Annexure VI

Name of the Company: NTPC Ltd.

Name of the Power Station: Rihand STPS (Rs. In Lakhs) Sl. No. 2009-10 2010-11 2012-13 Items 2011-12 2008-09 1 Consumption of stores & spares 5553.52 6404.64 4669.67 5762.97 7688.62 2 Repair & Maintenance 3252.41 3353.35 5049.21 4213.74 7935.81 3 Insurance 395.89 644.97 692.97 733.18 781.64 4 Security 866.10 983.07 886.19 1112.04 1209.15 5 Water Charges 711.44 764.41 765.47 765.41 835.61 6 Administrative Expenses 0.00 6.1 Rent 0.00 0.00 0.00 0.00 Electricity charges 199.57 131.27 213.81 243.95 191.16 6.2 6.3 Travelling & Conveyance 502.30 481.13 476.11 555.84 593.27 6.4 Communication Expenses 87.87 89.16 90.50 111.45 114.41 8.42 12.32 4.57 7.62 5.51 6.5 Advertising 6.6 Foundation Laying & Inaugration 0.00 0.00 0.00 0.00 0.00 6.7 0.00 0.00 0.00 0.00 0.00 Donation 38.06 6.8 Entertainment 29.71 29.33 26.60 28.76 6.9 Filing fee 3.76 40.00 40.00 40.00 93.81 987.63 1036.22 Subtotal (Administrative Expenses) 831.63 783.22 851.57 **Employee Cost** 7987.49 9862.99 9125.74 10870.16 12076.90 - Salaries, Wages & Allowances 7.2 - Staff Welfare expenses 1241.84 927.49 857.94 1071.01 1266.80 495.81 508.43 410.72 469.18 452.09 7.3 - Incentive 7.4 - Expenditure on VRS 0.00 0.00 0.00 0.00 0.00 0.00 230.76 245.65 246.21 243.35 7.5 - Ex-gratia 7.6 - Performance Related Pay(PRP) 590.41 688.93 663.11 1053.73 1008.82 Sub Total (Employee Cost) 11453.79 10343.11 13047.58 12703.12 15047.96 8 Loss of Store 0.88 0.00 0.37 2.03 1.25 9 Provisions 39.96 27.11 17.26 21.25 6.02 0.00 0.00 0.00 0.00 0.00 10 Prior Period Expenses 11 Corporate Office expenses allocation 4988.90 4527.94 5576.26 5256.63 5318.15 12 Others 12.1 Rates & Taxes 9.74 7.69 13.32 12.78 6.86 12.2 Water cess 283.89 301.45 266.74 283.08 248.45 12.3 Training & recruitment expenses 108.54 36.77 108.27 88.70 89.11 12.4 Tender Expenses 158.67 191.87 108.45 102.02 68.87 Guest house expenses 36.89 48.63 43.73 51.62 51.57 12.5 188.09 257.87 276.94 144.98 114.71 12.6 Education expenses 12.7 Community Development Expenses 88.10 73.68 117.86 293.76 355.20 12.8 Ash utilisation expenses 26.21 74.25 0.00 0.00 0.74 9.51 2.38 2.73 12.9 Books & Periodicals 1.33 1.07 43.60 29.84 20.40 66.36 12.1 Professional Charges 52.67 4.95 11.17 10.35 12.11 Legal expenses 5.85 6.51 12.12 EDP Hire & other charges 33.99 49.55 44.96 48.24 28.90 29.53 33.25 34.01 47.28 36.77 12.13 Printing & Stationery 12.14 Misc and other Expenses 513.56 667.50 1484.86 1049.77 1010.29 2090.93 Sub Total (Others) 1536.17 1801.46 2537.87 2154.85 13 (Total 1 to 12) 29630.68 29633.28 34094.42 33712.87 41951.34 14 Revenue / Recoveries 83.34 81.49 87.94 132.15 135.76 15 **Net Expenses** 29547.34 29551.79 34006.48 33580.72 41815.58 16 Capital spares consumed 459.00 377.85 529.16 731.53 345.00 30006.34 29929.64 34535.64 34312.25 42160.58 Total O&M Cost Expenditure of Capital nature as per accounting practice not claimed/ disallowed in capital cost 30.88 1595.20 2270.09 699.03 Total O&M Cost incluidng SI No. 17 above 30037.22 31524.84 36805.73 35011.28 42160.58 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 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 LIMITED			
2	Name of Station		R	IHAND SUPER	R THERMAL PO			
3	Installed Capacity and Configuration	MW			2500			
	Rated Steam Parameters (Also state the type of Steam		Stage 1 (2x50)	DMW) NEI Des	ign & Stage 2 &			
4	turbine and Boiler				ritical pressure		0 /	
5	Type of BFP		Electric	al Driven for St	age-I & Steam	Driven for Stag	ge-2 &3	
6	Circulating Water System				PEN, St-2 & 3 C			
7	Any other Site specific feature			CH	IP CONV. SYS	TEM		
8	Fuels:							
8.1	Main Fuel:				Coal			
8.1.1	Annual Allocation or/ and Requirement	MT	Annual allocation MMT (1000 M)	W)		Requirement has been worked out for 90% PLF		
	Sources of supply/ procurement along with contracted				Coal fields Limi			
8.1.2	quantity and grade of coal		Annı	ual contracted	quantity of 10.5			
				Grade of	coal as per FS			
		MT	10.66	10.54	9.89	10.38	10.99	
8.1.2.2		MT	0.39	0.35	0.50	0.43	0.10	
8.1.2.3		MT	0	0	0 NCL-40	0	0	
8.1.3	Transportation Distance of the station from the sources	km						
8.1.4	Mode of Transport				MGR			
8.1.5	Maximum Station capability to stock main fuel	Days & MT		20	days & 8.9 Lac			
8.2	Secondary Fuel:				FO + LDO			
8.2.1		klitre			19710			
8.2.2	Sources of supply				IOCL			
	Transportation Distance of the station from the sources							
8.2.3	of supply	Km		A	Around 1000 Kr			
8.2.4	Mode of Transport				Rail/ Road			
8.2.5	Maximum Station capability to stock secondary fuels	klitre			22750			
9	Cost of Spares:							
	Cost of Spares capitalized in the books of accounts (St-							
9.1		(Rs. Lakh)	353	149	423	3916		2012-13 data to be submitted later
	Cost of Spares capitalized in the books of accounts (St-							
9.1		(Rs. Lakh)	0	139	347	407		2012-13 data to be submitted later
	Cost of spares included in capital cost for the purpose							
9.2		(Rs. Lakh)	0	0	0	0		
	Cost of spares included in capital cost for the purpose							
9.2	of tariff (St-II)	(Rs. Lakh)	0	0	0	0		
10	Generation							
	Actual Gross Generation at generator terminals							
10.1		MU	17035.4	16743.4	16318.8	16183.3	16417.7	
10.1.1		MU	8275.83	8771.00	7760.15	8241.25	6950.09	
10.1.2	Stage-2	MU	8759.52	7972.00	8558.63	7942.10	8511.88	

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

to 2012-20				_				
		MU					955.70	
		MU	15945.76	15636.00	15211.01	15060.13	15252.85	
	Ŭ	MU	7656.01	8100.00	7143.77	7585.62	6381.65	
	U U	MU	8289.75	7536.00	8067.24	7474.51	7981.99	
	O .	MU					889.20	
		MU	15842.30	15554.00	14920.65	14882.08		Based on REA
	<u>v</u>	MU	7607.01	8061.55	7015.15	7499.27	6368.13	
	U U	MU	8235.29	7492.45	7905.50	7382.81	7953.39	
	Ŭ	MU					895.20	
		MW	1813.89	1775.57	1772.66	1755.99		Based on REA
	Ŭ	MW	870.82	920.31	833.24	891.53	750.79	
	Stage-2	MW	943.07	855.25	939.42	864.46	945.09	
11.3	3	MW					106.73	
ŀ	Actual Auxiliary Energy Consumption including colony							
	•	MU	1085.00	1100.00	1079.37	1061.02	1088.39	
	<u> </u>	MU	617.00	665.00	576.69	607.83	514.74	
		MU	468.00	435.00	502.69	453.19	507.10	
		MU					66.55	
	0, 11	MU	16.98	14.01	15.53	16.21	16.55	
14	Main Fuel:							
14.1	Consumption:							
14.1.1	Domestic Coal (Linked miine/ Other mines/e-auction/sp	MT	10573775	10490400	9940210	10393517	11167481	
		MT	322476	399956	455424	473834	85759	
14.2	Gross Calorific Value (GCV):							
14.2.1	Domestic Coal (As received)	kCal/kg						
	(As fired)	kCal/kg						
14.2.2	Imported Coal (As received)	kCal/kg	5463	5772	5611	5392.7	5682.6	
14.2.3	Spot market/e-auction coal (As received)	kCal/kg						
14.2.4	Weighted Average Gross Calorific value (As received)	kCal/kg						
14.2.5	Weighted Average Gross Calorific value (As fired)	kCal/kg	3667	3605	3680	3496	3431	
	Price of Coal:							
14.3.1	Weighted Average price of Domestic coal	(Rs/MT)	1353.1	1403.7	1541.1	1599.6	1452.9	
14.3.2	Weighted Average price of imported coal	(Rs/MT)	7416.6	6715.9	8656.5	9552.1	7869.5	
	Weighted Average price of spot market/ e-auction coal	(Rs/MT)	-	-	-	-	-	
14.3.4	Weighted Average price of all the Coals (as received)	(Rs/MT)	1565.3	1600.2	1934.4	2128.7	1550.6	
		,						
		% and MT	0.000/	0.070/	4.000/	4.000/	0.700/	Imported / Total Coal Coarsins the
	Blending ratio of imported coal with domestic coal	%	2.96%	3.67%	4.38%	4.36%	0.76%	Imported / Total Coal Consumption
	Proportion of e-Auction coal in the blending	NAT	004040	500544	050770	400000	000004	Assessed as anti-live standard
		MT	204010	539544	359779	402036	338291	Average of monthly closing stock
	Actual Transit & Handling Losses for coal/Lignite	%			+			
	Pit- Head Station	0/	0.4007	0.4007	0.4007	0.400/	0.4407	
14.5.1.1	Transit loss from linked mines	%	0.16%	0.10%	0.10%	0.10%	0.11%	
	Transit loss from non-linked mines including e-auction							
14.5.1.2	coal mines.	%						

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

14540		0/	0.000/	0.040/	0.040/	2.2221	0.0407	T
	Transit loss of imported coal	%	0.06%	0.01%	0.01%	0.00%	0.01%	
	Non-Pit Head station							
14.5.2.1	Transit loss from linked mines							
44500	Transit loss from non-linked mines including e-auction							
	coal mines.							
	Transit loss of imported coal							
15	Secondary Fuel Oil :	I. Pto.	0740.0	0.407.5	00.40.4	1000.0	0040.4	
15.1	Consumption	k litre	2719.3	3407.5	3346.1	4066.9	8312.1	
15.2		kCal/kg(litre)	9650	9650	9650	9817	9742	
15.3	Weighted Average Price- HFO	Rs/ KI	38732	33510	36948	44190	52740	
	Weighted Average Price- LDO	Rs/ KI	48057	44028	50518	47574	63666	
15.4	Actual Average stock maintained	k litre	2269	2088	2841	3085	5370	Average of monthly closing stock
16	Weighted average duration of outages							
16.1	Scheduled Outages	MU	443.5	810.6	951.0	753.2	996.5	
16.2	Forced Outages	MU	325.2	545.6	365.8	347.3	835.0	
16.3	Number of trippings	No	24	31	28	29	68	
16.4	Number of start-ups :	No	24	31	28	29	68	
	Cold Start-up	No	8	18	13	11	17	
	Warm Start-up	No	7	4	3	11	21	
	Hot start-up	No	9	9	12	7	30	
17	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			100			
	Design value of emission- SPM (St-II)	mg/Nm ³			50			
17.2	Actual emission (SPM)-St-I	mg/Nm ³	110-130	120-141	123-140	105-135	110-142	
17.3	Actual emission (SOx)	mg/Nm ³	550-620	540-670	570-640	531-709	618-720	
17.4	Actual emission (NOx)	mg/Nm ³	272-318	281-340	242-357	191-346	301-382	
			40-60	50-90	54-94	62-98	56-92	
17.2	Actual emission (SPM)-St-II	mg/Nm ³	40-00	30-90	54-94	02-90	50-92	
17.3	Actual emission (SOx)	mg/Nm ³						
17.4	Actual emission (NOx)	mg/Nm ³						
19	Detail of Ash utilization % of fly ash produced	Quantity Produced	28.76	28.56	29.05	31.19	34.89	
		(Lakh MT)						
19.1	Conversion of value added product(Issue to Cement, RMC & Brick /block industries)	%	15.85	12.95	2.06	2.69	3.12	
19.2	For making roads & embarkment	%	0.00	0.00	0.00	0.00	0.07	
19.3	Land filling	%	40.99	60.54	58.45	48.59	38.33	
19.4	Used in plant site in one or other form or used in some other site (Mine filling & Ash dyke raising)	%	10.36	0.04	0.00	9.39	14.97	
19.5	Any other use , Please specify (Agriculture, Bottom ash cover etc.)	Qty. (Lakh MT) and usage	0.00	0.00	0.00	0.00	0.00	

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

20	Cost of spares actually consumed	Rs Lakh	6276.5	5909.8	3891.4	5449.7	6088.8	
21	Average stock of spares	Rs Lakh	14375.3	14321.7	13461.6	13830.8	14826.1	
22	Number of employees deployed in O&M							
22.1	Executives		404	407	437	458	491	
22.2	Non Executives		589	556	528	519	494	
22.3	Corporate office		3205	3272	3298	3354	3170	Total Corporate Man Power
23	Man-MW ratio		0.5	0.48	0.48	0.49	0.39	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