

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

Annexure VI

Name of the Company:

NTPC Ltd.

Name of the Power Station:

Dadri Gas PP

(Rs. In Lakhs)

Sl. No.	Items	2008-09	2009-10	2010-11	2011-12	2012-13
1	Consumption of stores & spares	411.01	755.72	637.53	1091.65	557.01
2	Repair & Maintenance	864.08	2254.04	1102.97	1215.00	1191.23
3	Insurance	83.49	138.72	170.82	181.37	179.51
4	Security	24.92	31.88	31.28	39.04	40.06
5	Water Charges	22.39	22.99	23.50	69.38	87.78
6	Administrative Expenses					
6.1	Rent	0.00	0.00	0.00	0.00	0.00
6.2	Electricity charges	41.43	65.25	67.26	84.09	85.92
6.3	Travelling & Conveyance	79.69	79.54	95.09	117.30	127.06
6.4	Communication Expenses	40.33	37.89	34.78	28.61	28.78
6.5	Advertising	4.16	2.94	2.87	1.75	2.39
6.6	Foundation Laying & Inaugration	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	6.07	2.70	8.68	10.96	10.98
6.9	Filing fee	0.00	16.60	16.60	16.60	33.19
	Subtotal (Administrative Expenses)	171.68	204.92	225.28	259.29	288.33
7	Employee Cost					
7.1	- Salaries,Wages & Allowances	1448.29	1463.23	2232.56	1893.52	2274.89
7.2	- Staff Welfare expenses	187.48	210.39	215.22	231.76	281.78
7.3	- Incentive	82.63	84.79	98.87	87.69	89.57
7.4	- Expenditure on VRS	0.00	0.00	0.00	0.00	0.00
7.5	- Ex-gratia	0.00	26.78	28.59	30.42	31.72
7.6	- Performance Related Pay(PRP)	92.37	241.47	132.89	227.04	206.34
	Sub Total (Employee Cost)	1810.76	2026.66	2708.13	2470.43	2884.30
8	Loss of Store	0.00	0.00	0.00	0.00	0.00
9	Provisions	1.72	38.23	6.02	1.87	0.26
10	Prior Period Expenses	0.00	0.00	0.00	0.00	0.00
11	Corporate Office expenses allocation	2070.43	1880.67	2314.64	2182.51	2134.90
12	Others					
12.1	Rates & Taxes	1.16	4.22	2.07	3.02	4.10
12.2	Water cess	14.06	22.79	21.39	26.61	22.84
12.3	Training & recruitment expenses	43.80	19.31	46.22	27.13	43.17
12.4	Tender Expenses	55.59	68.29	41.82	41.78	17.63
12.5	Guest house expenses	36.37	35.85	34.06	31.43	26.47
12.6	Education expenses	71.73	87.45	37.16	44.64	36.88
12.7	Community Development Expenses	18.08	47.94	12.95	77.73	153.12
12.8	Ash utilisation expenses	0.00	0.00	0.00	0.00	0.00
12.9	Books & Periodicals	1.68	1.44	0.35	0.72	0.82
12.1	Professional Charges	6.10	4.27	7.30	5.37	3.48
12.11	Legal expenses	9.27	5.80	2.75	13.66	47.65
12.12	EDP Hire & other charges	15.18	18.08	9.39	8.50	6.39
12.13	Printing & Stationery	13.44	17.21	16.82	14.47	12.25
12.14	Misc and other Expenses	5405.14	142.45	806.63	363.85	392.52
	Sub Total (Others)	5691.60	475.10	1038.91	658.91	767.32
13	(Total 1 to 12)	11152.08	7828.93	8259.08	8169.46	8130.72
14	Revenue / Recoveries	19.17	20.28	19.01	22.65	22.52
15	Net Expenses	11132.91	7808.65	8240.07	8146.81	8108.20
16	Capital spares consumed	2392.48	1557.36	972.29	1721.61	1310.68
	<b>Total O&amp;M Cost</b>	<b>13525.39</b>	<b>9366.01</b>	<b>9212.36</b>	<b>9868.42</b>	<b>9418.88</b>
17	Expenditure of Capital nature as per accounting practice not claimed/ disallowed in capital cost	0.00	7.38	2.27	7.36	
	<b>Total O&amp;M Cost includng SI No. 17 above</b>	<b>13525.39</b>	<b>9373.39</b>	<b>9214.63</b>	<b>9875.78</b>	<b>9418.88</b>
	No. of Employee opting for VRS	0.00	0.00	0.00	0.00	0.00

Note:

- 1) Prior period expenses have been inculed in their natural head
- 2) Ex gratia has been included in PRP for the year 2008-09
- 3) Employee cost includes arrears
- 4) For 2012-13, data in respect of SI No.17 shall be submitted later

**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 2008-09 to 2012-2013

	Particulars	Units	2008-09	2009-10	2010-11	2011-12	2012-13	methodology
1	<b>Name of Company</b>		<b>NTPC Ltd.</b>					
2	<b>Name of Station</b>		<b>DADRI GAS</b>					
3	Installed Capacity and Configuration	MW	829.78					
4	Make of Turbine		Seimens AG Germany V94.2					
5	Rated Steam Parameters		PARAMETERS	TEMP deg c	PRESSURE BAR	FLOW Ton/Hr		
			HP STEAM	530	65	225.9		
			LP STEAM	206	6	46.764		
6	Average site ambient conditions		27 DEG CELCIUS DESIGNED					
7	Any other Site specific feature		-					
8	Fuels:							
8.1	Main / Primary Fuel:		Natural Gas/RLNG					
8.1.1	Annual Allocation or/ and Requirement	MnM <sup>3</sup> /MT	Allocation:As per Annexure attached Requirement: 1376.2 MMSCM					Requirement figures based on 85% PLF + 3% (APC), normative HR and assumed GCV
8.1.2	Sources of supply		ONGC/GAIL	ONGC/GAIL, RIL/NIKO/BPEAL, PLL/GAIL				
8.1.3	Transportation Distance of the station from the sources of supply	km	For APM/PMT/RLNG: GAIL Pipeline Zone 4, For KG D6 Gas: RGTIL EWPL Zone 5 + GAIL Pipeline Zone 4					
8.1.4	Mode of Transport		Pipeline					
8.1.5	Maximum Station capability to stock main/ primary fuel	MnM <sup>3</sup> /MT	NA					
8.2	Alternate Fuel:		HSD					
8.2.1	Annual Allocation or/ and Requirement	MnM <sup>3</sup> /MT/ KL	NA					
8.2.2	Sources of supply		IOCL/BPCL/HPCL					
8.2.3	Transportation Distance of the station from the sources of supply		IOCL (from Panipat 150 Kms), BPCL (from Numaligarh 2005 Kms), HPCL (From Mumbai 1200 Kms)					
8.2.4	Mode of Transport		Railway					
8.2.5	Maximum Station capability to stock secondary fuels	Kl	17000					
9	Cost of Spares:							
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	0	2366	1872	2444		2012-13 data to be submitted late
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)	0	0	0	0		
10	Generation							
10.1	Actual Gross Generation at generator terminals	MU	5287.6	5606.6	5399.8	5376.1	4417.6	
10.1.1	Total	MU	5287.6	5606.6	5399.8	5376.1	4417.6	
10.1.2	On Gas	MU	4006.3	4808.3	5361.5	5376.1	4414.3	
10.1.2	On HSD	MU	1281.4	798.3	38.3	0.0	3.3	
10.2	Actual Net Generation Ex-bus	MU	5153.9	5475.0	5271.2	5247.1	4311.6	
10.3	Scheduled Generation Ex-bus	MU	5080.3	5400.9	5216.0	5304.3	4407.7	
11	Average Declared Capacity (DC)	MW	716.4	725.3	774.7	763.1	786.2	
12	Actual Auxiliary Energy Consumption including colony consumption	MU	133.7	131.6	128.7	129.0	106.0	
13	Actual Energy supplied to Colony from the station	MU	0.0	0.0	0.0	0.0	0.0	

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<b>1</b>	<b>Name of Company</b>		<b>NTPC Ltd.</b>					
<b>2</b>	<b>Name of Station</b>		<b>DADRI GAS</b>					
14	Main / Primary Fuel:							
14.1	Consumption :	MCM/MT/ KI						
14.1.1	Natural Gas :APM Gas (including PMT & KG D6)	MCM	825.4	908.7	938.1	921.1	723.8	
	Non-APM Gas	MCM	0.0	0.0	0.0	0.0	0.0	
14.1.2	RLNG	MCM	19.8	115.1	205.5	200.5	197.7	
14.1.3								
14.2	Weighted Gross Calorific Value (GCV)	(kCal/Kg/KL/1000 SCM)						
14.2.1	Natural Gas (As fired)	(kCal/1000 SCF)	9405200	9306700	9265559	9504736	9600793	
14.2.2	RLNG (As fired)	(kCal/1000 SCF)	9405200	9306700	9265559	9504736	9614501	
14.2.3								
14.3	Weighted Average Price	(Rs/MT/KL/1000 SCM)						
14.3.1	APM Gas	(Rs/1000 SCM)	5462.6	5475.5	9611.4	11031.9	12613.5	
14.3.2	Non-APM Gas	(Rs/1000 SCM)						
14.3.3	RLNG	(Rs/1000 SCM)	19744.3	16291.0	18642.8	32170.9	37595.1	
14.3.4	Liquid Fuel	Rs/ KI						
14.4	Percentage of Declared Capacity	% and MW						
14.4.1	APM Gas (including PMT & KG D6)	%	53.74	58.44	65.49	67.01	54.54	
		MW	432.58	470.38	527.08	539.34	438.97	
14.4.2	Non-APM Gas	% & MW	0	0	0	0	0	
14.4.3	RLNG	%	1.53	8.71	25.81	27.26	42.22	
		MW	12.34	70.08	207.74	219.42	339.84	
14.4.4	Liquid Fuel	%	33.73	22.97	4.95	0.54	0.92	
14.4		MW	271.50	184.90	39.83	4.32	7.40	
15	Alternate Fuel:							
15.1	Consumption	KL	277187.8	178707.4	8442.0	2.8	759.1	
15.2	Weighted Average Gross Calorific value (As fired)	kCal/ ltr	9046	9048	9025	9040	9040	
15.3	Weighted Average Price (HSD)	(Rs Per KL)	31340.33	30191.22	35112.25	35112.25	35034.83	
15.4	Actual Average stock maintained	MT/ KL	15768.5	6617.6	7409.0	7406.1	6647.0	
16	Weighted average duration of outages:							
16.1	Scheduled Outages	MU	132.4	349.3	133.8	182.7	128.0	
16.2	Forced Outages	MU	117.1	97.2	2.4	20.7	13.4	
16.3	Number of trippings	No	32	23	8	24	12	
16.4	Number of start-ups :	No	76	64	46	72	83	
17	Cost of spares consumed	Rs Lakh	2739.2	2228.4	1555.4	2753.5	1799.7	
18	Average stock of spares	Rs Lakh	2595.8	3784.5	4137.7	3453.2	3551.4	
19	Nox and other particulate emission							
19.1	Design value (NOx)	ppm	150					
19.2	Actual emission (NOx)	ppm	31-129	40-132	29-139	31-126	29-140	
20	Number of employees deployed in O&M							
20.1	Executives		50	52	53	56	57	
20.2	Non Executives		68	66	65	64	63	

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<b>2</b>	<b>Name of Station</b>		<b>DADRI GAS</b>					
20.3	Corporate office		3205	3272	3298	3354	3170	Total Corporate Man Power
21	Man-MW ratio		0.14	0.14	0.14	0.15	0.15	Excluding Corporate Man Power

**Note:**

Daily Gas Allocation at stations is done from 06:00 to 06:00 Hrs, hence GCV and pricing is based on weighted average of 06:00 to 06:00 Hrs period

Daily Gas Consumption figures are based of 00:00 to 00:00 Hrs period.





