

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

Annexure VI

Name of the Company:

NTPC Ltd.

Name of the Power Station:

Faridabad GPS

(Rs. In Lakhs)

Sl. No.	Items	2008-09	2009-10	2010-11	2011-12	2012-13
1	Consumption of stores & spares	330.01	451.04	561.54	935.87	405.17
2	Repair & Maintenance	1076.43	473.53	684.21	926.41	756.76
3	Insurance	52.44	84.54	98.77	93.58	95.83
4	Security	216.93	324.88	372.86	440.72	514.58
5	Water Charges	252.29	168.69	151.53	157.06	146.77
6	Administrative Expenses					
6.1	Rent	0.00	0.00	0.00	0.00	0.00
6.2	Electricity charges	27.20	23.97	33.76	48.76	64.47
6.3	Travelling & Conveyance	61.25	71.10	89.53	98.74	110.85
6.4	Communication Expenses	24.16	33.46	32.26	30.40	37.33
6.5	Advertising	0.00	0.07	1.66	3.04	9.56
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	12.90	27.29	14.97	15.65	18.40
6.9	Filing fee	1.20	8.63	8.63	8.63	17.26
	Subtotal (Administrative Expenses)	126.71	164.52	180.81	205.22	257.88
7	Employee Cost					
7.1	- Salaries, Wages & Allowances	1624.80	1572.32	2149.77	2099.56	2521.26
7.2	- Staff Welfare expenses	250.83	260.11	266.02	235.35	270.66
7.3	- Incentive	34.65	82.19	77.70	82.55	102.24
7.4	- Expenditure on VRS	0.00	0.00	0.00	0.00	0.00
7.5	- Ex-gratia	0.00	24.64	26.51	25.67	24.53
7.6	- Performance Related Pay (PRP)	77.41	206.14	180.33	270.53	243.30
	Sub Total (Employee Cost)	1987.70	2145.41	2700.33	2713.67	3162.00
8	Loss of Store	0.00	0.00	0.00	0.00	0.00
9	Provisions	2.84	4.34	0.14	0.51	0.39
10	Prior Period Expenses	0.00	0.00	0.00	0.00	0.00
11	Corporate Office expenses allocation	1077.63	977.65	1202.38	1134.64	1110.20
12	Others					
12.1	Rates & Taxes	1.86	6.52	2.72	0.93	2.98
12.2	Water cess	8.96	10.86	6.49	6.35	5.84
12.3	Training & recruitment expenses	15.59	14.39	9.21	11.60	16.55
12.4	Tender Expenses	11.78	30.74	19.89	17.42	23.77
12.5	Guest house expenses	13.48	17.31	17.65	19.50	25.53
12.6	Education expenses	0.00	0.00	0.00	0.00	0.00
12.7	Community Development Expenses	15.32	19.57	14.80	26.88	60.31
12.8	Ash utilisation expenses	0.00	0.00	0.00	0.00	0.00
12.9	Books & Periodicals	0.57	0.81	0.52	0.98	0.43
12.1	Professional Charges	9.55	10.72	13.27	7.79	38.61
12.11	Legal expenses	5.31	6.33	4.37	7.59	5.00
12.12	EDP Hire & other charges	25.41	29.72	34.28	48.28	44.55
12.13	Printing & Stationery	8.22	13.30	11.75	13.88	9.84
12.14	Misc and other Expenses	190.23	77.83	314.01	1075.63	257.46
	Sub Total (Others)	306.28	238.10	448.96	1236.82	490.89
13	(Total 1 to 12)	5429.26	5032.70	6401.53	7844.50	6940.45
14	Revenue / Recoveries	10.41	8.19	9.49	10.38	10.48
15	Net Expenses	5418.85	5024.51	6392.04	7834.13	6929.98
16	Capital spares consumed	334.40	120.40	2931.01	3683.57	320.95
	<b>Total O&amp;M Cost</b>	<b>5753.25</b>	<b>5144.91</b>	<b>9323.05</b>	<b>11517.70</b>	<b>7250.93</b>
17	Expenditure of Capital nature as per accounting practice not claimed/ disallowed in capital cost	0.00	72.07	60.95	66.35	
	<b>Total O&amp;M Cost including SI No. 17 above</b>	<b>5753.25</b>	<b>5216.98</b>	<b>9384.00</b>	<b>11584.04</b>	<b>7250.93</b>
	No. of Employee opting for VRS	0.00	0.00	0.00	0.00	0.00

Note:

- 1) Prior period expenses have been included 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	Basis of information/ methodology
1	<b>Name of Company</b>		<b>NTPC Ltd</b>					
2	<b>Name of Station</b>		<b>Faridabad Gas Power Station</b>					
3	Installed Capacity and Configuration	MW	431.586 MW (2X137.758 MW GT+1X156.07 MW ST)					
4	Make of Turbine		Siemens/BHEL					
5	Rated Steam Parameters		NA					
6	Average site ambient conditions							
7	Any other Site specific feature							
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: 620 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:		Naphtha					
8.2.1	Annual Allocation or/ and Requirement	MnM <sup>3</sup> /MT/ KL	NA					
8.2.2	Sources of supply		IOCL					
8.2.3	Transportation Distance of the station from the sources of supply		Asauti Depot ( ~ 15 Kms), IOCL Panipat (~ 150 Kms)					
8.2.4	Mode of Transport		Pipeline/Road					
8.2.5	Maximum Station capability to stock secondary fuels	Kl	16000					
9	Cost of Spares:							
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	319	338	354	461		2012-13 data to be submitted later
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							
10.1.1	Total	MU	2380.26	3211.93	3155.41	3067.73	2402.87	
10.1.2	On Gas	MU	2050.30	2926.52	3147.88	3067.35	2402.87	
10.1.2	On Naptha or any other fuel	MU	329.96	285.41	7.53	0.38	0.00	
10.2	Actual Net Generation Ex-bus	MU	2317.94	3143.33	3087.51	3002.82	1608.49	
10.3	Scheduled Generation Ex-bus	MU	2285.52	3104.39	3060.88	3037.51	1628.69	
11	Average Declared Capacity (DC)	MW	304.05	389.96	376.14	376.19	382.80	
12	Actual Auxiliary Energy Consumption including colony consumption	MU	59.77	74.36	73.96	70.32	60.98	
13	Actual Energy supplied to Colony from the station	MU	1.28	1.53	1.53	1.50	1.63	
14	Main / Primary Fuel:							
14.1	Consumption :	MCM	430.88	603.63	655.67	654.02	522.52	
14.1.1	Natural Gas :APM Gas (including PMT & KG D6)	MCM	414.49	551.76	499.98	367.82	316.25	
	Non-APM Gas	MCM						

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<b>2</b>	<b>Name of Station</b>		<b>Faridabad Gas Power Station</b>					
14.1.2	RLNG	MCM	16.39	51.87	155.69	286.20	206.26	
14.1.3	Liquid Fuel	KL						
14.2	Weighted Gross Calorific Value (GCV)	(kCal/SCM)						
14.2.1	Natural Gas (As fired)	(kCal/SCM)	9390.83	9312.72	9281.78	9096.49	9142.89	
14.2.2	RLNG (As fired)	(kCal/SCM)	9390.83	9312.72	9281.78	9096.49	9142.89	
14.2.3	Liquid Fuel (As fired)	(kCal/KL)						
14.3	Weighted Average Price	(Rs/MT/KL/1000 SCM)						
14.3.1	APM Gas	(RsPer 1000 SCM)	4416.5	4492.2	8717.2	9851.9	10660.7	
14.3.2	Non-APM Gas	(RsPer 1000 SCM)						
14.3.3	RLNG	(RsPer 1000 SCM)	33234.0	13018.9	15746.7	21238.0	28624.1	
14.3.4	Liquid Fuel	(Rs Per KL)	32954.5	26713.6	30514.2	30718.2	30718.2	
14.4	Percentage of Declared Capacity	% and MW	72.63 % / 304.05 MW	93.15 % / 389.96 MW	89.95 % / 376.14 MW	89.86 % / 376.19 MW	91.44 % / 382.80 MW	
14.4.1	APM Gas (including PMT & KG D6)	% & MW	72.69 % / 221.01 MW	75.55 % / 294.61 MW	70.83 % / 266.42 MW	51.51 % / 193.77 MW	44.06 % / 168.66 MW	
14.4.2	Non-APM Gas	% & MW						
14.4.3	RLNG	% & MW	1.73 % / 5.26 MW	8.72 % / 34.00 MW	27.40 % / 103.06 MW	48.23 % / 181.44 MW	55.83 % / 213.71 MW	
14.4.4	Liquid Fuel	% & MW	25.58 % / 77.77 MW	15.73 % / 61.34 MW	1.77 % / 6.66 MW	0.26 % / 0.98 MW	0.11 % / 0.42 MW	
14.4	Actual Average stock maintained	KL	12532	9255	10079	9989	9934	
15	Alternate Fuel:							
15.1	Consumption	KL	80903	68042	1801	90	0	
15.2	Weighted Average Gross Calorific value (As fired)	kCal/ ltr	8063.52	8034.15	8164.07	8257.63		
15.3	Weighted Average Price							
15.4	Actual Average stock maintained	KL	12532	9255	10079	9989	9934	
16	Weighted average duration of outages :							
16.1	Scheduled Outages	MU	77.39	26.4	114.2	239.65	119.47	
16.2	Forced Outages	MU	308.2	2.97	9.38	4.34	88.38	
16.3	Number of trippings	No	21	8	13	13	21	
16.4	Number of start-ups :	No	31	13	19	34	47	
17	Cost of spares consumed	Rs Lakh	602.6	518.4	3434.7	4532.8	666.7	
18	Average stock of spares	Rs Lakh	1659.6	2021.8	2447.1	2134.3	2210.0	
19	Nox and other particulate emission							
19.1	Design value (NOx)	ppm	150					
19.2	Actual emission (NOx)	ppm	22-39	26-38	39-53	18-56	29-49	
20	Number of employees deployed in O&M							
20.1	Executives		90	96	105	114	111	
20.2	Non Executives		46	50	48	46	42	
20.3	Corporate office		3205	3272	3298	3354	3170	Total Corporate Man Power
21	Man-MW ratio		0.32	0.34	0.36	0.37	0.36	Excluding Corporate Man Power

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<b>2</b>	<b>Name of Station</b>		<b>Faridabad Gas Power Station</b>					

**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.





