Name of the Company: NTPC Ltd.

Name of the Power Station: Sipat (Rs. In Lakhs)

	Name of the Power Station:	Sipat			(Rs. In Lakhs)	
Sl. No.	Items	2008-09	2009-10	2010-11	2011-12	2012-13
1	Consumption of stores & spares	822.23	2260.68	2915.05	3500.09	5995.31
2	Repair & Maintenance	295.28	1209.05	2030.23	3057.51	4603.92
3	Insurance	98.31	408.61	452.66	561.68	840.15
4	Security	114.76	1036.10	856.60	946.07	1538.46
	Water Charges	463.62	1359.40	2418.00	3832.50	9187.59
6	Administrative Expenses					
	Rent	0.00	0.00	0.00	0.00	0.00
	Electricity charges	13.06	157.31	121.98	125.64	167.64
	Travelling & Conveyance	178.36	366.79	445.00	458.19	664.59
	Communication Expenses	68.06	78.14	84.50	94.70	118.46
	Advertising	4.20	8.52	12.67	12.93	24.29
	Foundation Laying & Inaugration	0.00	0.00	0.00	0.00	0.00
	Donation	0.00	0.00	0.00	0.00	0.00
	Entertainment	21.66	35.89	29.31	45.32	49.88
	Filing fee	0.00	20.00	20.00	20.00	112.60
0.5	Subtotal (Administrative Expenses)	285.35	666.65	713.46	756.78	1137.46
7	Employee Cost	203.33	000.03	713.40	730.70	1137.40
	- Salaries, Wages & Allowances	2981.17	6366.59	6799.55	7409.69	11214.15
	- Staff Welfare expenses	448.29	667.00	889.00	724.39	1074.23
7.2		113.94	289.07	294.83	360.07	408.37
7.3	- Expenditure on VRS	0.00	0.00	0.00	0.00	0.00
	- Ex-gratia	0.00	88.72	101.64	131.35	160.34
	9	262.38		588.73		952.33
7.0	- Performance Related Pay(PRP)		677.95		1025.60	
0	Sub Total (Employee Cost)	3805.77	8089.33	8673.75	9651.11	13809.42
	Loss of Store	0.01	0.00	0.00	0.00	0.34
	Provisions	57.34	0.06	21.73	0.00	0.00
	Prior Period Expenses	0.00	0.00	0.00	0.00	0.00
	Corporate Office expenses allocation	1284.81	2264.81	2789.19	3032.75	6101.27
	Others		100.01	100.10	100 ==	100.01
	Rates & Taxes	35.55	196.94	193.42	190.75	189.81
	Water cess	35.13	44.84	54.41	27.01	74.54
	Training & recruitment expenses	36.65	21.69	41.95	94.34	74.02
	Tender Expenses	21.39	20.99	16.55	39.18	94.17
	Guest house expenses	18.63	29.56	45.37	55.48	60.94
	Education expenses	16.85	28.48	32.36	46.12	74.06
	Community Development Expenses	19.29	99.10	9.39	3.78	0.85
	Ash utilisation expenses	9.36	0.00	0.19	5.58	22.76
	Books & Periodicals	1.15	6.92	0.49	9.72	13.50
	Professional Charges	15.62	19.85	11.82	23.36	55.51
	Legal expenses	15.45	3.61	5.85	2.80	-0.64
	EDP Hire & other charges	40.87	53.51	52.51	42.78	39.64
	Printing & Stationery	21.13	44.27	59.56	47.17	48.57
	Misc and other Expenses	44.67	307.83	620.37	576.03	951.65
	Sub Total (Others)	331.72	877.59	1144.24	1164.10	1699.39
	(Total 1 to 12)	7559.19	18172.28	22014.91	26502.59	44913.30
14	Revenue / Recoveries	7.83	13.86	14.88	16.80	24.54
15	Net Expenses	7551.36	18158.42	22000.03	26485.79	44888.77
16	Capital spares consumed	46.00	71.00	2.00	771.72	1309.23
	Total O&M Cost	7597.36	18229.42	22002.03	27257.51	46198.00
	Expenditure of Capital nature as per accounting					
17	practice not claimed/ disallowed in capital cost	0.00	0.00	0.00	0.00	
	Total O&M Cost incluidng SI No. 17 above	7597.36	18229.42	22002.03	27257.51	46198.00
	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

NNEXUF ro-forma	te-I furnishing Actual annual performance/operational data for the coal	/lignite based	thermal genera	ting stations	for the 5 yea	r period fror	n 2008-09 to	1	
		Units	2008-09	2009-10	2010-11	2011-12	2012-13	Basis of information/ methodology	
1	Name of Company				NTPC				
2	Name of Station			AT SUPER T					
3	Installed Capacity and Configuration	MW		CAPACITY					
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)		Turbine-LM2 Steam Para TPH/540 De C/44.08 kg/o 500 MW: Bo Turbine-KW Steam Para	oiller -Once the Control of the Cont					
5	Type of BFP		Normal: Ste	am Driven, E	mergency :	Flectrical Dr	iven		
6	Circulating Water System		Closed cycle		incigency.	Licetifical Di	IVCII		
7	Any other Site specific feature		Olosea cycle	<u>, </u>					
8	Fuels:								
8.1	Main Fuel:				Coal				
8.1.1	Annual Allocation or/ and Requirement	MT	9.16 MMT (ation through 1980 MW) =15.83 MMT	Requirement has been worked out f				
			FSA s	igned with S	outh Easterr				
8.1.2	Sources of supply/ procurement along with contracted quantity and grade of coal		5.80 MMT	racted quant (1000 MW).					
0.4.0.4	F0.4	N 4-T		Grade of coal					
8.1.2.1	FSA	MT	3.00	5.91	5.93	7.58	10.19		
	l .	MT	0.00	0.11	0.10	0.08	0.98		
3.1.2.3		MT	0.00	0.00	0.00	0.00	0.00		
8.1.3	Transportation Distance of the station from the sources of supply	km	30						
8.1.4	Mode of Transport	Davis 9 MT	MGR 18 days & 7.59 Lac MT						
8.1.5	, ,	Days & MT		18 0	ays & 7.59 L	ac IVI I			
8.2	Secondary Fuel:								
8.2.1		klitre	23494 IOCL,BPCL,HPCL						
8.2.2	Sources of supply			100					
8.2.3	Transportation Distance of the station from the sources of supply	Km			500				
8.2.4	Mode of Transport		Rail/ Road						
8.2.5	Maximum Station capability to stock secondary fuels	kilo Ilitre	9100						
9	Cost of Spares:								
9.1	Cost of Spares capitalized in the books of accounts (St-I)	(Rs. Lakh)				1402		2012-13 data to be submitted later	
	Cost of Spares capitalized in the books of accounts (St-II)	(Rs. Lakh)	1118	721.05	2626	4539			

ANNEXURE-I								_
	nishing Actual annual performance/operational data for the coa	al /lignite based tl	hermal generatir	ng stations fo	or the 5 year	r period from	2008-09 to	
Co	ost of spares included in capital cost for the purpose of tariff					order		
9.2 (St	t-I)	(Rs. Lakh)				reserved		
Co	ost of spares included in capital cost for the purpose of tariff							
(St	t-II)	(Rs. Lakh)	1118	721.05	2626	4539		
10 Ge	eneration							
Act	ctual Gross Generation at generator terminals (Commercial							
10.1 Sa	atge wise)							
10.1.1 Sta	age-1	MU	0	0	0	2063.6	10646.5	
10.1.2 Sta	age-2	MU	4258.5	8175.3	8456.2	8684.8	6908.3	
10.2 Act	ctual Net Generation Ex-bus	MU						
10.2.1 Sta	age-1	MU				1944.5	9969.7	
	age-2	MU	4043.7	7715.7	7982.0	8177.9	6475.6	
10.3 Scl	cheduled Generation Ex-bus							Based on REA
10.3.1 Sta	age-1	MU				1923.4	10006.2	
	age-2	MU	4023.5	7663.5	7928.6	8107.2	6455.6	
	verage Declared Capacity (DC)							Based on REA
	age-1	MW	0.0	0.0	0.0	438.1	1164.0	
	age-2	MW	588.6	875.0	906.5	923.7	742.8	
	ctual Auxiliary Energy Consumption including colony	11111	1 222.0	0.010	00010			
	nsumption							
	age-1	MU				119.1	673.8	
	age-2	MU	214.8	459.6	474.2	506.8	436.1	
	ctual Energy supplied to Colony from the station	MU	0.4	1.9	7.1	7.6	7.0	
	ain Fuel:	1	1					
	onsumption :		1					
	omestic Coal (Linked milne/ Other mines/e-auction/spot)	MT	2873690	5508596	5671654	7011525	10198640	
	ported Coal	MT	0	117640	120939	80351	954472	
	ross Calorific Value (GCV):	1411	 	1170-10	120000	00001	304472	
	omestic Coal (As received)	kCal/kg	+					
14.2.1 00	(As fired)	kCal/kg	+					
14.2.2 lm	ported Coal (As received)	kCal/kg	6138	6113.4	6135	6148	6287	
	oot market/e-auction coal (As received)	kCal/kg	0130	0113.4	0133	0140	0207	
	eighted Average Gross Calorific value (As received)	kCal/kg	+ +	-				
	eighted Average Gross Calorific value (As frederved)	kCal/kg	3491	3411	3426	3545	3681	
	· _ · _ · _ · _ · _ · _ · _ · _ · _	nCai/ny	3481	3411	3420	30 4 3	3001	
	ice of Coal: eighted Average price of Domestic coal	(Rs/MT)	926.0	959.3	1056.0	1283.5	1518.4	
	eighted Average price of Domestic coal	(Rs/MT)	0.0	7085.1	8178.1	9638.6	7352.9	
		(Rs/MT)	0.0	7000.1	01/0.1	90.00.0	7352.9	
	eighted Average price of spot market/ e-auction coal		000.0	1400 7	1171 1	4074.0	2047.7	
	eighted Average price of all the Coals (as received)	(Rs/MT)	926.0	1103.7	1171.4	1374.6	2017.7	
	ending:	% and MT	0.00/	0.404	0.407	4.404	0.007	Impropried/Total Coal Coarses
	ending ratio of imported coal with domestic coal	%	0.0%	2.1%	2.1%	1.1%	8.6%	Imported/ Total Coal Consumption
	oportion of e-Auction coal in the blending	 	20105	40700-	00000:	0.400=5	1==00=	
	ctual Average stock maintained	MT	62128	127035	338024	349350	177885	Average of monthly closing stock
14.5 Act	ctual Transit & Handling Losses for coal/Lignite	%						

ANNEXUR	<u>E-I</u>							_
	furnishing Actual annual performance/operational data for the co	al /lignite based the	ermal generatii	ng stations fo	or the 5 year	r period from	2008-09 to	
	Pit- Head Station							
14.5.1.1	Transit loss from linked mines	MT	0.28%	0.34%	0.09%	0.12%	0.12%	
	Transit loss from non-linked mines including e-auction coal							
	mines.							
	Transit loss of imported coal	MT		0.37%	0.08%	0.17%	0.24%	
	Non-Pit Head station							
	Transit loss from linked mines							
14.5.2.2	Transit loss from non-linked mines including e-auction coal mine	es.						
14.5.2.3	Transit loss of imported coal							
15	Secondary Fuel Oil :							
	Consumption HFO	Kilo litre	1865.1	949.1	1544.1	899.9	7386.0	
	Consumption LDO	Kilo litre	396.8	659.7	195.3	235.2	1474.0	
	Weighted Average Gross Calorific value (As received) HFO	KCal/kg(litre)	9935.3	10076.0	10125.0	10127.2	10130.0	
	Weighted Average Gross Calorific value (As received) LDO	KCal/kg(litre)	10133.1	10206.2	10217.5	10235.2	10225.0	
	Weighted Average Price (HFO)	Rs/ KI	33087.6	29299.4	29194.8	33472.6	52176.5	
	Weighted Average Price (LDO)	Rs/ KI	41374.7	38241.8	41797.4	35282.9	69514.6	
15.4	Actual Average stock maintained HFO	Kilo litre	2450.7	2310.4	3598.0	5086.4	4137.0	Average of monthly closing stock
15.4	Actual Average stock maintained LDO	Kilo litre	449.3	601.7	640.9	825.9	737.6	
16	Weighted average duration of outages							
16.1	Scheduled Outages	MU	0	303.66	333.7	262.9	566.9	
16.2	Forced Outages	MU	161.8	312.5	190.0	877.3	2140.6	
16.3	Number of trippings	No	20	7	10	9	36	
16.4	Number of start-ups :	No	24	17	20	16	74	
16.4.1	Cold Start-up	No	0	6	2	4	11	
16.4.2	Warm Start-up	No	6	5	11	8	41	
16.4.3	Hot start-up	No	18	6	7	4	22	
17	NOx , SOx ,and other particulate emission in :							
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			50			
	Design value of emission- SPM (St-II)	mg/Nm ³			50			
17.2	Actual emission (SPM)- St-I	mg/Nm ³				37-44	37-48	
						457-693	604-714	
	Actual emission (SOx)	mg/Nm ³	 "				306-432	
	Actual emission (NOx)	mg/Nm ³	40.40			262-442		
17.2	Actual emission (SPM)- St-II	mg/Nm ³	42-49	35-48	33-44	39-47	40-47	
	Actual emission (SOx)	mg/Nm ³	772-816	772-875	556-865	510-581	564-640	
17.4	Actual emission (NOx)	mg/Nm ³	336-366	270-330	252-327	273-338	275-382	
		Quantity	Unit just					
19	Detail of Ash utilization % of fly ash produced	Produced (Lakh	commission	21.43	22.09	26.15	41.76	
		MT)	ed					
19.1	Conversion of value added product(Issue to Cement, RMC &	%	0.00	0.64	10.34	12.14	12.52	
13.1	Brick /block industries)		0.00	0.64	10.34	12.14	12.32	
19.2	For making roads & embarkment	%	0.00	0.00	0.00	0.00	0.00	

Pro-forma								
19.3	Land filling	%	0.00	0.32	0.17	0.16	0.58	
19.4	Used in plant site in one or other form or used in some other site (Mine filling & Ash dyke raising)	%	0.00	0.00	0.00	0.00	7.53	
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	
20.0	Cost of spares actually consumed	Rs Lakhs	579.0	2002.1	2290.9	3603.3	5972.8	
21.0	Average stock of spares	Rs Lakhs	680.5	2773.7	5907.9	8989.5	15083.0	
22.0	Number of employees deployed in O&M							
22.1	Executives		397	433	479	503	506	
22.2	Non Executives		287	324	349	383	469	
22.3	Corporate office		3205	3272	3298	3354	3170	Total Corporate Man Power
23	Man-MW ratio		0.68	0.76	0.83	0.38	0.33	Excluding Corporate Man Power

Note:

Pending finalisation of FSA for units commissioned after 2009 ,coal is being supplied through MOU against LOA as per the quantity allotted by CEA on year to year basis

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