

ANNEXURE-II

Pro-forma furnishing Actual annual performance/operational data for the Gas/ Liquid fuel based thermal generating stations for the 5 year period from 2012-13 to 2016-17

	Particulars	Units	2012-13	2013-14	2014-15	2015-16	2016-17
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))				
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						
8	Fuels:						
8.1	Main/Primary Fuel		Natural Gas/RLNG				
8.1.1	Annual Allocation (MMSCMD)	Dom. Gas RLNG Total	1.98 0.88 2.86	1.97 1.88 3.85	1.37 2.59 3.96	1.58 2.31 3.89	1.37 0.82 2.19
8.1.2	Sources of Supply		GAIL				
8.1.3	Transportation Distance of the station from the sources of supply	Km	1200 (GAIL HVJ/DVPL pipeline Zone-4)				
8.1.4	Mode of Transport		Pipeline				
8.1.5	Maximum Station capability to stock main/primary fuel	Million Cubic meter or MT or Kilo Litre	N/A				
8.2	Alternate Fuel:		HSD				
8.2.1	Annual Allocation/ Requirement	Million Cubic meter or MT or Kilo Litre	N/A				
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		Railway				
8.2.5	Maximum Station capability to stock secondary fuels	Kilo Litre	17000				

	Particulars	Units	2012-13	2013-14	2014-15	2015-16	2016-17
9	Cost of Spares :						
9.1	Cost of Spares capitalized in the books	(Rs. Lakhs)	1741.44	2296.69	3334.73	511.87	2064.84
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakhs)	0	0	0	0	0
10	Generation						
10.1	Actual Gross Generation at generator terminals	MU	4,417.60	3,399.82	2,530.18	2,999.31	2,236.96
10.1.1	Total	MU	4,417.60	3,399.82	2,530.18	2,999.31	2,236.96
10.1.2	On Gas	MU	4,414.33	3,399.81	2,526.33	2,999.31	2,236.88
10.1.3	On Naptha or any other fuel	MU	3.27	0.01	3.85	0	0.07
10.2	Actual Net Generation Ex-bus	MU	4,311.53	3,314.81	2,462.22	2,924.17	2,177.57
10.3	Scheduled Generation Ex-bus	MU	4400.94	3406.81	2546.28	3025.47	2301.89
11	Average Declared Capacity (DC)	MW	786.21	784.53	776.44	793.72	729.12
12	Actual Auxiliary Energy Consumption excluding colony consumption & agency power	MU	106.02	84.88	67.83	74.97	59.23
13	Actual Energy supplied to Colony from the station & Agency Power	MU	0	0	0	0	0
14	Main / Primary Fuel:						
14.1	Consumption :	MCM/MT/ KI	921,119,079	723,135,249	677,155,743	485,338,529	556,963,490
14.1.1	Natural Gas : APM Gas	SCM	723135249	677155743	485338529	556963490	481519878
	Non-APM Gas	SCM					
14.1.2	RLNG		198270014	28001304	40549512	5983302	752127
14.1.3	Liquid Fuel	KL	759.1	1.21	867.64	1.01	35.8
14.2	Weighted Gross Calorific Value (GCV)						
14.2.1	Natural Gas (As recieved)	kcal/scm	9604	9629	9644	9602	9456
14.2.2	RLNG/ E-RLNG (As recieved)	kcal/scm	9604	9629	9644	9602	9456
14.2.3	Liquid Fuel (As recieved)	kcal/Lt	9040	9030	9040	9040	9040
14.3	Weighted Average Landed Price	(Rs per 1000 SCM)					
14.3.1	APM	(Rs per 1000 SCM)					
14.3.2	Non-APM	(Rs per 1000 SCM)					

	Particulars	Units	2012-13	2013-14	2014-15	2015-16	2016-17
14.3.3	RLNG / E-RLNG	(Rs per 1000 SCM)					
14.3.4	Liquid Fuel	(Rs per 1000 SCM)					
14.4	Percentage of Declared Capacity	%	97.67	97.46	95.97	98.11	90.12
14.4.1	APM Gas+PMT + NON APM GAS	%	55.8	58.1	46.1	55.9	47.2
14.4.2	NON APM	%				4.7	
14.4.3	RLNG	%	43.2	41.8	53.8	36.7	16.9
14.4.4	Liquid Fuel	%	0.92	0.11	0.01	2.7	35.8
14.4	Actual Average stock maintained						
15	Alternate Fuel:(RLNG/Liquid)		HSD	HSD	HSD	HSD	HSD
15.1	Consumption	MT/ KL	759.1	1.21	867.64	1.01	35.8
15.2	Weighted Average Gross Calorific value (As fired)	kCal/ Kg/	9,040	9,030	9,040	9,040	9,040
15.3	Weighted Average Landed Price						
15.4	Actual Average stock maintained	MT	6647.04	6645.8	5778.2	5543.3	5507.6
16	Weighted average duration of outages :						
16.1	Planned Outages	(Days)	6.43	11.89	12.61	4.22	24.30
16.2	Forced Outages	(Days)	0.24	0.40	0.27	0.11	0.31
16.3	Number of tripping	Nos.	10	11	12	2	7
16.4	Number of start-ups :	Nos.					
16.4.1	Cold Start-up	Nos.	77	84	76	58	51
16.4.2	Warm Start-up	Nos.	10	4	3	----	1
16.4.3	Hot start-up	Nos.	15	10	8	1	8
17	Cost of spares consumed	Rs. Lakhs	557	1082	1136	602	760
18	Average stock of spares	Rs. Lakhs	3470.06	3752.73	3716.94	3425.26	3400.18
19	NOx and other particulate matter emission :						
19.1	Design value						
19.2	Actual emission						
20	Number of employees deployed in O&M / Non O&M						
20.1	- Executive		57	58	53	52	58
20.2	- Non Executive		61	62	59	57	51
20.3	Corporate Office		3170	3051	2916	2973	2787
21	Man-MW ratio	Man/MW	0.14	0.14	0.13	0.13	0.13

Note: Allocation of stations attached at Appendix-I
Man-MW ratio computed excluding Corporate Employees

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

Name of the Company:
Name of the Power Station:

NTPC Ltd.
Dadri Gas Power Plant

Rs. Lakhs

Sl. No.	Items	2012-13	2013-14	2014-15	2015-16	2016-17
1	Consumption of stores & spares	557.01	1081.59	1136.03	601.84	760.25
2	Repair & Maintenance	1191.23	1737.27	1335.27	1160.43	2412.06
3	Insurance	179.51	196.26	197.67	376.49	207.86
4	Security	40.06	47.07	54.53	58.47	958.17
5	Water Charges	87.78	76.32	61.20	58.20	53.75
6	Administrative Expenses					
6.1	Rent	0.00	0.00	0.00	0.00	0.00
6.2	Electricity charges	85.92	95.22	275.64	107.47	75.78
6.3	Travelling & Conveyance	127.06	141.17	128.04	119.69	127.13
6.4	Communication Expenses	28.78	30.50	27.90	53.89	46.47
6.5	Advertising	2.39	3.40	7.70	8.77	10.94
6.6	Foundation Laying & Inauguration	0.00	0.00	0.00	0.00	0.00
6.7	Donation	0.00	0.00	0.00	0.00	0.00
6.8	Entertainment	10.98	15.26	16.22	18.73	19.86
6.9	Filing fee	33.19	36.51	36.51	36.51	36.51
	Subtotal (Administrative Expenses)	288.33	322.06	492.01	345.06	316.69
7.0	Employee Cost					
7.1.1	Salaries, Wages & Allowances	1850.91	1864.37	1961.96	1945.93	2322.69
7.1.2	Pension	11.21	319.47	170.55	172.52	168.38
7.1.3	Gratuity	71.06	26.41	-11.06	-7.52	378.66
7.1.4	Provident Fund	139.85	156.05	158.44	157.67	163.21
7.1.5	Leave Encashment	235.80	227.69	214.55	235.11	316.29
7.2	Staff welfare expenses					
7.2.1	-Medical expenses on superannuated employees	2.54	1.52	3.35	10.13	-3.90
7.2.2	-Medical expenses on regular employees & others	186.33	189.93	212.35	250.34	144.74
7.2.3	-Uniform/Livries & safety equipment	13.87	36.34	34.74	29.55	39.61
7.2.4	-Canteen expenses	41.67	42.39	43.49	48.51	52.41
7.2.5	-Other staff welfare expenses	35.13	33.15	33.63	24.71	30.16
	Subtotal (Staff welfare Expenses)	279.54	303.34	327.57	363.24	263.02
7.3	Productivity linked Incentive	89.57	84.05	37.01	26.17	0.00
7.4	Expenditure on VRS	0.00	0.00	0.00	0.00	0.00
7.5	Ex-gratia	52.34	56.10	89.38	52.20	51.96
7.6	Performance Related Pay (PRP)	154.00	80.66	123.88	155.21	194.38
	Sub Total (Employee Cost)	2884.30	3118.13	3072.28	3100.54	3858.58
8	Loss of Store	0.00	0.00	0.00	0.00	0.00
9	Provisions	0.26	0.76	42.96	0.11	0.00
10	Prior Period Expenses	0.00	0.00	0.00	0.00	0.00
11	Corporate Office expenses allocation	2134.90	2159.16	2296.20	2363.11	2415.74
12	Others					
12.1	Rates & Taxes	4.10	2.66	2.49	8.82	11.99
12.2	Water cess	22.84	23.60	9.26	14.18	12.78
12.3	Training & recruitment expenses	43.17	23.13	24.62	25.28	24.24
12.4	Tender Expenses	17.63	33.38	21.86	23.64	25.55
12.5	Guest house expenses	26.47	39.45	39.92	49.17	78.16

Rs. Lakhs

Sl. No.	Items	2012-13	2013-14	2014-15	2015-16	2016-17
12.6	Education expenses	36.88	38.22	117.47	49.30	53.65
12.7	Community Development Expenses	153.12	127.74	15.74	38.91	44.08
12.8	Ash utilisation expenses	0.00	0.00	0.00	0.00	0.00
12.9	Books & Periodicals	0.82	0.94	0.26	1.39	0.56
12.10	Professional Charges	3.48	12.92	13.18	2.44	4.78
12.11	Legal expenses	47.65	2.13	9.49	4.22	0.74
12.12	EDP Hire & other charges	6.39	14.43	33.14	41.73	50.26
12.13	Printing & Stationery	12.25	16.03	16.33	13.63	17.24
12.14	Misc Expenses	291.71	656.01	363.97	236.71	309.68
	Sub Total (Others)	666.51	990.65	667.72	509.43	633.72
13	(Total 1 to 12)	8029.90	9729.27	9355.88	8573.67	11616.81
14	Revenue / Recoveries	-22.52	-23.79	-24.37	-30.52	-19.58
15	Net Expenses	8007.38	9705.48	9331.52	8543.15	11597.23
16	Capital spares consumed	103.34	219.76	591.36	309.92	1707.37
	Total O&M Cost	8110.72	9925.24	9922.88	8853.07	13304.59

DETAILS OF WATER CHARGES

Name of the Company: NTPC Ltd.

Name of the Power Station and Stage/Phase: DADRI GAS POWER PROJECT

(Rs. In Lakhs)

Sl.No.	ITEM	2012-13	2013-14	2014-15	2015-16	2016-17
1	2	3	4	5	6	7
(A)	Plant					
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)	Quantum of Water : (Cubic Meter)					
5	Contracted Quantum					
6	Allocation of Water					
7	Actual water Consumption (Lac KL)	77395	67221	53957	51317	47407
8	Rate of Water Charges	12.48	12.48	12.48	12.48	12.48
9	Other charges/Fees , if paid as part of Water Charges	5301041	4604164	3695671	3514870	3247028
	Water Charges Paid Rs. Lakhs	87.78	76.32	61.20	58.20	53.75

Details of capital Spares

Name of Company : NTPC Limited

Name of Power station : Dadri Gas Station

Sl . No.	ITEM	2012-13	2013-14	2014-15	2015-16	2016-17
(A)	Details of capital spares in Opening stock	24566	26204	28281	31025	31227
(B)	Details of capital spares procured during the year	1741	2297	3335	512	2065
(C)	Details of capital spares consumed during the year	103	220	591	310	1707
(D)	Details of capital spares closing at the end of the year	26204	28281	31025	31227	31649

Note: Details of spares being provided in soft copy as voluminous

Name of the Utility: NTPC Ltd														
Name of the Generating Station: Dadri Gas Power Station														
Station/ Stage/ Unit: 829.78 MW (2(130.19x2+154.51))														
Fuel Type (Coal/ Lignite/ Gas/ Liquid Fuel/ Nuclear/ Hydro): Combined Cycle														
Capacity of Plant (MW): 829.78 MW														
COD : 01.04.1997														
		2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
29	Revenue realisation after tax (Rs. Crore)													
30	Profit/ loss (Rs. Crore)	281.81	220.92	339.45	405.33	306.85	295.68	411.40	389.67	706.34	384.19	129.14	60.72	209.60
31	DSM Generation (MU)	20.92	22.39	110.96	89.87	112.51	128.75	64.76	-51.84	-89.41	-92.00	-84.06	-101.29	-141.26
32	DSM Rate (Ps/Kwh)													
33	Revenue from DSM (Rs. Crore)				-38.47	-95.66	-57.34	-37.32	10.02	17.01	15.86	28.46	21.82	24.63

Note:

- 1 \$ "Ex-Bus" word is additionally inserted.
- 2 # "Average" word is additionally inserted.
- 3 \$ "for 2004-09 & pre tax (admitted by CERC) for 2009-17" word is additional inserted
- 4 # Additional Row 24(e) inserted
- 5 DSM Revenue (-)Received / (+) Paid