	DETAILS OF OPERATION AND MAINTENANCE EXPEN Name of the Company:	Annexure VI				
	Name of the Power Station:	Ramagundan	n STPS		(Rs. In Lakh	s)
No.	Items	2008-09	2009-10	2010-11		2012
	Consumption of stores & spares	5697.32	4786.65	6011.15		9521
	Repair & Maintenance	5323.00	6391.00	7190.96		11415
	Insurance	425.75	698.79	771.38		803
	Security	627.79	1328.05	1385.42	1439.67	1822
	Water Charges	1193.19	850.21	1182.22	948.03	1392
	Administrative Expenses				0.0.00	2001
	Rent	0.00	0.00	0.00	0.00	0
	Electricity charges	290.84	304.61	308.98		371
	Travelling & Conveyance	631.84	625.46	703.84	766.70	845
	Communication Expenses	77.45	89.27	109.81	132.73	128
	Advertising	5.74	5.39	7.46	11.02	7
	Foundation Laying & Inaugration	0.00	0.00	0.00	0.00	0
	Donation	0.00	0.00	0.00	0.00	0
	Entertainment	38.93	27.11	37.58		32
	Filing fee	0.00	52.00	52.00		104
	Subtotal (Administrative Expenses)	1044.80	1103.84	1219.67	1338.06	1489
		1044.80	1103.84	1219.07	1338.00	1489
	Employee Cost	14007 42	12770.02	47007.47	45426.25	10417
	- Salaries,Wages & Allowances	14867.12	13770.03	17087.17		18417
	- Staff Welfare expenses	2376.66	1894.57	1547.63	1522.75	2026
7.3		780.01	774.97	776.19	764.56	730
	- Expenditure on VRS	0.00	0.00	0.00	0.00	0
	- Ex-gratia	0.00	437.66	462.86		457
	- Performance Related Pay(PRP)	673.43	1152.13	896.21	1362.29	1429
	Sub Total (Employee Cost)	18697.22	18029.36	20770.06		23061
	Loss of Store	2.36	0.00	0.00		1
	Provisions	121.64	104.38	39.63	20.28	39
	Prior Period Expenses	0.00	0.00	0.00		0
	Corporate Office expenses allocation	6485.60	5888.05	7250.93	6836.86	6690
	Others					
	Rates & Taxes	92.15	111.07	154.10		126
	Water cess	142.90	102.62	138.16		112
12.3	Training & recruitment expenses	63.72	70.25	154.35	82.84	133
12.4	Tender Expenses	92.30	119.34	99.56	121.84	149
12.5	Guest house expenses	40.07	44.47	24.89	36.33	22
12.6	Education expenses	110.52	114.37	165.24	27.47	16
12.7	Community Development Expenses	116.77	109.89	181.70	323.83	698
	Ash utilisation expenses	83.77	41.92	50.54	132.65	71
12.9	Books & Periodicals	3.56	3.66	3.46	7.59	2
12.1	Professional Charges	33.79	32.28	29.34	47.01	86
12.11	Legal expenses	29.44	22.95	4.91	7.12	16
	EDP Hire & other charges	68.64	107.70	143.18	87.01	82
	Printing & Stationery	52.33	51.54	61.56		39
	Misc and other Expenses	311.01	294.52	1704.60		1298
	Sub Total (Others)	1240.97	1226.58	2915.59		2855
	(Total 1 to 12)	40859.64	40406.92	48737.01	48882.78	59094
	Revenue / Recoveries	65.62	68.39	66.01	69.83	84
	Net Expenses	40794.02	40338.53	48671.00	48812.95	59009
	Capital spares consumed	769.00	1532.64	2035.00	796.07	1571
10	Total O&M Cost	41563.02	41871.17	50706.00		60581
	Expenditure of Capital nature as per accounting	-+1505.02	-10/1.1/	30700.00		
17	practice not claimed/ disallowed in capital cost	172.00	2722 00	1777 00	3099.00	
		173.00	3723.00	1222.00		60504
	Total O&M Cost incluidng SI No. 17 above	41736.02	45594.17	51928.00	52708.02	60581

Note:

1) Prior period expenses have been inculed in their natural head

2) Ex gratia has been incuded 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

Pro-forma furnishing Actual annual performance/operational data for the coal /lignite 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	Name of Company				NTPC Ltd.	· · · · · · · · · · · · · · · · · · ·	•	
2	Name of Station		Ra	magundam	Super Therm	tion		
3	Installed Capacity and Configuration	MW			2600 MW			
	Rated Steam Parameters (Also state the type of Steam turbine							
4	and Boiler							
5	Type of BFP			Electrical	Driven and S	team Driven		
	Circulating Water System				Closed cycle	9		
7	Any other Site specific feature							
8	Fuels:							
8.1	Main Fuel:				Coal			
			Annual alloca	ation through	FSA (Stg. I &	II) =10.20MM	Г, Stg. III- 1.0	Requirement has been worked out for
8.1.1	Annual Allocation or/ and Requirement	MT			t =13.16 MM		-	90% PLF
			FSA sig	ned with Sing	gareni collieri	es Co. Limited	d(SCCL),	
	Sources of supply/ procurement along with contracted quantity					& South Easter		
8.1.2	and grade of coal		Annual cont	racted quantit	ty of 11.2MM	Г (FSA ; SCCL	- 10.20 MMT,	
						0.5 MMT.)		
			Grade of coa	al as per FSA	is SCCL: B -	G , SECL all	grades , MCL:	
	FSA	MT	13.3	10.9	10.8	10.7	10.7	
	Imported	MT	0.6	0.7	0.5	0.4	0.3	
	Bi- Lateral MOU	MT	0.0	1.5	1.0	1.8	2.2	
	Spot Market/e auction	MT	0.0	0.0	0.0	0.0	0.0	
	Transportation Distance of the station from the sources of supply	km		SCCL- 22	2, MCL -1099			
	Mode of Transport				MGR/IR			
	Maximum Station capability to stock main fuel	Days & MT		1	5 days & 6.0			
8.2	Secondary Fuel:							
	Annual Requirement	klitre			20500			
8.2.2	Sources of supply		HFO : Tondia	arper Port Te	rminal, Ennor	e High Road, (CHENNAI-1	
8.2.3	Transportation Distance of the station from the sources of supply	Km			700 km			
	Mode of Transport				Rail/ Road			
8.2.5	Maximum Station capability to stock secondary fuels	klitre			HFO: 15500	KL		
9	Cost of Spares:							
	Cost of Spares capitalized in the books of accounts (St-1&2)	(Rs. Lakh)	1626	2430				2012-13 data to be submitted later
	Cost of Spares capitalized in the books of accounts (St-3)	(Rs. Lakh)	4	96	162	2 362		
9.2	1&2)	(Rs. Lakh)	0	C) (0 0		
	3)	(Rs. Lakh)	0	C) (0 C		
10	Generation							
10.1	Actual Gross Generation at generator terminals (Commercial Satg	e wise)						
	Stage-1 &2	MU	17367.2	17162.6	16516.2	2 17155.9	16982.4	4
10.1.2	Stage-3	MU	4145.5	4432.1	4043.6			3
10.2	Actual Net Generation Ex-bus	MU						
10.2.1	Stage-1 &2	MU	16396.9	16215.9	15601.9	9 16155.0	15995.8	3
	Stage-3	MU	3895.2	4166.9	3795.3	3 3826.4	3543.5	
10.3	Scheduled Generation Ex-bus							Based on REA

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	Particulars	Units	2008-09	2009-10	2010-11	2011-12	2012-13	Basis of information/ methodology
1	Name of Company		NTPC Ltd.,					
2	Name of Station		Ra	amagundam S				
10.3.1	Stage-1&2	MU	16267.2	16065.6	15462.6	16050.5	15926.8	3
10.3.2	Stage-3	MU	3863.0	4134.6	3770.5	3794.1	3529.1	
11	Average Declared Capacity (DC)							Based on REA
11.1	Stage-1 &2	MW	1858.0	1853.7	1828.7	1843.4	1820.1	
11.2	Stage-3	MW	441.6	474.4	444.4	445.2	406.9	
12	Actual Auxiliary Energy Consumption including colony							
12.1	Stage-1&2	MU	1036.2	1022.4	990.0	1074.5	1056.7	7
	Stage-3	MU	192.2	202.1	191.4	217.1	189.2	2
	Actual Energy supplied to Colony from the station	MU	23.00	22.29	20.32	20.58	20.47	7
	Main Fuel:							
	Consumption :		40040050	10007010			4070007	
14.1.1	Domestic Coal (Linked miine/ Other mines/e-auction/spot)	MT	12816256	12287618	11866265	12433090	12789251	
14.1.2	Imported Coal*	МТ	579000	706052	494612	366524	338012	2
	Gross Calorific Value (GCV):							
14.2.1	Domestic Coal (As received)	kCal/kg						
	(As fired)	kCal/kg						
	Imported Coal (As received)	kCal/kg	5950	6250	6255	6074	6244	1
	Spot market/e-auction coal (As received)	kCal/kg						
	Weighted Average Gross Calorific value (As received)	kCal/kg						
	Weighted Average Gross Calorific value (As fired)	kCal/kg	3807	3939	3942	3936	3749)
	Price of Coal:							
	Weighted Average price of Domestic coal	(Rs/MT)	1595.7	1820.3	2089.3	2262.0	2471.8	
	Weighted Average price of imported coal	(Rs/MT)	6292.0	5695.8	6627.4	8319.7	6608.8	3
	Weighted Average price of spot market/ e-auction coal	(Rs/MT)						
	Weighted Average price of all the Coals (as received)	(Rs/MT)	1798.5	2030.9	2272.1	2435.4	2578.3	3
	Blending:	% and MT						
	Blending ratio of imported coal with domestic coal	%	4.32%	5.43%	4.00%	2.86%	2.57%	Imported/ Total Coal
	Proportion of e-Auction coal in the blending							
	Actual Average stock maintained	MT	251908	503613	380535	219931	222748	Average of monthly closing stock
14.5	Actual Transit & Handling Losses for coal/Lignite	%						
14.5.1	Pit- Head Station							
14.5.1.1	Transit loss from linked mines	MT	0.22%	0.18%	0.18%	0.11%	0.17%	5
	Transit loss from non-linked mines including e-auction coal mines.							
		MT	0.14%	0.11%	0.04%	0.00%	0.04%	5
	Non-Pit Head station		T					
	Transit loss from linked mines		1					1
	Transit loss from non-linked mines including e-auction coal mines.		1					
	Transit loss of imported coal		1					
	Secondary Fuel Oil :		1					
	Consumption	klitre	3486.5	2155.6	2680.4	2497.5	4575.5	5
	Weighted Average Gross Calorific value (As received)	kCal/kg(litre)	10073.4	9962.7	9803.6	9933.5		

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	Particulars	Units	2008-09	2009-10	2010-11	2011-12	2012-13	Basis of information/ methodology
1	Name of Company		NTPC Ltd.,					
2	Name of Station		Ra	amagundam S				
15.3	Weighted Average Price HFO	(Rs Per MT or K	32365.2			31753.1	37900.1	
15.3	Weighted Average Price HSD	(Rs Per MT or K	35952.9	36206.3	38519.7	41235.7	44508.0	
	Actual Average stock maintained	klitre	1755.2	3947.3	3870.3	4867.6	4894.6	Average of monthly closing stock
	Weighted average duration of outages							
	o	MU	1109.2	605.8	1430.3	650.9	1391.6	
	<u> </u>	MU	364.4	840.4		351.7	1692.3	
		No	46	29	35	32	51	
		No	46	29	35	32	51	
		No	5	4	6	6	5	
		No	26	18		12		
		No	15	7	12	14	21	
	NOx , SOx ,and other particulate emission in :	2						
17.1	Design value of emission- NOx	mg/Nm ³			NA			No norm; not considered in design
	Design value of emission- SOx	mg/Nm ³			NA			No norm; not considered in design
	Design value of emission- SPM (St-I)	mg/Nm ³			300			
	Design value of emission- SPM (St-II)	mg/Nm ³			50			
	Design value of emission- SPM (St-III)	mg/Nm ³	50					
17.2	Actual emission (SPM)-St-I	mg/Nm ³	41-113	42-114	82-108	82-103	82-102	
	Actual emission (SOx)	mg/Nm ³	1028-1298	1065-1329	1225-1414	1202-1398	1231-1401	
17.4		mg/Nm ³	424-562	447-550	457-525	437-516	435-500	
	Actual emission (SPM)- St-II	mg/Nm ³	85-105	40-110	84-111	101-110	83-110	
	Actual emission (SOx)	mg/Nm ³						
17.4		mg/Nm ³						
	Actual emission (SPM)- St-III	mg/Nm ³	60-80	65-90	60-76	60-85	70-86	
		mg/Nm ³	00.00	00.00	0010	00.00		
		mg/Nm ³						
	Actual emission (NOx)							
17.2	Actual emission	mg/Nm ³						
19	Detail of Ash utilization % of fly ash produced	Quantity Produced	45.47	42.8	40.66	42.94	45.21	
		(Lakh MT)						
19.1	Conversion of value added product(Issue to Cement, RMC & Brick /block industries)	%	46.67	52.73	49.21	37.67	41.60	
		%	0.00	0.00	0.00	0.34	1.46	
19.3		%	0.34	0.00		0.00	0.00	
10 /	Used in plant site in one or other form or used in some other site (Mine filling & Ash dyke raising)	%	5.66		0.06			
	Any other use Please specify (Agriculture Bottom ash cover etc.)	Qty. (Lakh M T) and usage	6.58	6.07	6.08	7.94	7.16	
20		Rs Lakhs	5926.5	5258.3	6881.8	6209.9	9953.5	
		Rs Lakhs	15041.6		12765.1	13750.8	14856.0	

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	Particulars	Units	2008-09	2009-10	2010-11	2011-12	2012-13	Basis of information/ methodology
1	Name of Company				NTPC Ltd.,	1		
2	Name of Station		R	amagundam 🕄	Super Therm	al Power Sta	tion	
22	Number of employees deployed in O&M							
22.1	Executives		538	3 527	534	528	530	
22.2	Non Executives		1055	5 1019	976	928	880	
22.3	Corporate office		3205	5 3272	3298	3354	3170	Total Corporate Man Power
23	Man-MW ratio		0.6	0.59	0.58	0.56	0.54	Excluding Corporate Man Power

Note:

From Oct/ Nov 2012 onwards payment to coal companies is being made on the basis of GCV as received at plant boundary. As per FSA, payment is to be made as per the quality assessed at mine end. Accordingly substantial amount billed by Coal companies are yet to be paid. Prices indicated above reflect the payment being made to Coal Companies.

GCV of Domestic Coal as received is being measured only from Oct/Nov 2012