

**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		Dadri Gas Power Station				
3	Installed Capacity and Configuration	MW	829.78 MW (2( 130.19x2+154.51))				
	Stage						
3.1	Date of Commercial Operation - Unit Wise		GT-1:01.05.1992, GT-2: 01.06.1992, GT-3: 01.08.1992, GT-4: 01.12.1992, ST-1:01.08.1996, ST-2:01.04.1997				
3.2	Effective COD		01.04.1997				
4	Make of Turbine		Siemens AG, Germany				
5	Rated Steam Parameters		HP Pr/Flow/Temp-65Bar,225.9 TPH,5300C				
6	Average site ambient conditions		270C , 987 mbar,RH-60%				
7	Any other Site specific feature		NIL				
8	<b>Fuels :</b>						
8.1	Main/Primary Fuel		<b>Natural Gas/RLNG</b>				
8.1.1	Annual Allocation/ Requirement(MMSCMD)	Domestic gas	0.91	0.77	0.94	0.81	0.12
		RLNG	0.74	2.37	3.10	1.59	1.21
		Total	1.65	3.14	4.04	2.40	1.33
8.1.2	Sources of supply		GAIL , GSPCL,SHELL,IOCL,BPCL,HPCL				
8.1.3	Transportation Distance of the station from the Sources of supply	KM	1200 (GAIL HVJ/DVPL/ IOCL pipelines )				
8.1.4	Mode of Transport		Pipeline network for gas stations ,				
8.2	<b>Alternate Fuel :</b>		<b>HSD</b>				
8.2.1	Annual Allocation/ Requirement	Million Cubic meter or MT or Kilo Litre	NA				
8.2.2	Sources of supply		IOCL/BPCL/HPCL				
8.2.3	Transportation Distance of the station from the Sources of supply	KM	IOCL (from Panipat 150 Kms), BPCL (from Mumbai 1200 Kms), HPCL (From Mumbai 1200 Kms)				
8.2.4	Mode of Transport		Railways				
8.2.5	Maximum Station capability to stock secondary fuels	KL	18000KL				
9	<b>Cost of Spares :</b>						
9.1	Cost of Spares capitalized in the books	(Rs. Lakhs)	1,907.09	3,776.11	3,588.47	3,803.64	4,520.02
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakhs)	-	-	-	-	-
10	<b>Generation :</b>						
10.1	Actual Gross Generation at generator terminals	MU	1,627.79	1,662.13	1,851.80	1,783.34	787.28
10.1.1	<b>Total</b>	MU	1,627.79	1,662.13	1,851.80	1,783.34	787.28
10.1.2	On Gas	MU	1,615.84	1,622.45	1,851.80	1,782.56	718.69

10.1.3	On HSD		MU	11.95	39.68	0.00	0.78	68.59
10.2	-Actual Net Generation Ex-bus		MU	1,575.36	1,605.02	1,782.03	1,714.58	740.66
10.3	-Scheduled Generation Ex-bus		MU	1,651.81	1,649.72	1,857.07	1,772.71	761.75
11	Average Declared Capacity (DC)		MW	767.42	729.91	742.67	769.72	733.62
		DC Peak HD %	%				87.13	85.86
		DC Off Peak HD %	%				87.00	86.39
		DC Peak LD %	%				98.05	92.24
		DC Off Peak LD %	%				98.64	92.51
12	Actual Auxiliary Energy Consumption excluding colony consumption & agency power		MU	52.43	57.11	69.77	68.76	46.62
13	Actual Energy supplied to Colony from the station and Agency Power		MU	-	-	-	-	-
14	<b>Main/Primary Fuel :</b>							
14.1	<b>Consumption</b>		(MSCM, MT or KL) - Specify					
14.1.1	Natural Gas	APM Gas	MSCM	326.58	273.86	337.96	282.62	44.70
		Non APM Gas	MSCM	NA	NA	NA	NA	NA
14.1.2	RLNG		MSCM	44.07	98.94	95.33	125.56	124.06
14.1.3	Liquid Fuel		KL	2,981.18	9,337.71	1.01	197.00	17,458.43
14.2	<b>Weighted Gross Calorific Value (GCV)</b>							
14.2.1	Natural Gas (as received)		kCal/SCM	9,227.82	9,220.02	9,197.34	9,192.48	9,155.16
14.2.2	RLNG (as received)		kCal/SCM	9,227.82	9,220.02	9,197.34	9,192.48	9,155.16
14.2.3	Liquid fuel (as received)		kCal/Lt.	9,082.69	9,054.69	9,075.00	9,086.07	9,055.22
14.3	<b>Weighted Average Landed Price</b>							
14.3.1	APM Gas		Rs. /1000 SCM	13,973.42	15,289.06	14,710.81	9,948.95	9,164.26
14.3.2	CRLNG Gas		Rs. /1000 SCM	-	-	35,709.38	26,743.06	41,370.27
14.3.3	RLNG		Rs. /1000 SCM	32,506.00	39,605.82	35,709.38	26,743.06	41,370.27
14.3.4	Liquid Fuel		Rs./KL	38,356.44	53,601.47	54,936.49	54,936.49	75,651.34
14.4	<b>Percentage of Declared Capacity</b>							
14.4.1	APM Gas		%	26.51	20.66	23.22	19.17	3.24
14.4.2	CRLNG Gas		%	-	-	-	9.55	6.58
14.4.3	RLNG		%	19.00	59.95	74.90	29.77	24.94
14.4.4	Liquid Fuel		%	54.49	19.39	1.88	41.52	65.24
14.5	<b>Actual Average stock maintained for liquid fuel</b>		(KL)	5,686.78	6,042.95	6,041.94	5,844.94	7,793.86
15	<b>Alternate Fuel : HSD</b>							
15.1	Consumption		KL	2,981.18	9,337.71	1.01	197.00	17,458.43
	Weighted Average Gross Calorific		(kCal /Lt.)	9,082.69	9,054.69	9,075.00	9,086.07	9,055.22
15.3	Weighted Average Landed Price		(Rs per KL/SCM)	38,356.44	53,601.47	54,936.49	54,936.49	75,651.34
15.4	Actual Average stock		KL	5,686.78	6,042.95	6,041.94	5,844.94	7,793.86
16	<b>Weighted average duration</b>							
16.1	Planned Outages		(Days)	4.78	21.95	13.99	6.31	1.80
16.2	Forced Outages		(Days)	2.42	0.40	1.01	0.17	0.44
16.3	Number of tripping		Nos.	18	16	4	10	14
16.4	Number of start-ups		Nos.					
16.4.1	Cold Start-up		Nos.	14	19	14	8	14
16.4.2	Warm Start-up		Nos.	11	7	1	1	11

16.4.3	Hot start-up	Nos.	8	12	0	6	8
17	Cost of spares consumed	Rs. Lakhs	216.79	510.06	841.95	30.90	196.81
18	Average stock of spares	Rs. Lakhs	3,523.30	3,498.17	3,525.11	3,672.36	4,017.93
19.	NOx and other particulate matter						
19.1	Design value	mg/Nm <sup>3</sup>	As per Annexure A				
19.2	Actual emission	mg/Nm <sup>3</sup>					
20	Number of employees deployed in O&M		92	81	75	73	63
20.1	- Executive	Nos.	43	34	29	29	26
20.2	- Non Executive	Nos.	49	47	46	44	37
20.3	Corporate Office	Nos.	2,568	2,241	2,016	1,815	1,728
21	Man-MW ratio	Man/MW	0.11	0.10	0.09	0.09	0.08

## DETAILS OF WATER CHARGES

Name of the Company:

NTPC Ltd.

Name of the Power Station and Stage/Phase:

Dadri Gas Power Station (829.78 MW)

(Rs. In Lakhs)

Sl.No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
<b>(A)</b>	<b>Plant</b>					
1	Type of Plant	Gas Based combined cycle generation plant				
2	Type of Cooling Tower	IDCT				
3	Type of Cooling Water System	Circulating closed type				
4	Any Special Features which may increase/reduce water consumption	-				
<b>(B)</b>	<b>Quantum of Water : ( Cubic Meter)</b>					
5	Contracted Quantum (CUSEC)	5.64	5.02	3.50	3.50	3.50
6	Allocation of Water (CUSEC)	28 cusec				
7	Actual water Consumption (1000 cft)	13,65,024	9,51,552	16,68,065	15,40,608	3,11,922
8.	Rate of Water Charges	Water Rate: Rs 12.48 per 1000 cft; Royalty: Rs 6 Lakh/Cusec/Year.				
9	Other charges/Fees , if paid as part of Water Charges					
10	<b>Total water Charges Paid (Rs Lakh)</b>	<b>56.06</b>	<b>49.87</b>	<b>53.48</b>	<b>34.84</b>	<b>48.59</b>

---

**Annexure-VI (D)****Details of capital Spares****Name of Company : NTPC Limited****Name of Power station : Dadri Gas Power Station (829.78 MW)****(Rs. In Lakhs)**

<b>Sl. No.</b>	<b>ITEM</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>
(A)	Details of capital spares in Opening stock	31,649	33,339	36,605	39,352	43,124
(B)	Details of capital spares procured during the year	1,907	3,776	3,588	3,804	4,520
(C)	Details of capital spares consumed during the year	217	510	842	31	197
(D)	Details of capital spares closing at the end of the year	33,339	36,605	39,352	43,124	47,447

---



61	Amount received from SCED	(Rs Crore)														-	-	-	-	-
----	---------------------------	------------	--	--	--	--	--	--	--	--	--	--	--	--	--	---	---	---	---	---

^ Additional data related to Loading factor (%) submitted  
DSM Revenue (-)Received / (+) Paid