

Pro-forma for furnishing Actual annual performance/operational data for the Gas/Liquid Fuel based thermal generating stations for the 5 year period from 2017-18 to 2021-22

S.N	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
1	Name of Company		NTPC Ltd				
2	Name of Station		Auraiya Gas Power Station				
3	Installed Capacity and Configuration	MW	663.36 (4 GTs=4*111.19 & 2 STs=2*109.3)				
	Stage						
3.1	Date of Commercial Operation - Unit Wise		GT-1: 01.10.1990 GT-2: 01.10.1990 GT-3: 01.11.1990 GT-4: 01.11.1990 ST-1: 01.11.1990 ST-2: 01.12.1990				
3.2	Effective COD		01-12-1990				
4	Make of Turbine		MHI				
5	Rated Steam Parameters		HP steam- 62.3Ksc & 495°C. LP steam- 6.0Ksc & 164°C				
6	Average site ambient conditions		27°C & 60%RH				
7	Any other Site specific feature		Primary Fuel- Natural Gas & Alternate Fuel- Naphtha				
8	Fuels :						
8.1	Main/Primary Fuel		Natural Gas/RLNG				
8.1.1	Annual Allocation/ Requirement (MMSCMD)	Domestic gas	0.08	0.12	0.28	0.35	0.09
		RLNG	0.67	2.12	3.04	1.10	0.83
		Total	0.75	2.24	3.32	1.45	0.92
8.1.2	Sources of supply		GAIL , GSPCL,SHELL,BPCL,HPCL				
8.1.3	Transportation Distance of the station from the Sources of supply	KM	1200 (GAIL HVJ/DVPL pipeline)				
8.1.4	Mode of Transport		Pipeline network for gas stations				
8.2	Alternate Fuel :		Naphtha				
8.2.1	Annual Allocation/ Requirement	Million Cubic meter or MT or Kilo Litre	NA				
8.2.2	Sources of supply		HPCL, Mumbai				
8.2.3	Transportation Distance of the station from the Sources of supply	KM	1600				
8.2.4	Mode of Transport		Rail				
8.2.5	Maximum Station capability to stock secondary fuels	KL	3000KL				
9	Cost of Spares :						
9.1	Cost of Spares capitalized in the books	(Rs. Lakhs)	1,283.14	160.00	229.92	72.37	761.58
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakhs)	0.00	0.00	0.00	0.00	0.00
10	Generation :						
10.1	Actual Gross Generation at generator terminals	MU	376.99	545.01	444.76	687.32	361.17
10.1.1	Total	MU					
10.1.2	On Gas	MU	366.65	538.42	444.60	687.03	353.78
10.1.3	On Naphtha or any other liquid fuel	MU	10.34	6.59	0.15	0.29	7.39
10.2	-Actual Net Generation Ex-bus	MU	356.54	520.86	422.95	662.46	345.55
10.3	-Scheduled Generation Ex-bus	MU	374.67	540.09	437.95	676.49	371.00
11	Average Declared Capacity (DC)	MW	586.44	606.67	612.57	612.97	576.62

		DC Peak HD %	%	-	-	-	94.50	86.19
		DC Off Peak HD %	%	-	-	-	94.27	85.96
		DC Peak LD %	%	-	-	-	94.18	90.98
		DC Off Peak LD %	%	-	-	-	93.76	90.43
12	Actual Auxiliary Energy Consumption excluding colony consumption & agency power		MU	17.65	21.47	18.74	21.84	13.03
13	Actual Energy supplied to Colony from the station and Agency Power		MU	2.80	2.68	3.06	3.02	2.59
14	Main/Primary Fuel :							
14.1	Consumption		(MSCM, MT or KL) - Specify					
14.1.1	Natural Gas	APM Gas	SCM	3,03,81,573	4,48,63,089	9,88,08,626	11,54,45,168	3,13,64,882
		Non-APM Gas	SCM					
14.1.2	RLNG		SCM	5,81,70,137	8,93,74,300	1,56,18,905	5,44,99,469	6,04,47,200
14.1.3	Liquid Fuel		KL	3,107	1,901	50	133	3,226
14.2	Weighted Gross Calorific Value (GCV)							
14.2.1	Natural Gas (as received)		kCal/SCM	9,236	9,175	9,180	9,296	9,175
14.2.2	RLNG (as received)		kCal/SCM	9,303	9,180	9,310	9,174	9,188
14.2.3	Liquid fuel (as received)		kCal/Lt.	7,975	7,868	7,871	7,824	7,899
14.3	Weighted Average Landed Price							
14.3.1	APM Gas		Rs. /1000 SCM					
14.3.2	Non-APM Gas		Rs. /1000 SCM	11,928	14,547	14,549	10,053	8,838
14.3.3	RLNG		Rs. /1000 SCM	33,025	40,069	33,484	25,702	58,507
14.3.4	Liquid Fuel		Rs./KL	47,107	63,942	59,598	45,928	50,974
14.4	Percentage of Declared Capacity							
14.4.1	APM Gas		%					
14.4.2	Non-APM Gas		%	2.95	3.46	8.20	9.75	2.65
14.4.3	RLNG		%	20.48	66.08	85.40	34.74	42.30
14.4.4	Liquid Fuel		%	76.57	30.45	6.39	55.51	55.05
14.5	Actual Average stock maintained for liquid fuel		(KL)	2,689.28	2,638.75	2,585.02	2,570.71	2,658.00
15	Alternate Fuel : RLNG/Liquid							
15.1	Consumption		KL	3,107.34	1,901.33	50.00	133.00	3,226.44
	Weighted Average Gross Calorific		(kCal /Lt.)	7,975.09	7,868.13	7,871.37	7,824.21	7,898.57
15.3	Weighted Average Landed Price		(Rs per KL)	34,134.72	37,350.03	45,851.04	45,519.27	60,307.49
15.4	Actual Average stock		KL	2,689.28	2,638.75	2,585.02	2,570.71	2,658.00
16	Weighted average duration							
16.1	Planned Outages		(Days)	11.50	2.81	14.78	8.59	0.31
16.2	Forced Outages		(Days)	0.39	0.06	2.93	0.15	0.75
16.3	Number of tripping		Nos.	1	4	2	3	3
16.4	Number of start-ups		Nos.	58	89	104	41	189
16.4.1	Cold Start-up		Nos.	24	21	9	11	28
16.4.2	Warm Start-up		Nos.					
16.4.3	Hot start-up		Nos.					
17	Cost of spares consumed		Rs. Lakhs	75.03	57.91	74.73	79.36	19.68
18	Average stock of spares		Rs. Lakhs	3,054.14	3,023.65	3,044.42	3,065.91	3,206.70
19.	NOx and other particulate matter							
19.1	Design value		mg/Nm ³	As per Annexure A				
19.2	Actual emission		mg/Nm ³					
20	Number of employees deployed in		Nos.	153	124	123	115	105
20.1	- Executive		Nos.	59	38	46	39	34
20.2	- Non Executive		Nos.	94	86	77	76	71
20.3	Corporate Office		Nos.	2,568	2,241	2,016	1,815	1,728

21	Man-MW ratio	Man/MW	0.23	0.19	0.19	0.17	0.16
----	--------------	--------	------	------	------	------	------

DETAILS OF WATER CHARGES

Name of the Company: NTPC Ltd
Name of the Power Station and Stage/Phase: Auraiya Gas Power Station

(Rs. In Lakhs)

Sl.No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
(A)	Plant					
1	Type of Plant	Combined Cycle				
2	Type of Cooling Tower	Closed cycle CT				
3	Type of Cooling Water System	Induced Draft				
4	Any Special Features which may increase/reduce water consumption					
(B)	Quantum of Water : (Cubic Meter)					
5	Contracted Quantum	1,16,09,064	1,16,09,064	1,16,40,870	1,16,09,064	1,16,09,064
6	Allocation of Water	71,56,272	58,20,435	62,33,908	71,56,272	49,29,876
7	Actual water Consumption	9,02,664	14,45,593	14,00,126	18,71,254	12,46,961
8.	Rate of Water Charges					
9	Other charges/Fees , if paid as part of Water Charges					
10	Total water Charges Paid	117.44	111.82	109.31	122.77	122.94

DETAILS OF OPERATIONS AND MAINTENANCE EXPENSES

Name of the Company:
Name of the Power Station

NTPC Ltd
Auraiya GPS (663.36 MW)

(Rs. In Lakhs)

Sl. No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
(A)	Details of Capital Spares in opening Stock	31,369.31	32,577.41	32,679.50	32,834.69	32,827.69
(B)	Details of Capital Spares procured during the	1,283.14	160.00	229.92	72.37	761.58
(C)	Details of capital spares consumed during the	75.03	57.91	74.73	79.36	19.68
(D)	Details of capital spares closing at the end of the	32,577.41	32,679.50	32,834.69	32,827.69	33,569.58

