by CEA (MU)
April	1-10	3.29	October	1-10	6.17
	11-20	3.30		11-20	4.50
	21-30	3.92		21-31	4.40
May	1-10	5.07	November	1-10	4.38
	11-20	6.64		11-20	3.96
	21-31	9.67		21-30	3.78
June	1-10	10.03	December	1-10	2.86
	11-20	10.03		11-20	2.76
	21-30	10.03		21-31	3.02
July	1-10	10.03	January	1-10	2.75
	11-20	10.03		11-20	2.75
	21-31	11.04		21-31	3.02
August	1-10	10.03	February	1-10	2.75
	11-20	9.93		11-20	2.75
	21-31	11.04		21-28	2.20
Septembe	1-10	10.03	March	1-10	2.97
	11-20	9.15		11-20	3.19
	21-30	7.75		21-31	3.69
			Total		**212.93**

Storage Hydro plants shall also furnish actual monthly average peaking generation in MW achieved during the period 2017-18 to 2022-23 against the monthly average peaking capability approved by CEAas 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 2022-23
April	NOT APPLICABLE	
May		
June		
July		
August		
Septembe		
October		
November		
December		
January		
February		
March		

Annexure III
SH 3/3

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.

As per Appendix- B

As per allocation of firm power issued by GOI vide their letter dated 02.09.2011. The unallocated share of 15% is allocated to J&K state during the winter months.

2 Declared Capacity should be as per Regulation of CERC Tariff Regulations for the period 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)
NA

Annexure –IV

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIEVED

Generating company: NHPC LTD.
Name of Generating station: Chutak Power Station
Installed Capacity (MW) : 44 MW
Normative Annual Plant Availability Factor (%) approved by Commission :
1. 2014-19: 50%
2. 2019-24: 48%

Plant Availability Factor Achieved (%)		
Month	**2022-23**	Reasons for shortfall in PAF achieved vis-a-vis NAPAF
April	52.63	
May	80.18	
June	94.27	
July	105.74	
August	106.67	
September	92.55	
October	51.79	
November	51.29	
December	26.68	
January	26.13	
February	25.41	
March	26.48	
Annual	**61.83**	

Plant Load Factor Achieved (%)		
Month		Reasons for shortfall in PLF achieved vis-a-vis Target PLF
April	NOT APPLICABLE	
May		
June		
July		
August		
September		
October		
November		
December		
January		
February		
March		
Annual		

Annexure-XIX

Name of the Utility		**NHPC LTD.**
Name of the Generating Station		**Chutak Power Station**
Station/ Stage/ Unit		**4x11 MW**
Fuel Type (Coal/ Lignite/ Gas/ Liquid Fuel/ Nuclear/ Hydro		
Capacity of Plant (MW)		**44 MW**
COD		**Feb-2013**
		2022-23
1	Plant Availability Factor (PAF) (%)	61.83
2	Plant Load Factors (PLF) (%)	
3	Scheduled Energy (MU)	162.63
4	Scheduled Generation (MU)	
5	Actual Generation (MU)	166.81
	Actual Generation Ex-bus (MU)	162.51
	Actual energy supplied to beneficiaries	162.63
6	Quantum of coal consumption (MT)	
7	Value of coal (Rs. Lakh)	
8	Specific Coal Consumption (kg/kwh)	
9	Gross Calorific Value of Coal (Kcal/ Kg)	
10	Heat Contribution of Coal (Kcal/ kwh)	
11	Cost Of Specific Coal Consumption (Rs./Kwh) – Finally admitted by CERC	
12	Quantum of Oil Consumption (Lit.)	NOT APPLICABLE
13	Value of Oil (Rs. lakh)	
14	Gross calorific value of oil (kcal/lit)	
15	Specific Oil Consumption (ml/ kwh)	
16	Cost Of Specific Oil Consumption (Rs./Kwh) – Finally admitted by CERC	
17	Heat Contribution of Oil (Kcal/ kwh)	
18	Station Heat Rate (kcal/kwh)	
19	Auxiliary Energy Consumption (%)	2.15
20	Debt at the end of the year (Rs. Crore)	191.98
21	Equity - Average (Rs. Crore)	282.71
22	Working Capital (Rs. Crore) – finally admitted by CERC	29.834
23	Capital cost (Rs. Crore) – finally admitted by CERC	945.34
24	Capacity Charges/ Annual Fixed Cost (AFC)	156.61
	(a) Return on equity – post tax (admitted by CERC up to 2009) and Pre Tax post 2009	
	Absolute value	53.13
	Rate (%)	18.78%
	(b) interest on Loan	
	Absolute value	7.82
	Rate (%) – Weighted Average Rate	3.63%
	(c) Depreciation (finally allowed by CERC)	
	Absolute value	47.41
	ADD	
	Rate (%)	5.02%
	(d) Interest on working Capital	
	Absolute value	3.13
	Rate (%)	10.50%
	(e) Operation and maintenance cost (finally admitted by CERC)	
	Absolute value	45.11
	Rate (%)	
	(f) Compensation Allowances	NA
	(g) Special Allowance	
25	AFC (Rs. Kwh)	156.61
26	Energy Charge (Rs./Kwh)	4.45
27	Total tariff (Rs. Kwh)	8.90
28	Revenue realisation before tax (Rs. Crore)	92.73
29	Revenue realisation after tax (Rs. Crore)	
30	Profit/ loss (Rs. Crore)	109.35
31	DSM Generation (MU)	-0.11
32	DSM Rate (Ps/Kwh)	
33	Revenue from DSM (Rs. Crore)	0.00
34	Compensation received for operation below NAPAF	Not Applicable
35	Part Load Compensation received from beneficiaries	
36	Amount received from SCED	

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.