	DETAILS OF OPERATION AND MAINTENANCE EXPEN Name of the Company:	NSES NTPC Ltd.			Annexure VI	
	Name of the Power Station:		DC		(Pc In Lakhe)	
l. No.	Items	Kahalgaon ST 2008-09	2009-10	2010-11	(Rs. In Lakhs) 2011-12	2012-13
	Consumption of stores & spares	3492.85	4747.63	5382.84	7266.21	8448.25
	Repair & Maintenance	2792.04	4747.03	5202.30	7586.58	9507.48
	Insurance	330.35	4873.13 670.97	825.92	814.77	823.42
			1392.57			
	Security	1334.40		1608.37	1972.37	1855.18
	Water Charges	15.79	18.06	21.03	132.48	695.35
	Administrative Expenses	7.00	0.55	10.65	40.24	4.24
	Rent	7.90	8.55	10.65	49.21	1.26
	Electricity charges	288.16	334.73	345.78	331.34	353.24
	Travelling & Conveyance	446.70	415.07	536.86	625.33	669.63
	Communication Expenses	83.27	69.74	89.00	97.75	109.88
	Advertising	10.77	28.26	16.53	17.12	20.92
	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	44.69	8.48	10.90	9.14	10.50
6.9	Filing fee	0.00	39.72	43.81	46.80	93.60
	Subtotal (Administrative Expenses)	881.48	904.54	1053.54	1176.70	1259.09
	Employee Cost					
	- Salaries, Wages & Allowances	8621.45	7604.70	11224.58	10631.16	13227.63
	- Staff Welfare expenses	1060.14	1128.33	1044.10	1011.37	1335.69
7.3	- Incentive	368.68	146.91	160.91	47.66	289.70
7.4	- Expenditure on VRS	0.00	0.00	0.00	0.00	0.00
7.5	- Ex-gratia	0.00	223.32	268.34	286.56	307.64
7.6	- Performance Related Pay(PRP)	450.05	718.46	739.51	1118.59	1042.63
	Sub Total (Employee Cost)	10500.32	9821.73	13437.44	13095.35	16203.28
8	Loss of Store	31.15	0.00	0.00	0.00	0.00
9	Provisions	12.75	39.53	5.87	9.43	24.58
10	Prior Period Expenses	0.00	0.00	0.00	0.00	0.00
11	Corporate Office expenses allocation	3240.07	4175.43	6524.93	6152.57	6019.72
12	Others					
12.1	Rates & Taxes	6.13	16.60	21.16	17.75	19.4
12.2	Water cess	53.36	61.52	82.76	79.11	83.22
12.3	Training & recruitment expenses	54.24	63.85	49.00	66.53	53.73
	Tender Expenses	25.58	36.25	95.03	110.00	55.16
12.5	Guest house expenses	12.04	15.84	54.45	54.79	78.32
12.6	Education expenses	132.25	165.63	191.29	33.75	50.52
	Community Development Expenses	79.25	75.20	181.58	405.16	1217.3
	Ash utilisation expenses	64.50	58.43	50.88	101.50	132.90
	Books & Periodicals	7.62	14.17	8.08	8.22	7.6
	Professional Charges	19.14	28.45	46.25	44.53	63.8
	Legal expenses	25.27	27.42	19.20	60.62	22.64
	EDP Hire & other charges	41.69	48.04	45.67	42.87	62.02
	Printing & Stationery	35.81	43.39	49.43	57.01	68.04
	Misc and other Expenses	398.21	738.42	2189.80	1670.24	1615.12
'	Sub Total (Others)	955.07	1393.22	3084.59	2752.08	3530.02
1२	(Total 1 to 12)	23586.28	28038.82	37146.83	40958.53	48366.3
	Revenue / Recoveries	38.41	31.61	38.82	40538.55	48300.3
	Net Expenses	23547.87	28007.22	37108.01	40912.37	48316.54
	Capital spares consumed	148.93	843.05	707.22	1275.64	1235.04
10	Total O&M Cost	23696.80	28850.27	37815.23	42188.01	49551.5
		23050.00	20030.27	5/015.23	72100.01	
4 7	Expenditure of Capital nature as per accounting	0.00	0.00	0.00	0.00	
1/	practice not claimed/ disallowed in capital cost	0.00	0.00	0.00	0.00	40554 -
	Total O&M Cost incluidng SI No. 17 above	23696.80	28850.27	37815.23	42188.01	49551.5

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	E
1	Name of Company				NTPC LTD.			T
2	Name of Station			KAHALGAON SUP				t
	Installed Capacity and Configuration	N () A (t
<u> </u>	Rated Steam Parameters (Also state the type of Steam turbine and	MW	Stage-I: 130 Kg/ cm2		0+3*500 (2340 MV	/V) cm2, 537 Deg Cent		╀
	Boiler		Stage-1. 150 kg/ cmz	, 555 Deg Cent		cmz, 557 Deg Cent		
5	Type of BFP		Electrical Driven	for Stg-1 & Electrica	al Driven (1 stand-b	by) and Steam Drive	en(2) for Stg-2	
6	Circulating Water System				Closed cycle			
7	Any other Site specific feature			CW make up f	rom Ganga water F	Pump House		Τ
8	Fuels:				<u> </u>			t
8.1	Main Fuel:				Coal/Lignite			t
			Annual allocation thro	ough FSA (2340MW		340 MW) (FSA for 2.	32 MT signed	T
			recently)	c (<i>,</i> , ,	-	F
8.1.1	Annual Allocation or/ and Requirement	МТ	Annual requirement	=17.90 MMT				9
				FSA signed with	Eastern Coal fields	s Limited(ECL)		
	Sources of supply/ procurement along with contracted quantity and grade of coal			Annual contr	acted quantity of 1	0.31 MMT		
				Grade of	coal as per FSA is	s A - F		┢
8.1.2.1	FSA + MOU against LOA	MT	6.98	8.10	9.43	9.88	12.45	T
	Imported	MT	0.66	0.89	1.51	1.67	1.05	
	Bi- Lateral MOU		0.00	0.37	0.37	0.00	0.00	⊥
	Spot Market/e-auction	MT	0.00	0.07	0.12	0.00	0.00	⊥
8.1.3	Transportation Distance of the station from the sources of supply	km			30			╇
	Mode of Transport	Dava 9 MT		10	MGR/IR	г		╋
	Maximum Station capability to stock main fuel	Days & MT		16	days & 7.4 Lac M	I		╋
	Secondary Fuel:	klitro	10244	14636	HFO/LDO	19400	10440	+
	Annual Requirement Sources of supply	klitre	10241	1		18499	18449	4
8.2.2 8.2.3		Km			OCL REFINERY EFINRY by Rail ro	Nuto): 519 KM		╀
	Transportation Distance of the station from the sources of supply				-	ule) 310 KIVI		+
0.2.4	Mode of Transport				Rail/ Road	-		\downarrow
	Maximum Station capability to stock secondary fuels	klitre		800	00(HFO)+200(LDO))		╇
9	Cost of Spares:			1		ГГ		╇
	Cost of Spares capitalized in the books of accounts (St-I)	(Rs. Lakh)	225.3			321.0		2
	Cost of Spares capitalized in the books of accounts (St-II)	(Rs. Lakh)	2513.0	3521.0	2595.0	1079.0		╋
		<u> </u>						
9.2	Cost of spares included in capital cost for the purpose of tariff (St-I)	(Rs. Lakh)	0.0	0.0	0.0	0.0		╀
	Cost of spares included in capital cost for the purpose of tariff (St-II)	(Rs. Lakh)	2513.0	3521.0	2595.0	1079.0		
10	Generation							Τ
	Actual Gross Generation at generator terminals (Commercial Satge							T
	wise)							
	Stage-1	MU	6016.96			5568.12	5803.71	_
	Stage-2	MU	3090.54			7870.03	8903.72	-
	Actual Net Generation Ex-bus (Total)	MU	8307.34	10073.84	12962.72	E000 E0	E000 04	╀
10.2.1	Stage-1	MU				5000.59	5222.94	ł

Basis of information/ methodology
Dequirement has been upded out for
Requirement has been worked out for
90% PLF
2012-13 data to 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	B
1	Name of Company				NTPC LTD.			
2	Name of Station		К	AHALGAON SUPE	R THERMAL POW	VER PROJECT		
	Stage-2	MU				7347.47	8337.34	
10.3	Scheduled Generation Ex-bus (Total)		8230.06					В
10.3.1	Stage-1	MU		4584.93	4929.03	5179.77	5465.68	-
10.3.2	Stage-2	MU		5387.25	7964.32	7425.55	8508.32	
11	Average Declared Capacity (DC)- (Total)		943.21					В
	Stage-1	MW		526.12	573.99	614.68	654.43	
11.2	Stage-2	MW		620.19	964.55	910.88	1052.55	
12	Actual Auxiliary Energy Consumption including colony consumption							
12.1	Stage-1	MU	515.59	472.10	503.67	567.53	580.72	
12.2	Stage-2	MU	191.88	392.97	562.37	522.56	566.42	
13	Actual Energy supplied to Colony from the station	MU	16.92	16.23	17.56	17.21	17.41	
14	Main Fuel:							
14.1	Consumption :							
14.1.1	Domestic Coal (Linked miine/ Other mines/e-auction/spot)	МТ	6791596	8336101	9997202	9846491	12357683	
14.1.2	Imported Coal	MT	713103	900612	1457294	1668945	1064280	
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	5988	6151	6032	6078	6135	-
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	2864	2807	2919	2797	2621	
14.3	Price of Coal:							
14.3.1	Weighted Average price of Domestic coal	(Rs/MT)	1094.7	1374.8	1464.5	1636.9	1568.0	
14.3.2	Weighted Average price of imported coal	(Rs/MT)	6208.2	6494.7	7278.2	9250.4	7283.8	
14.3.3	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)	1442.4	1873.4	2204.2	2739.8	1985.3	
14.4	Blending:	% and MT						
14.4.1	Blending ratio of imported coal with domestic coal	%	9.50%	9.75%	12.72%	14.49%	7.93%	lr
14.4.2	Proportion of e-Auction coal in the blending							
	Actual Average stock maintained	MT	57388	58649	44810	52485	86319	Ā
14.5	Actual Transit & Handling Losses for coal/Lignite	МТ						-
14.5.1	Pit- Head Station							_
14.5.1.1	Transit loss from linked mines	MT	0.18%	0.16%	0.12%	0.13%	0.13%	
14.5.1.2	Transit loss from non-linked mines including e-auction coal mines.							
	Transit loss of imported coal	MT	0.05%	0.08%	0.08%	0.09%	0.09%	
	Non-Pit Head station							
14.5.2.1	Transit loss from linked mines							
14.5.2.2	Transit loss from non-linked mines including e-auction coal mines.							_

Basis of information/ methodology
Based on REA
Dased of REA
Based on REA
Import/ Total Coal consumption
Average of monthly closing stock

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	E
1	Name of Company				NTPC LTD.			ſ
2	Name of Station		I	KAHALGAON SUP	ER THERMAL PO	OWER PROJECT		ſ
14.5.2.3	Transit loss of imported coal							ſ
15	Secondary Fuel Oil :							ſ
15.1	Consumption	klitre	10861	10937	10048	11201	9675	Γ
15.2	Weighted Average Gross Calorific value (As received)	kCal/kg(litre)	9952	9927	9913	9917	9896	
15.3	Weighted Average Price	Rs/ Kl	26533	27207	33600	40864	49138	Γ
15.4	Actual Average stock maintained	klitre	9497	5507	4977	5067	5409	/
16	Weighted average duration of outages							Ĺ

Basis of information/ methodology

Average of monthly closing stock

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	Е
1	Name of Company				NTPC LTD.			
2	Name of Station		к	AHALGAON SUPE		WER PROJECT		
16.1	Scheduled Outages	MU	396.45	822.79	791.6	797.19	1140.92	F
16.2	Forced Outages	MU	516.94	2248.55	2078.33	3158.16	1296.08	-
16.3	Number of trippings	No	16	20	24	20	11	Γ
16.4	Number of start-ups :	No	52	43	69	61	49	
16.4.1	Cold Start-up	No	9	18	30	30	20	
16.4.2	Warm Start-up	No	25	10	22	15	20	_
16.4.3	Hot start-up	No	18	15	17	16	9	L
17	NOx , SOx , and other particulate emission in :							L
17.1	Design value of emission- NOx	mg/Nm ³			NA			Ν
	Design value of emission- SOx	mg/Nm ³			NA			Ν
	Design value of emission- SPM (St-I)	mg/Nm ³			150			Γ
	Design value of emission- SPM (St-II)	mg/Nm ³			50			Γ
17.2	Actual emission (SPM) - St I	mg/Nm ³	131-149	141-148	130-148	127-142	121-147	
17.3	Actual emission (SOx)	mg/Nm ³	304-649	414-737	412-738	350-518	324-735	Γ
17.4	Actual emission (NOx)	mg/Nm ³	682-812	596-915	501-937	534-687	531-777	-
17.2	Actual emission (SPM)- St-II	mg/Nm ³	NA	NA*	36-48	38-49	37-49	F
17.3	Actual emission (SOx)	mg/Nm ³						F
17.4	Actual emission (NOx)	mg/Nm ³						┢
17.4		Quantity						┢
10	Detail of Achutilization % of fly ach produced	Produced	24.07	20.21	20 12	39.19	45.63	
19	Detail of Ash utilization % of fly ash produced	1 1	24.97	30.31	38.12	39.19	45.03	
		(Lakh MT)						┡
19.1	Conversion of value added product(Issue to Cement, RMC & Brick	%	8.13	3.01	3.31	4.00	6.91	
	/block industries)	~	0.20				0.0 -	L
19.2	For making roads & embarkment	%	0.85	4.06	6.71	0.00	0.18	L
19.3	Land filling	%	3.57	7.07	6.79	7.73	6.32	
10.4	Used in plant site in one or other form or used in some other site	0/	40.00	0.00	C 00	12.02		Γ
19.4	(Mine filling & Ash dyke raising)	%	13.96	8.86	6.98	12.63	8.98	1
								F
19.5	Any other use , Please specify (Agriculture, Bottom ash cover etc.)	Qty. (Lakh MT)	0.07	0.02	0.05	0.05	0.01	
10.0		and usage	0.07	0.02	0.05	0.03	0.01	
20	Cost of spares actually consumed	(Rs. Lakh)	2893.2	4142.7	4909.1	6146.4	7582.0	┝
20	Average stock of spares	(Rs. Lakh)	6473.7	7146.6	8904.3	11709.0	15294.0	-
		(NS. LdK(I)	04/3./	/140.0	8904.3	11/09.0	15294.0	⊢
22	Number of employees deployed in O&M	├	470	101	105	100	100	L
22.1	Executives	<u> </u>	479	481	465	480	483	-
22.2	Non Executives	┼───┼	609 3205	607 3272	595 3298	621 3354	613 3170	_
22.3 23	Corporate office Man-MW ratio	<u> </u>	0.59	0.46	0.45	0.47		
23		<u> </u>	0.09	0.40	0.40	0.47	0.47	Ľ

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

Basis of information/ methodology
No norm; not considered in design
No norm; not considered in design
No hom, net considered in design
Total Corporate Man Power Excluding Corporate Man Power
Excluding Corporate Man Power