ANNEXURE-I
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

	<u> </u>					T		T
	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			BADARPUR THE				
3	Installed Capacity and Configuration	MW			705 MW			
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)		Boiler (95MW): MS Turbine(95MW): Tw Boiler(210MW): N Turbine(210MW):	vo Cylinder, Non-R ИS/HRH Temp:54				
5	Type of BFP				Electrical Driven			
6	Circulating Water System			Closed c	ycle & Open cycle	e (Both)		
7	Any other Site specific feature				, ,	,		
8	Fuels:							
8.1	Main Fuel:				Coal			
8.1.1	Annual Allocation or/ and Requirement	MT	Annual allocation th Annual requirement	-		Requirement has been worked out for 90% PLF		
8.1.2	Sources of supply/ procurement along with contracted quantity and grade of coal		FSA signed with					
	Iquanity and grade of coal			cted quantity of 4.2				
8.1.2.1	FSA	MT	4.01	4.20	3.28	W-IV, WC , ECL: A	3.93	
	Imported	MT	0.04	0.16	0.43	0.03	0.00	
	Spot Market/e auction	MT	0.00	0.00	0.00	0.00	0.00	
8.1.3	Transportation Distance of the station from the sources of		0.00	CC				
8.1.4	Mode of Transport				IR	-		
8.1.5	Maximum Station capability to stock main fuel	Days & MT		30	0 days & 5.0 LM1	-		
8.2	Secondary Fuel:				LDO,HSD			
8.2.1	Annual Requirement	klitre						
8.2.2	Sources of supply		IOC/HPCL/BPCL					
	Transportation Distance of the station from the sources				2000			
	of supply	Km						
	Mode of Transport	I.P.C.		0.47				
	, , ,	klitre		645				
9	Cost of Spares:	(D - 1 -11-)	500		4077	4000		0040 40 Jata ta La a Lac'us Hatas
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	582	1111	1277	1909		2012-13 data to be submitted later
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)	_	٥	0	٥		
10	Generation	(INS. Lakii)	0	0	0			
10.1	Actual Gross Generation at generator terminals (Comme	rcial Satge wise	5503.95	5107.95	4553.12	4775.19	4555.64	
10.1		MU	5091.92	4692.58	4163.87	4361.75	4181.14	
10.2	Scheduled Generation Ex-bus	1410	5027.97	4630.92	4093.10	4298.44		Based on REA
11	Average Declared Capacity (DC)	MW	592.77	542.56	565.87	562.54		Based on REA
12	Actual Auxiliary Energy Consumption including colony co	ļ.	412.03	415.37	389.25	413.43	374.49	
13		MU	Not Available	8.21	8.29	8.32	8.27	

ANNEXURE-I
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		Į		NTPC LTD.			
2	Name of Station		BADARPUR THERMAL POWER STATION(BTPS)					
14	Main Fuel:							
14.1	Consumption :							
14.1.1	Domestic Coal (Linked milne/ Other mines/e-auction/sp	MT	4319379	3986134	3302893	4159122	4006209	
14.1.2	Imported Coal*	MT	38000	200000	400828	63531		
14.2	Gross Calorific Value (GCV):	1711	00000	200000	+00020	00001		
14.2.1	Domestic Coal (As received)	kCal/kg						
17.2.1	(As fired)	kCal/kg						
14.2.2	Imported Coal (As received)	kCal/kg	5370	5466	5347	5025	N/A	
	Spot market/e-auction coal (As received)	kCal/kg	3370	3400	3547	3023	14/74	
14.2.4	Weighted Average Gross Calorific value (As received)	kCal/kg						
14.2.5	Weighted Average Gross Calorific value (As fired)	kCal/kg	3496	3347	3371	3098	3116	
14.3	Price of Coal:	in a similar	0.00	30		3333	00	
14.3.1	Weighted Average price of Domestic coal	(Rs/MT)	NA	2532.47	2730.70	3285.05	3647.62	
		,					3047.02	
14.3.2	Weighted Average price of imported coal	(Rs/MT)	NA	7520.15	7686.13	8130.50		
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)	2470.70	2718.63	3283.31	3356.77	3647.62	
14.4	Blending:	% and MT						
14.4.1	Blending ratio of imported coal with domestic coal		0.9%	4.8%	10.8%	1.5%	0.0%	Imported/ Total Coal consumption
	Proportion of e-Auction coal in the blending							
14.4.3	Actual Average stock maintained	MT	147881	95658	319151	121295	86936	Average of monthly closing stock
14.5	Actual Transit & Handling Losses for coal/Lignite							
14.5.1	Pit- Head Station		NA	NA	NA	NA	NA	
4.5.1.1	Transit loss from linked mines		NA	NA	NA	NA	NA	
	Transit loss from non-linked mines including e-auction							
	coal mines.		NA	NA	NA	NA	NA	
4.5.1.3	Transit loss of imported coal		NA	NA	NA	NA	NA	
14.5.2	Non-Pit Head station							
	Transit loss from linked mines		0.80%	0.80%	0.909/	0.909/	0.80%	
	Transit loss from non-linked mines including e-auction of	nol minos	0.60%	0.80%	0.80%	0.80%	0.80%	
	Transit loss from non-linked fillings including e-auction of	Jai mines.	0.20%	0.20%	0.20%	0.20%	0.20%	
4.5.2.5	Transitioss of imported coal		0.2076	0.2076	0.2076	0.2076	0.2076	
15	Secondary Fuel Oil :							
15.1	Consumption	klitre	3274.8	3843.0	3683.5	4773.0	6895.5	
15.2	Weighted Average Gross Calorific value (As received)	kCal/kg(litre)	9552.5	9452.9	9447.4	9477.5	9503.9	
15.3	Weighted Average Price: HSD	Rs/ KL	29235.3	28856.0	31897.3	34807.6	37523.7	
	Weighted Average Price: LDO	Rs/ KL	34116.5	35328.1	41500.5	48618.4	62389.3	
15.4	Actual Average stock maintained (HSD)	klitre	1996	1621	2907	2940		Average of monthly closing stock
	Actual Average stock maintained (LDO)	klitre	97	129	101	109	99	Average of monthly closing stock
16	Weighted average duration of outages				T			
16.1	Scheduled Outages	MU	252.47	604.77	367.96	394.05	334.08	
16.2	Forced Outages	MU	163.53	183.43	695.88	361.94	510.67	

ANNEXURE-I
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			BADARPUR THE				
16.3	Number of trippings	No	43	48	88	87	112	
16.4	Number of start-ups :	No	47	52	90	89	114	
16.4.1	Cold Start-up	No	5	5	14	12	19	
16.4.2	Warm Start-up	No	12	16	28	16	22	
16.4.3	Hot start-up	No	30	31	48	61	73	
17	NOx , SOx ,and other particulate emission in :							
17.1	Design value of emission- NOx	mg/Nm ³		_	No norm; not considered in design			

ANNEXURE-I
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

	1		1					I
	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	of Station BADARPUR THERMAL POWER STATION(BTPS)						
	Design value of emission- SOx	mg/Nm ³			No norm; not considered in design			
	Design value of emission- SPM	mg/Nm ³						
	Design value of emission- SPM	mg/Nm ³			150			
17.2	Actual emission (SPM)-St-I	mg/Nm ³	92-146	108-146	74-133	84-122	90-122	
17.3	Actual emission (SOx)	mg/Nm ³	708-806	720-806	736-810	728-892	736-766	
17.4	Actual emission (NOx)	mg/Nm ³	298-362	298-344	300-318	300-320	302-322	
17.2	Actual emission (SPM)-St-II	mg/Nm ³	84-144	82-141	70-143	77-130	83-128	
17.3	Actual emission (SOx)	mg/Nm ³	728-810	756-810	756-810	756-812	772-816	
17.4	Actual emission (NOx)	mg/Nm ³	320-398	344-370	324-374	342-276	346-374	
19	Detail of Ash utilization % of fly ash produced	Quantity Produced (Lakh MT)	13.17	12.53	11.05	12.64	12.02	
19.1	Conversion of value added product(Issue to Cement, RMC & Brick /block industries)	%	8.46	6.71	17.29	47.97	82.96	
19.2	For making roads & embarkment	%	35.68	70.10	45.89	38.13	2.50	
19.3	Land filling	%	9.53	8.30	2.97	0.99	1.16	
19.4	Used in plant site in one or other form or used in some other site (Mine filling & Ash dyke raising)	%	26.57	0.00	23.08	0.00	0.00	
19.5	Any other use , Please specify (Agriculture, Bottom ash cover etc.)	Qty. (Lakh M T) and usage	0.00	0.00	0.00	0.00	0.00	
20	Cost of spares actually consumed	Rs Lakh	3269.5	4551.3	4312.9	5893.0	4844.3	
21	Average stock of spares	Rs Lakh	4613.4	5289.1	4625.4	4757.4	5422.2	
22	Number of employees deployed in O&M							
22.1	Executives		349	351	351	353	341	
22.2	Non Executives		977	881	773	686	565	
22.3	Corporate office + RHQs		3205	3272	3298	3354	3170	Total Corporate Man Power
23	Man-MW ratio		1.88	1.75	1.59	1.47	1.29	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