Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
1	Name of Company			**NTPC Ltd.**					
2	Name of Station/ Pit head or Non- Pit head			**Feroz Gandhi Unchahar Thermal Power Station Stage-I (Non Pit-Head)**					
	Stage			**Stage-I**					
3	Installed Capacity and Configuration		MW	2 X 210 = 420 MW					
3.1	Date of Commercial Operation - Unit Wise			Unit-1- 21.11.1988, Unit-2- 22.03.1989					
3.2	Effective COD			22.03.1989					
	Make of Turbine			KWU, WEST GERMANY					
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)			TANGENTIALLY FIRED, BALANCE DRAUGHT, NATURAL CIRCULATION, RADIANT REHEAT TYPE, DRY BOTTOM, DIRECT FIRED PULVERIZED COAL WITH, BOWL MILL / 175.8 kg/cm2 /540 °C					
5	Type of BFP			Stage-I - Electric Driven					
	Quantity			Stage-1 3 x 2 MDBFP,					
6	Circulating water system			Close Cycle					
7	Any other Site specific feature								
	Design Unit heat rate		Kcal/Kwh	Stage-I 2340.85					
	Design Boiler efficiency		%	Stage-I - 84.67					
	Design Turbine cycle heat rate		Kcal/Kwh	Stage-I 1982					
8	**Fuels :**								
8.1	**Primary Fuel :**			Coal					
8.1.1	Annual Allocation under FSA		MT	Annual allocation of 7.41 MMT					For Full capacity of 1550 MW
	Annual Consumption		MT	1694743	1731745	1548700	1299793	1315746	
	Annual Requirment at NAPAF			1995882	1976882	2126847	2212545	2061753	
8.1.2	Sources of supply/ procurement along with contracted quantity and			CCL, BCCL, ECL, NTPC-PB, IMPORTED, MCL, SCCL					
8.1.2.1	FSA	LoA	MT	4354342	4753142	5687132	4884451	5122349	
		MoU	MT					67602	
8.1.2.2	Imported*		MT	0	0	154004	19550	130293	
8.1.2.	Spot Market/e-auction*		MT	410521	0	0	0	0	
8.1.3	Transportation Distance of the station from the sources of supply		KM	401 Km to 1383 Km					
8.1.4	Mode of Transport			Rail/Road/Sea					For Full capacity of 1550

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
8.1.5	Maximum Station capability to stock primary fuel (for days consider availability as NAPAF)	Days & MT	27 & 598991					MW
8.1.6	Maximum stock maintained for primary fuel	MT	697174	764233	847436	727936	385452	
	Date		22-04-2017	31-03-2019	10-04-2019	May-20	01-04-2021	
8.1.7	Minimum Stock maintained for primary fuel	MT	0	0	83381	175173	3870	
	Date		07-10-2017	18-08-2018	12-09-2019	Feb-21	14-10-2021	
8.1.8	Average stock maintained for primary fuel	MT	302306	331269	416962	394371	184111	
8.2	**Secondary Fuel :**							
8.2.1	Annual Allocation/ Requirement	KL	10000KL					For Full capacity of 1550 MW
8.2.2	Sources of supply		IOCL					
8.2.3	Transportation Distance of the station from the sources of supply	KM	140					
8.2.4	Mode of Transport		Rail					
8.2.5	Maximum Station capability to stock secondary fuels	KL	12000KL					
8.2.6	Maximum Stock of secondary oil actually maintained	KL	7500KL					
8.2.7	Minimum Stock of secondary oil actually maintained	KL	1850KL					
8.2.8	Average Stock of secondary oil actually maintained	KL	5000KL					
9.	Cost of Spares :							
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	4751.04	6532.63	5365.16	4462.63	3804.89	For Full capacity of 1550 MW
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)	NA					
9.3	Initial spares-list, quantity and cost	(Rs. Lakh)	NA					
9.4	Maintenance spares - cost	(Rs. Lakh)	3480.98	5478.92	5715.34	6118.66	5776.83	For Full capacity of 1550 MW
9.5	Other spares procured with high lead procurement time	(Rs. Lakh)	1407.99	3162.9	2850.45	3258.64	639.79	For Full capacity of 1550 MW
10	**Generation :**							
10.1	-Actual Gross Generation at generator terminals	MU	2589.99	2681.37	2219.62	1772.64	1932.85	
10.2	-Actual Net Generation Ex-bus	MU	2337.21	2418.71	1981.37	1562.02	1707.28	
10.3	-Scheduled Generation Ex-bus	MU	2434.20	2507.71	2081.29	1618.41	1813.79	
11	Average Declared Capacity (DC)	MW	336.17	370.16	364.14	384.11	328.69	
	DC Peak HD %	%				102.93	85.03	
	DC Off Peak HD %	%				103.04	85.44	
	DC Peak LD %	%				99.36	86.44	
	DC Off Peak LD %	%				99.27	86.17	
	Actual Declared Capacity	MU	2944.87	3242.61	3198.63	3364.80	2879.34	
	Deemed Declared Capacity	MU	2944.87	3242.61	3198.63	3364.80	2879.34	
12	Actual Auxiliary Energy Consumption excluding colony	MU	240.40	253.02	228.90	201.87	215.16	
13	Actual Energy supplied to Colony from the station	MU	11.38	9.43	9.30	8.52	10.01	
	Actual energy supplied to construction activities	MU	1.00	0.21	0.04	0.23	0.40	
	Actual energy supplied to long term and medium term beneficiaries	MU	2398.9	2446.9	2102.4	1659.7	1710.2	
	Actual energy supplied in short term							
	Energy supplied under bilateral arrangements							
	Energy supplied through excahnges							

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	Energy supplied under DSM		MU	-96.99	-89.00	-99.92	-56.39	-106.51	
	Energy supplied SCED								
14	**Primary Fuel :**								
14.1	Consumption **:**		MT						
14.1.1	Domestic coal	From Linked Mines	MT	1694742.8	1731745.4	1523347	1295543	1307463	
		From Non-Linkd Mines	MT						
		From Integerated Mines	MT						
14.1.2	Imported coal		MT	0	0	25353	4250	8283	
14.1.3	Spot market/e-auction coal		MT						
14.2	Gross Calorific Value (GCV) :								
14.2.1	Domestic Coal (for each type)	(As Billed) - EM Basis as per third party	kCal/kg	4188	4527	4632	4104	4545	For Full capacity of 1550 MW
		(As Received) - TM Basis as per third party	kCal/kg	3851	3990	3913	3529	3751	
14.2.2	Imported Coal	(As Billed) - ADB Basis	kCal/kg			5834	5758	6182	
		(As Received) - ADB Basis	kCal/kg			4888	4826	5440	
14.2.3	Spot market/e- auction coal	(As Billed)	kCal/kg	4817					
		(As Received)	kCal/kg	3989					
14.2.4	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) **(As Billed)**		kCal/kg	4207	4527	4674	4111	4595	
14.2.5	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) **(As Received)**		kCal/kg	3760	3876	3680	3538	3795	
	Ash content in coal (%)			36.03%	34.87%	36.05%	35.12%	37.70%	
14.3	**Price of coal :**								
	Billed Cost (including adjustments)								For Full capacity of 1550 MW
	Amount Charged by transporting agency upto delivery point								
14.3.1	Weighted Average Landed price of Domestic coal		(Rs/MT)	3650	4243	4825	3796	4321	
	Components of landed cost and break up								
	1. Cost of coal,		(Rs/MT)	2287	2819	3341	2288	2784	
	2. Transportation		(Rs/MT)	1363	1424	1484	1508	1529	
	3. Other charges		(Rs/MT)					8	
14.3.2	Weighted Average Landed Price of Imported coal		(Rs/MT)	0	0	8437	8233	14061	
	Components of landed cost and break up								
14.3.3	Weighted Average Landed Price of Spot market / e-auction coal		(Rs/MT)						
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the Coals		(Rs/MT)	3650	4243	4921	3813	4561	
14.4	Blending :		% and MT (of the total coal consumed)						
	Blending ratio of imported coal with domestic coal		Equivalent to domestic coal	0.000	0.000	1.637	0.327	0.630	
14.4.2	Proportion of e-auction coal in the blending		% & MT						

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	Coal stockyard capacity		MT	739406	739406	739406	598991	598991	For Full capacity of 1550 MW
14.5	Actual daily Average Coal stock maintained		MT	302306	331269	416962	394371	184111	
			Days	13	14	18	8	11	
14.5	**Actual Transit & Handling Losses for coal/Lignite**								
14.5.1	**Pit- Head Station**								
14.5.1.1	Transit loss from linked mines		%						
14.5.1.2	Transit loss from non-linked mines including e-auction coal mines.		%						
14.5.1.3	Transit loss of imported coal		%			NA			
14.5.2	**Non-Pit Head station**								
14.5.2.1	Transit loss from linked mines		%	0.780	0.790	0.790	0.750	0.740	
14.5.2.2	Transit loss from non-linked mines including e-auction coal mines.		%						
14.5.2.3	Transit loss of imported coal		%						
15	**Secondary Fuel Oil :**								
15.1	Consumption	HFO	KL	336.03	675.377	0	0	0	
		HSD	KL	480.5	300.5	4212.3	1624.4	4320.3	
15.2	Weighted Average Gross Calorific value	HFO	(kCal / Lit.)	9807	9642				
	(As received)	HSD	(kCal / Lit.)	9939	9202	9642	9538	8169	
15.3	Weighted Average Price	HFO	(Rs / KL)		47114				For station capacity 1550 MW
		HSD	(Rs / KL)	41575	56567	54507	40993	64299	
15.4	Actual Average stock maintained	HFO	KL	652	652	652	652	652	
		HSD	KL	136.123	680.172	1008.72	2379.72	961.49	
16	**Weighted average duration of outages(unit-wise details)**:								
16.1	Planned Outages		(Days)	16.6	14.3	15.0	0.0	30.4	
16.2	Forced Outages		(Days)	3.11	4.51	11.59	1.78	4.91	
	Within control of generator		(Days)	0.0	0.0	0.1	0.2	0.5	
	beyond control of generator		(Days)	3.1	4.5	11.5	1.6	4.4	
16.3	Number of tripping		Nos.	15	14	17	12	24	
16.4	Number of start-ups**:**		Nos.	15	14	17	12	24	
16.4.1	Cold Start-up		Nos.	2	1	5	7	10	
16.4.2	Warm Start-up		Nos.	3	3	4	2	5	
16.4.3	Hot start-up		Nos.	9	14	10	6	9	
17	NOx , SOx ,and other particulate matter emission in **:** at conditions specified by MoEF&CC								
17.1	Design value of emission control equipment (specify conditions)					ECS system under installation.			
	FGD installation date								
	NOX Control system installation date								
17.2	Actual emission (Stage-I)	SPM	mg/Nm^3						
		NOX	mg/Nm^3						
		SOX	mg/Nm^3			Attached as Annexure-A			
	Actual emission (Stage-II)	SPM	mg/Nm^3						
		NOX	mg/Nm^3						
		SOX	mg/Nm^3						

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	Ash dyke capacity as on 31st March							
	Ash pond capacity as on 31st March							
	Fund avalable in Ash Fund Account as on 31st		Attached as Annexure-B					
	Amount utilized from Ash Fund Account							
	Ash available as on 31st March	LMT	16.8	17.21	21.65	19.77	20.85	For station capacity 1550 MW
	Ash utilized for construction of ash dyke	LMT	0	0.25	1.81	0	0	
	Ash utilized within plant premise, other than construction of ash dyke	LMT	0.01	0.02	0.02	0.02	0.01	
	Ash transported	LMT	4.68	9.65	6.66	24.61	17.76	
	Average Distance	Km	150	150	150	150	150	For station capacity 1550 MW
19	Detail of Ash utilization % of fly ash produced	(%)	102.15	117.98	90.35	166.46	159.14	
19.1	Conversion of value added product	(%)	61.76	59.53	42.45	41.98	43.69	
19.2	For making roads &embarkment	(%)	27.85	56.10	30.76	124.48	85.18	
19.3	Land filling	(%)	0.04	0.11	1.66	0.00	0.00	
19.4	Used in plant site in one or other form or used in some other site	(%)	0.00	1.45	8.36	0.00	0.00	
19.5	Any other use , Please specify	(%)	12.50	0.80	7.11	0.00	30.26	
20	Cost of spares actually consumed	(Rs. Lakh)	0.00	0.95	141.32	38.42		
21	Average stock of spares	(Rs. Lakhs)	14957	16201	17532	18334	20220	For station capacity 1550 MW
22	Number of employees deployed in O&M	Nos.						
22.1	- Executives	Nos.	396	369	312	291	284	For station capacity 1550 MW
22.2	- Non Executives	Nos.	423	362	323	298	248	
22.3	- Corporate office	Nos.	2568	2241	2016	1815	1728	
23	Man-MW ratio	Man/MW	0.53	0.47	0.41	0.38	0.34	
	Total billed amount		Attached As Annexure-C					
	Total received amount within due date							
	Total amount received beyond due date							
	Total amount pending							
	Total amount under dispute							
	Total rebate given							
	Total LPSC recovered							
24	**Generation Switchyard Details**		200KV and 400KV with ICT conection					
	No. of Bays voltagewise		26bays of 220kV and 9 bays of 400KV					
	ICT - nos and rating		1.NO. ICT 500MVA 400 KV / 220 KV					
	Dedicated transmission line - voltage and length		04 no. 220KV Kanpur line 144 km					
			03 no. 220KV Raebareli line 42.5 km					
			01 no. 220KV Fatehpur line 56 km					
			01 no. 220KV Malwan line 85 km					
			02 no. 400KV Fatehpur line 54 km					

Note: Ash available on 31st March indicated is total ash generated during the FY and distance indicated is Weighted average distance of ash transportation.

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
1	Name of Company			**NTPC Ltd.**					
2	Name of Station/ Pit head or Non- Pit head			**Feroz Gandhi Unchahar Thermal Power Station/ (Non Pit-Head)**					
	Stage			**Stage-II**					
3	Installed Capacity and Configuration		MW	2 X 210 = 420 MW					
3.1	Date of Commercial Operation - Unit Wise			Unit-1: 1.1.2001 Unit-2: 1.3.2000					
3.2	Effective COD			01.01.2001					
	Make of Turbine			BHEL- KRAFT WERK UNION DESIGN					
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)			Natural circulation, radiant reheat outdoor, /184.5 Kg/cm² (g),					
5	Type of BFP			Electric Driven					
	Quantity			3 x 2 MDBFP,					
6	Circulating water system			Close Cycle					
7	Any other Site specific feature								
	Design Unit heat rate		Kcal/Kwh	Stage-2: 2262					
	Design Boiler efficiency			Stage-2: - 86.86					
	Design Turbine cycle heat rate			Stage-2: - 1964.9					
8	**Fuels :**								
8.1	**Primary Fuel :**			Coal					
8.1.1	Annual Allocation under FSA		MT	Annual allocation of 7.41 MMT					For Full capacity of 1550 MW
	Annual Consumption		MT	1795615	1702453	1580591	1373655	1526717	
	Annual Requirment at NAPAF		MT	1996507	1960837	2102693	2191161	2065828	
8.1.2	Sources of supply/ procurement along with contracted quantity and			CCL, BCCL, ECL, NTPC-PB, IMPORTED, MCL, SCCL					
8.1.2.1	FSA	LoA	MT	4354342	4753142	5687132	4884451	5122349	
		MoU	MT					67602	
8.1.2.2	Imported*		MT	0	0	154004	19550	130293	
8.1.2.	Spot Market/e-auction*		MT	410521	0	0	0	0	
8.1.3	Transportation Distance of the station from the sources of supply		KM	401 Km to 1383 Km					
8.1.4	Mode of Transport			Rail/Road/Sea					For Full capacity of 1550

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
8.1.5	Maximum Station capability to stock primary fuel (for days consider availability as NAPAF)	Days & MT	27 & 598991					MW
8.1.6	Maximum stock maintained for primary fuel	MT	697174	764233	847436	727936	385452	
	Date		22-04-2017	31-03-2019	10-04-2019	May-20	01-04-2021	
8.1.7	Minimum Stock maintained for primary fuel	MT	0	0	83381	175173	3870	
	Date		07-10-2017	18-08-2018	12-09-2019	Feb-21	14-10-2021	
8.1.8	Average stock maintained for primary fuel	MT	302306	331269	416962	394371	184111	
8.2	**Secondary Fuel :**							
8.2.1	Annual Allocation/ Requirement	KL	10000KL					For Full capacity of 1550 MW
8.2.2	Sources of supply		IOCL					
8.2.3	Transportation Distance of the station from the sources of supply	KM	140					
8.2.4	Mode of Transport		Rail					
8.2.5	Maximum Station capability to stock secondary fuels	KL	12000KL					
8.2.6	Maximum Stock of secondary oil actually maintained	KL	7500KL					
8.2.7	Minimum Stock of secondary oil actually maintained	KL	1850KL					
8.2.8	Average Stock of secondary oil actually maintained	KL	5000KL					
9.	Cost of Spares :							
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	4751.04	6532.63	5365.16	4462.63	3804.89	For Full capacity of 1550 MW
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)	Nil					
9.3	Initial spares-list, quantity and cost	(Rs. Lakh)	NA					
9.4	Maintenance spares - cost	(Rs. Lakh)	3480.98	5478.92	5715.34	6118.66	5776.83	For Full capacity of 1550 MW
9.5	Other spares procured with high lead procurement time	(Rs. Lakh)	1407.99	3162.9	2850.45	3258.64	639.79	For Full capacity of 1550 MW
10	**Generation :**							
10.1	**-Actual Gross Generation at generator terminals**	MU	2754.34	2654.12	2271.96	1877.28	2235.42	
10.2	**-Actual Net Generation Ex-bus**	MU	2494.92	2401.08	2043.48	1668.48	1991.94	
10.3	**-Scheduled Generation Ex-bus**	MU	2587.46	2477.19	2115.94	1666.55	2152.85	
11	**Average Declared Capacity (DC)**	MW	368.98	366.79	373.87	360.92	354.57	
	DC Peak HD %	%				104.23	92.78	
	DC Off Peak HD %	%				103.92	92.36	
	DC Peak LD %	%				92.37	94.27	
	DC Off Peak LD %	%				92.34	93.93	
	Actual Declared Capacity	MU	3232.27	3213.09	3284.09	3161.63	3106.00	
	Deemed Declared Capacity	MU	3232.27	3213.09	3284.09	3161.63	3106.00	
12	**Actual Auxiliary Energy Consumption excluding colony**	MU	254.86	248.32	228.08	204.31	239.93	
13	**Actual Energy supplied to Colony from the station**	MU	4.56	4.71	0.40	4.49	3.55	
	Actual energy supplied to construction activities	MU	0.00	0.00	0.00	0.00	0.00	
	Actual energy supplied to long term and medium term beneficiaries	MU	2546.4	2434.6	2150.5	1765.3	2106.4	

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	Actual energy supplied in short term								
	Energy supplied under bilateral arrangements								
	Energy supplied through excahnges								
	Energy supplied under DSM		MU	-92.54	-76.11	-72.46	1.93	-160.92	
	Energy supplied SCED								
14	**Primary Fuel :**								
14.1	**Consumption :**								
14.1.1	Domestic coal	From Linked Mines	MT	1795614.5	1702452.5	1530936.253	1368655.44	1523413	
		From Non-Linkd Mines	MT						
		From Integerated Mines	MT						
14.1.2	Imported coal		MT	0	0	49654.747	5000	3304	
14.1.3	Spot market/e-auction coal		MT	NA	NA	NA	NA	NA	
14.2	Gross Calorific Value (GCV) :								
14.2.1	Domestic Coal (for each type)	(As Billed) - EM Basis as per third party	kCal/kg	4188	4527	4632	4104	4545	For Full capacity of 1550 MW
		(As Received) - TM Basis as per third party	kCal/kg	3851	3990	3913	3529	3751	
14.2.2	Imported Coal	(As Billed) - ADB Basis	kCal/kg			5834	5758	6182	
		(As Received) - ADB Basis	kCal/kg			4888	4826	5440	
14.2.3	Spot market/e- auction coal	(As Billed)	kCal/kg	4817					
		(As Received)	kCal/kg	3989					
14.2.4	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Billed)		kCal/kg	4207	4527	4674	4111	4595	
14.2.5	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Received)		kCal/kg	3759	3888	3691	3538	3793	
	Ash content in coal (%)		%	36.03%	34.87%	36.05%	35.12%	37.70%	
14.3	**Price of coal :**								
	Billed Cost (including adjustments)								For Full capacity of 1550 MW
	Amount Charged by transporting agency upto delivery point								
14.3.1	Weighted Average Landed price of Domestic coal		(Rs/MT)	3650	4243	4825	3796	4321	
	Components of landed cost and break up								
	1. Cost of coal,		(Rs/MT)	2287	2819	3341	2288	2784	
	2. Transportation		(Rs/MT)	1363	1424	1484	1508	1529	
	3. Other charges		(Rs/MT)					8	
14.3.2	Weighted Average Landed Price of Imported coal		(Rs/MT)	0	0	8437	8233	14061	
	Components of landed cost and break up								
14.3.3	Weighted Average Landed Price of Spot market / e-auction coal		(Rs/MT)						
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the Coals		(Rs/MT)	3650	4243	4921	3813	4561	

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
14.4	Blending :		% and MT (of the total coal consumed)						
	Blending ratio of imported coal with domestic coal		Equivalent to domestic coal	0.000	0.000	3.142	0.364	0.216	
14.4.2	Proportion of e-auction coal in the blending		% & MT						
	Coal stockyard capacity		MT	739406	739406	739406	598991	598991	For Full capacity of 1550 MW
14.5	Actual daily Average Coal stock maintained		MT	302306	331269	416962	394371	184111	
			Days	13	14	18	8	11	
14.5	Actual Transit & Handling Losses for coal/Lignite								
14.5.1	Pit- Head Station								
14.5.1.1	Transit loss from linked mines		%						
14.5.1.2	Transit loss from non-linked mines including e-auction coal mines.		%						
14.5.1.3	Transit loss of imported coal		%			NA			
14.5.2	Non-Pit Head station								
14.5.2.1	Transit loss from linked mines		%	0.780	0.790	0.790	0.750	0.740	
14.5.2.2	Transit loss from non-linked mines including e-auction coal mines.		%						
14.5.2.3	Transit loss of imported coal		%						
15	Secondary Fuel Oil :								
15.1	Consumption	HFO	KL	201.483	1245.841	0	0	0	
		HSD	KL	416.7	734.5	2474.2	2347.6	2173.8	
15.2	Weighted Average Gross Calorific value (As received)	HFO	(kCal / Lit.)	9841	9598	0	0	0	For station capacity 1550 MW
		HSD	(kCal / Lit.)	9602	9645	9639	9552	7548	
15.3	Weighted Average Price	HFO	(Rs / KL)		47114				
		HSD	(Rs / KL)	41575	56567	54507	40993	64299	
15.4	Actual Average stock maintained	HFO	KL	652	652	652	652	652	
		HSD	KL	136.123	680.172	1008.72	2379.72	961.49	
16	Weighted average duration of outages(unit-wise details):								
16.1	Planned Outages		(Days)	9.2	17.5	17.0	21.5	22.1	
16.2	Forced Outages		(Days)	1.47	3.99	2.00	6.90	2.93	
	Within control of generator		(Days)	0.1	0.2	0.1	0.0	0.0	
	beyond control of generator		(Days)	1.4	3.8	1.9	6.9	2.9	
16.3	Number of tripping		Nos.	12	14	15	10	10	
16.4	Number of start-ups:		Nos.	12	14	15	10	10	
16.4.1	Cold Start-up		Nos.	2	2	2	4	4	
16.4.2	Warm Start-up		Nos.	1	2	1	3	2	
16.4.3	Hot start-up		Nos.	8	13	12	5	5	
17	NOx , SOx ,and other particulate matter emission in : at conditions specified by MoEF&CC								
17.1	Design value of emission control equipment (specify conditions)					ECS system under installation.			
	FGD installation date								

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	NOX Control system installation date								
17.2	Actual emission (Stage-I)	SPM	mg/Nm^3	Attached as Annexure-A					
		NOX	mg/Nm^3						
		SOX	mg/Nm^3						
	Actual emission (Stage-II)	SPM	mg/Nm^3						
		NOX	mg/Nm^3						
		SOX	mg/Nm^3						
	Ash dyke capacity as on 31st March								
	Ash pond capacity as on 31st March								
	Fund avalable in Ash Fund Account as on 31st			Attached as Annexure-B					
	Amount utilized from Ash Fund Account								
	Ash available as on 31st March		LMT	16.8	17.21	21.65	19.77	20.85	For station capacity 1550 MW
	Ash utilized for construction of ash dyke		LMT	0	0.25	1.81	0	0	
	Ash utilized within plant premise, other than construction of ash dyke		LMT	0.01	0.02	0.02	0.02	0.01	
	Ash transported		LMT	4.68	9.65	6.66	24.61	17.76	
	Average Distance		Km	150	150	150	150	150	
19	Detail of Ash utilization % of fly ash produced		(%)	102.15	117.98	90.35	166.46	159.14	
19.1	Conversion of value added product		(%)	61.76	59.53	42.45	41.98	43.69	
19.2	For making roads &embarkment		(%)	27.85	56.10	30.76	124.48	85.18	
19.3	Land filling		(%)	0.04	0.11	1.66	0.00	0.00	
19.4	Used in plant site in one or other form or used in some other site		(%)	0.00	1.45	8.36	0.00	0.00	
19.5	Any other use , Please specify		(%)	12.50	0.80	7.11	0.00	30.26	
20	Cost of spares actually consumed		(Rs. Lakh)	99.07	108.12	110.88	145.31	59.02	
21	Average stock of spares		(Rs. Lakhs)	14957	16201	17532	18334	20220	For station capacity 1550 MW
22	Number of employees deployed in O&M		Nos.						For station capacity 1550 MW
22.1	- Executives		Nos.	396	369	312	291	284	
22.2	- Non Executives		Nos.	423	362	323	298	248	
22.3	- Corporate office		Nos.	2568	2241	2016	1815	1728	
23	Man-MW ratio		Man/MW	0.53	0.47	0.41	0.38	0.34	
	Total billed amount			Attached As Annexure-C					
	Total received amount within due date								
	Total amount received beyond due date								
	Total amount pending								
	Total amount under dispute								
	Total rebate given								
	Total LPSC recovered								
24	**Generation Switchyard Details**			200KV and 400KV with ICT conection					

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	No. of Bays voltagewise			26bays of 220kV and 9 bays of 400KV					
	ICT - nos and rating			1.NO. ICT 500MVA 400 KV / 220 KV					
	Dedicated transmission line - voltage and length			04 no. 220KV Kanpur line 144 km					
				03 no. 220KV Raebareli line 42.5 km					
				01 no. 220KV Fatehpur line 56 km					
				01 no. 220KV Malwan line 85 km					
				02 no. 400KV Fatehpur line 54 km					

Note: Ash available on 31st March indicated is total ash generated during the FY and distance indicated is Weighted average distance of ash transportation.

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
1	Name of Company			**NTPC Ltd.**					
2	Name of Station/ Pit head or Non- Pit head			**Feroz Gandhi Unchahar Thermal Power Station Stage-III (Non Pit-Head)**					
	Stage			**one Stage**					
3	Installed Capacity and Configuration		MW	1 X 210 = 210 MW					
3.1	Date of Commercial Operation - Unit Wise			01.01.2007					
3.2	Effective COD			01.01.2007					
	Make of Turbine								
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)			Natural circulation, radiant reheat outdoor,/179.0 Kg/cm² (g) /					
5	Type of BFP			Electric Driven					
	Quantity			3 x 1 MDBFP,					
6	Circulating water system			Close Cycle					
7	Any other Site specific feature								
	Design Unit heat rate		Kcal/Kwh	Stage-III 2305.4					
	Design Boiler efficiency			Stage-III - 85.23					
	Design Turbine cycle heat rate			Stage-III - 1964.9					
8	**Fuels :**								
8.1	**Primary Fuel :**			Coal					
8.1.1	Annual Allocation under FSA		MT	Annual allocation of 7.41 MMT					For Full capacity of 1550 MW
	Annual Consumption		MT	901850	794239	831208	772522	819833	
	Annual Requirment at NAPAF			997915	972417	1058167	1114125	1029480	
8.1.2	Sources of supply/ procurement along with contracted quantity and			CCL, BCCL, ECL, NTPC-PB, IMPORTED, MCL, SCCL					
8.1.2.1	FSA	LoA	MT	4354342	4753142	5687132	4884451	5122349	
		MoU	MT					67602	
8.1.2.2	Imported*		MT	0	0	154004	19550	130293	
8.1.2.	Spot Market/e-auction*		MT	410521	0	0	0	0	
8.1.3	Transportation Distance of the station from the sources of supply		KM	401 Km to 1383 Km					
8.1.4	Mode of Transport			Rail/Road/Sea					For Full capacity of 1550

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
8.1.5	Maximum Station capability to stock primary fuel (for days consider availability as NAPAF)	Days & MT	27 & 598991					MW
8.1.6	Maximum stock maintained for primary fuel	MT	697174	764233	847436	727936	385452	
	Date		22-04-2017	31-03-2019	10-04-2019	May-20	01-04-2021	
8.1.7	Minimum Stock maintained for primary fuel	MT	0	0	83381	175173	3870	
	Date		07-10-2017	18-08-2018	12-09-2019	Feb-21	14-10-2021	
8.1.8	Average stock maintained for primary fuel	MT	302306	331269	416962	394371	184111	
8.2	**Secondary Fuel :**							
8.2.1	Annual Allocation/ Requirement	KL	10000KL					For Full capacity of 1550 MW
8.2.2	Sources of supply		IOCL					
8.2.3	Transportation Distance of the station from the sources of supply	KM	140					
8.2.4	Mode of Transport		Rail					
8.2.5	Maximum Station capability to stock secondary fuels	KL	12000KL					
8.2.6	Maximum Stock of secondary oil actually maintained	KL	7500KL					
8.2.7	Minimum Stock of secondary oil actually maintained	KL	1850KL					
8.2.8	Average Stock of secondary oil actually maintained	KL	5000KL					
9.	Cost of Spares :							
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	4751.04	6532.63	5365.16	4462.63	3804.89	For Full capacity of 1550 MW
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)	Nil					
9.3	Initial spares-list, quantity and cost	(Rs. Lakh)						
9.4	Maintenance spares - cost	(Rs. Lakh)	3480.98	5478.92	5715.34	6118.66	5776.83	For Full capacity of 1550 MW
9.5	Other spares procured with high lead procurement time	(Rs. Lakh)	1407.99	3162.9	2850.45	3258.64	639.79	For Full capacity of 1550 MW
10	**Generation :**							
10.1	**-Actual Gross Generation at generator terminals**	MU	1382.70	1242.99	1198.67	1051.54	1215.17	
10.2	**-Actual Net Generation Ex-bus**	MU	1256.75	1126.63	1082.04	941.44	1094.02	
10.3	**-Scheduled Generation Ex-bus**	MU	1313.72	1162.40	1126.11	943.51	1127.75	
11	**Average Declared Capacity (DC)**	MW	189.60	177.54	196.77	181.58	183.76	
	DC Peak HD %	%				104.66	99.48	
	DC Off Peak HD %	%				104.66	98.77	
	DC Peak LD %	%				91.32	95.09	
	DC Off Peak LD %	%				91.40	95.27	
	Actual Declared Capacity	MU	1660.87	1555.27	1728.45	1590.66	1609.70	
	Deemed Declared Capacity	MU	1660.87	1555.27	1728.45	1590.66	1609.70	
12	**Actual Auxiliary Energy Consumption excluding colony**	MU	125.94	116.36	116.63	110.10	121.15	
13	**Actual Energy supplied to Colony from the station**	MU	0.00	0.00	0.00	0.00	0.00	
	Actual energy supplied to construction activities	MU	0.00	0.00	0.00	0.00	0.00	
	Actual energy supplied to long term and medium term beneficiaries	MU	1273.8	1126.5	1112.6	991.0	1109.6	

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	Actual energy supplied in short term								
	Energy supplied under bilateral arrangements								
	Energy supplied through excahnges								
	Energy supplied under DSM		MU	-56.97	-35.77	-44.07	-2.07	-33.73	
	Energy supplied SCED								
14	**Primary Fuel :**								
14.1	**Consumption :**								
14.1.1	Domestic coal	From Linked Mines	MT	898137.9	794239.3	804908	768712	777802	
		From Non-Linkd Mines	MT						
		From Integerated Mines	MT						
14.1.2	Imported coal		MT	0	0	26300	3810	41531.6	
14.1.3	Spot market/e-auction coal		MT						
14.2	Gross Calorific Value (GCV) :								
14.2.1	Domestic Coal (for each type)	(As Billed) - EM Basis as per third party	kCal/kg	4188	4527	4632	4104	4545	For Full capacity of 1550 MW
		(As Received) - TM Basis as per third party	kCal/kg	3851	3990	3913	3529	3751	
14.2.2	Imported Coal	(As Billed) - ADB Basis	kCal/kg			5834	5758	6182	
		(As Received) - ADB Basis	kCal/kg			4888	4826	5440	
14.2.3	Spot market/e- auction coal	(As Billed)	kCal/kg	4817					
		(As Received)	kCal/kg	3989					
14.2.4	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Billed)		kCal/kg	4207	4527	4674	4111	4595	
14.2.5	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Received)		kCal/kg	3763	3868	3687	3559	3803	
	Ash content in coal (%)		%	36.03%	34.87%	36.05%	35.12%	37.70%	
14.3	**Price of coal :**								
	Billed Cost (including adjustments)								For Full capacity of 1550 MW
	Amount Charged by transporting agency upto delivery point								
14.3.1	Weighted Average Landed price of Domestic coal		(Rs/MT)	3650	4243	4825	3796	4321	
	Components of landed cost and break up								
	1. Cost of coal,		(Rs/MT)	2287	2819	3341	2288	2784	
	2. Transportation		(Rs/MT)	1363	1424	1484	1508	1529	
	3. Other charges		(Rs/MT)					8	
14.3.2	Weighted Average Landed Price of Imported coal		(Rs/MT)	0	0	8437	8233	14061	
	Components of landed cost and break up								
14.3.3	Weighted Average Landed Price of Spot market / e-auction coal		(Rs/MT)						
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the Coals		(Rs/MT)	3650	4243	4921	3813	4561	

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
14.4	Blending :		% and MT (of the total coal consumed)						
	Blending ratio of imported coal with domestic coal		Equivalent to domestic coal	0.000	0.000	3.164	0.493	5.066	
14.4.2	Proportion of e-auction coal in the blending		% & MT						
	Coal stockyard capacity		MT	739406	739406	739406	598991	598991	For Full capacity of 1550 MW
14.5	Actual daily Average Coal stock maintained		MT	302306	331269	416962	394371	184111	
			Days	13	14	18	8	11	
14.5	Actual Transit & Handling Losses for coal/Lignite								
14.5.1	Pit- Head Station								
14.5.1.1	Transit loss from linked mines		%						
14.5.1.2	Transit loss from non-linked mines including e-auction coal mines.		%						
14.5.1.3	Transit loss of imported coal		%			NA			
14.5.2	Non-Pit Head station								
14.5.2.1	Transit loss from linked mines		%	0.780	0.790	0.790	0.750	0.740	
14.5.2.2	Transit loss from non-linked mines including e-auction coal mines.		%						
14.5.2.3	Transit loss of imported coal		%						
15	Secondary Fuel Oil :								
15.1	Consumption	HFO	KL	60.26	675.079	0	0	0	
		HSD	KL	140.8	139.6	1150.5	536.9	1632.1	
15.2	Weighted Average Gross Calorific value (As received)	HFO	(kCal / Lit.)	9778	9781	0	0	0	For station capacity 1550 MW
		HSD	(kCal / Lit.)	9306	9652	9636	9552	8341	
15.3	Weighted Average Price	HFO	(Rs / KL)		47114				
		HSD	(Rs / KL)	41575	56567	54507	40993	64299	
15.4	Actual Average stock maintained	HFO	KL	652	652	652	652	652	
		HSD	KL	136.123	680.172	1008.72	2379.72	961.49	
16	Weighted average duration of outages(unit-wise details):								
16.1	Planned Outages		(Days)	3.8	27.0	0.0	32.0	9.2	
16.2	Forced Outages		(Days)	0.56	8.52	4.33	0.49	2.93	
	Within control of generator		(Days)	0.0	0.0	0.2	0.0	0.4	
	beyond control of generator		(Days)	0.6	8.5	4.2	0.5	2.5	
16.3	Number of tripping		Nos.	4	7	7	3	6	
16.4	Number of start-ups:		Nos.		7	7	3	6	
16.4.1	Cold Start-up		Nos.	0	3	1	1	2	
16.4.2	Warm Start-up		Nos.	1	0	0	0	1	
16.4.3	Hot start-up		Nos.	2	4	6	2	4	
17	NOx , SOx ,and other particulate matter emission in : at conditions specified by MoEF&CC								
17.1	Design value of emission control equipment (specify conditions)					ECS system under installation.			
	FGD installation date								

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	NOX Control system installation date								
17.2	Actual emission (Stage-I)	SPM	mg/Nm^3	Attached as Annexure-A					
		NOX	mg/Nm^3						
		SOX	mg/Nm^3						
	Actual emission (Stage-II)	SPM	mg/Nm^3						
		NOX	mg/Nm^3						
		SOX	mg/Nm^3						
	Ash dyke capacity as on 31st March								
	Ash pond capacity as on 31st March								
	Fund avalable in Ash Fund Account as on 31st			Attached as Annexure-B					
	Amount utilized from Ash Fund Account								
	Ash available as on 31st March		LMT	16.8	17.21	21.65	19.77	20.85	For station capacity 1550 MW
	Ash utilized for construction of ash dyke		LMT	0	0.25	1.81	0	0	
	Ash utilized within plant premise, other than construction of ash dyke		LMT	0.01	0.02	0.02	0.02	0.01	
	Ash transported		LMT	4.68	9.65	6.66	24.61	17.76	
	Average Distance		Km	150	150	150	150	150	
19	Detail of Ash utilization % of fly ash produced		(%)	102.15	117.98	90.35	166.46	159.14	
19.1	Conversion of value added product		(%)	61.76	59.53	42.45	41.98	43.69	
19.2	For making roads &embarkment		(%)	27.85	56.10	30.76	124.48	85.18	
19.3	Land filling		(%)	0.04	0.11	1.66	0.00	0.00	
19.4	Used in plant site in one or other form or used in some other site		(%)	0.00	1.45	8.36	0.00	0.00	
19.5	Any other use , Please specify		(%)	12.50	0.80	7.11	0.00	30.26	
20	Cost of spares actually consumed		(Rs. Lakh)	37.51	194.94	241.18	119.17	419.02	
21	Average stock of spares		(Rs. Lakhs)	14957	16201	17532	18334	20220	For station capacity 1550 MW
22	Number of employees deployed in O&M		Nos.						For station capacity 1550 MW
22.1	- Executives		Nos.	396	369	312	291	284	
22.2	- Non Executives		Nos.	423	362	323	298	248	
22.3	- Corporate office		Nos.	2568	2241	2016	1815	1728	
23	Man-MW ratio		Man/MW	0.53	0.47	0.41	0.38	0.34	
	Total billed amount			Attached As Annexure-C					
	Total received amount within due date								
	Total amount received beyond due date								
	Total amount pending								
	Total amount under dispute								
	Total rebate given								
	Total LPSC recovered								
24	**Generation Switchyard Details**			200KV and 400KV with ICT conection					

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	No. of Bays voltagewise			26bays of 220kV and 9 bays of 400KV					
	ICT - nos and rating			1.NO. ICT 500MVA 400 KV / 220 KV					
	Dedicated transmission line - voltage and length			04 no. 220KV Kanpur line 144 km					
				03 no. 220KV Raebareli line 42.5 km					
				01 no. 220KV Fatehpur line 56 km					
				01 no. 220KV Malwan line 85 km					
				02 no. 400KV Fatehpur line 54 km					

Note: Ash available on 31st March indicated is total ash generated during the FY and distance indicated is Weighted average distance of ash transportation.

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18 (30.09.2017 to 31.03.2018)	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
1	Name of Company			**NTPC Ltd.**					
2	Name of Station/ Pit head or Non- Pit head			**Feroze Gandhi Unchahar Super Thermal Power Station**					
	Stage			**Stage-IV**					
3	Installed Capacity and Configuration		MW	1 x 500 MW = 500 MW					
3.1	Date of Commercial Operation - Unit Wise			Unit-I 30.09.2017,					
3.2	Effective COD			Station COD 30.09.2017					
	Make of Turbine			BHEL					
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)			Controlled Circulation with Refilled tubing , (CC+) ,Dry bottom ,Radiant Reheat ,Single drum ,Top supported ,Balanced Draft Furnace , / 209 Kg/cm2(g)					
5	Type of BFP			2 TDBFP+1MDBFP					
	Quantity			3					
6	Circulating water system			Close Cycle					
7	Any other Site specific feature								
	Design Unit heat rate		Kcal/Kwh	2270.27027					
	Design Boiler efficiency			Stage-IV - 85.10					
	Design Turbine cycle heat rate			Stage-IV - 1932					
8	**Fuels :**								
8.1	**Primary Fuel :**			Coal					
8.1.1	Annual Allocation under FSA		MT	Annual allocation of 7.41 MMT					For Full capacity of 1550 MW
	Annual Consumption		MT	176558	417676	1908106	1733999	1865539	
	Annual Requirment at NAPAF		MT	1155986	2239737	2457744	2563770	2376270	
8.1.2	Sources of supply/ procurement along with contracted quantity and			CCL, BCCL, ECL, NTPC-PB, IMPORTED, MCL, SCCL					For Full capacity of 1550 MW
8.1.2.1	FSA	LoA	MT	4354342	4753142	5687132	4884451	5122349	
		MoU	MT					67602	
8.1.2.2	Imported*		MT	0	0	154004	19550	130293	
8.1.2.	Spot Market/e-auction*		MT	410521	0	0	0	0	
8.1.3	Transportation Distance of the station from the sources of supply		KM	401 Km to 1383 Km					
8.1.4	Mode of Transport			Rail/Road/Sea					
8.1.5	Maximum Station capability to stock primary fuel (for days consider availability as NAPAF)		Days & MT	27 & 598991					
8.1.6	Maximum stock maintained for primary fuel		MT	697174	764233	847436	727936	385452	

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars	Units	2017-18 (30.09.2017 to 31.03.2018)	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	Date		22-04-2017	31-03-2019	10-04-2019	May-20	01-04-2021	
8.1.7	Minimum Stock maintained for primary fuel	MT	0	0	83381	175173	3870	
	Date		07-10-2017	18-08-2018	12-09-2019	Feb-21	14-10-2021	
8.1.8	Average stock maintained for primary fuel	MT	302306	331269	416962	394371	184111	
8.2	**Secondary Fuel :**							
8.2.1	Annual Allocation/ Requirement	KL	10000KL					For Full capacity of 1550 MW
8.2.2	Sources of supply		IOCL					
8.2.3	Transportation Distance of the station from the sources of supply	KM	140					
8.2.4	Mode of Transport		Rail					
8.2.5	Maximum Station capability to stock secondary fuels	KL	12000KL					
8.2.6	Maximum Stock of secondary oil actually maintained	KL	7500KL					
8.2.7	Minimum Stock of secondary oil actually maintained	KL	1850KL					
8.2.8	Average Stock of secondary oil actually maintained	KL	5000KL					
9.	Cost of Spares :							
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	4751.04	6532.63	5365.16	4462.63	3804.89	For Full capacity of 1550 MW
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)	1060.8					
9.3	Initial spares-list, quantity and cost	(Rs. Lakh)						
9.4	Maintenance spares - cost	(Rs. Lakh)	3480.98	5478.92	5715.34	6118.66	5776.83	For Full capacity of 1550 MW
9.5	Other spares procured with high lead procurement time	(Rs. Lakh)	1407.99	3162.9	2850.45	3258.64	639.79	For Full capacity of 1550 MW
10	**Generation :**							
10.1	**-Actual Gross Generation at generator terminals**	MU	271.11	662.52	2836.35	2455.32	2859.19	
10.2	**-Actual Net Generation Ex-bus**	MU	252.51	611.04	2655.77	2290.67	2680.79	
10.3	**-Scheduled Generation Ex-bus**	MU	262.24	616.43	2659.40	2306.70	2754.66	
11	**Average Declared Capacity (DC)**	MW	33.88	104.45	448.28	414.78	421.93	
	DC Peak HD %	%				97.72	96.43	
	DC Off Peak HD %	%				97.84	95.96	
	DC Peak LD %	%				85.41	88.32	
	DC Off Peak LD %	%				85.33	87.91	
	Actual Declared Capacity	MU	296.76	914.98	3937.65	3633.43	3696.09	
	Deemed Declared Capacity	MU	296.76	914.98	3937.65	3633.43	3696.09	
12	**Actual Auxiliary Energy Consumption excluding colony**	MU	18.60	51.48	180.58	164.66	178.40	
13	**Actual Energy supplied to Colony from the station**	MU	0.00	0.00	0.00	0.00	0.00	
	Actual energy supplied to construction activities	MU	0.00	0.00	0.00	0.00	0.00	
	Actual energy supplied to long term and medium term beneficiaries		257.9	613.0	2468.7	2311.7	2572.6	
	Actual energy supplied in short term							
	Energy supplied under bilateral arrangements							
	Energy supplied through excahnges							

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18 (30.09.2017 to 31.03.2018)	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
	Energy supplied under DSM		MU	-9.73	-5.39	-3.64	-16.03	-73.88	
	Energy supplied SCED								
14	**Primary Fuel :**								
14.1	**Consumption :**								
14.1.1	Domestic coal	From Linked Mines	MT	179102.5	417676	1855683	1727543	1788732	
		From Non-Linkd Mines	MT						
		From Integerated Mines	MT						
14.1.2	Imported coal		MT	0	0	52423.3	6455.9	76806.9	
14.1.3	Spot market/e-auction coal		MT						
14.2	Gross Calorific Value (GCV) :								
14.2.1	Domestic Coal (for each type)	(As Billed) - EM Basis as per third party	kCal/kg	4188	4527	4632	4104	4545	For Full capacity of 1550 MW
		(As Received) - TM Basis as per third party	kCal/kg	3851	3990	3913	3529	3751	
14.2.2	Imported Coal	(As Billed) - ADB Basis	kCal/kg			5834	5758	6182	
		(As Received) - ADB Basis	kCal/kg			4888	4826	5440	
14.2.3	Spot market/e- auction coal	(As Billed)	kCal/kg	4817					
		(As Received)	kCal/kg	3989					
14.2.4	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Billed)		kCal/kg	4207	4527	4674	4111	4595	
14.2.5	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Received)		kCal/kg	3675	3757	3688	3559	3794	
	Ash content in coal (%)			36.03%	34.87%	36.05%	35.12%	37.70%	

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18 (30.09.2017 to 31.03.2018)	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
14.3	**Price of coal :**								
	Billed Cost (including adjustments)								For Full capacity of 1550 MW
	Amount Charged by transporting agency upto delivery point								
14.3.1	Weighted Average Landed price of Domestic coal		(Rs/MT)	3650	4243	4825	3796	4321	
	Components of landed cost and break up								
	1. Cost of coal,			2287	2819	3341	2288	2784	
	2. Transportation			1363	1424	1484	1508	1529	
	3. Other charges							8	
14.3.2	Weighted Average Landed Price of Imported coal		(Rs/MT)			8437	8233	14061	
	Components of landed cost and break up								
14.3.3	Weighted Average Landed Price of Spot market / e-auction coal		(Rs/MT)						
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the Coals		(Rs/MT)	3650	4243	4921	3813	4561	
14.4	Blending :		% and MT (of the total coal consumed)						
	Blending ratio of imported coal with domestic coal		Equivalent to domestic coal	0.000	0.000	2.747	0.372	4.117	
14.4.2	Proportion of e-auction coal in the blending		% & MT						
	Coal stockyard capacity		MT	739406	739406	739406	598991	598991	For Full capacity of 1550 MW
14.5	Actual daily Average Coal stock maintained		MT	302306	331269	416962	394371	184111	
			Days	13	14	18	8	11	
14.5	Actual Transit & Handling Losses for coal/Lignite								
14.5.1	Pit- Head Station			NA					
14.5.1.1	Transit loss from linked mines		%						
14.5.1.2	Transit loss from non-linked mines including e-auction coal mines.		%						
14.5.1.3	Transit loss of imported coal		%						
14.5.2	Non-Pit Head station								
14.5.2.1	Transit loss from linked mines		%	0.780	0.790	0.790	0.750	0.740	
14.5.2.2	Transit loss from non-linked mines including e-auction coal mines.		%						
14.5.2.3	Transit loss of imported coal		%						
15	Secondary Fuel Oil :								
15.1	Consumption	HFO	KL	0	245.707	0	0	0	
		HSD	KL	431.6	2690.1	3398.0	1687.5	1242.1	
15.2	Weighted Average Gross Calorific value (As received)	HFO	(kCal / Lit.)	0	9796	0	0	0	
		HSD	(kCal / Lit.)	7254	9647	9646	9562	8889	
15.3	Weighted Average Price	HFO	(Rs / KL)		47114				
		HSD	(Rs / KL)	41575	56567	54507	40993	64299	
15.4	Actual Average stock maintained	HFO	KL	652	652	652	652	652	
		HSD	KL	136.123	680.172	1008.72	2379.72	961.49	
16	Weighted average duration of outages(unit-wise details):								

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18 (30.09.2017 to 31.03.2018)	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
16.1	Planned Outages		(Days)	0.0	257.5	8.6	46.5	9.1	
16.2	Forced Outages		(Days)	301.81	22.94	19.94	8.59	14.55	
	Within control of generator		(Days)	0.4	0.1	0.3	0.1	0.0	
	beyond control of generator		(Days)	301.5	22.9	19.7	8.4	14.5	
16.3	Number of tripping		Nos.	8	13	17	6	9	
16.4	Number of start-ups:		Nos.	8	13	17	6	9	
16.4.1	Cold Start-up		Nos.	2	4	4	4	2	
16.4.2	Warm Start-up		Nos.	0	4	6	1	3	
16.4.3	Hot start-up		Nos.	5	7	9	3	6	
17	NOx , SOx ,and other particulate matter emission in : at conditions specified by MoEF&CC			ECS system under installation.					
17.1	Design value of emission control equipment (specify conditions)								
	FGD installation date								
	NOX Control system installation date								
17.2	Actual emission (Stage-I)	SPM	mg/Nm^3	Attached as Annexure-A					
		NOX	mg/Nm^3						
		SOX	mg/Nm^3						
	Actual emission (Stage-II)	SPM	mg/Nm^3						
		NOX	mg/Nm^3						
		SOX	mg/Nm^3						
	Ash dyke capacity as on 31st March								
	Ash pond capacity as on 31st March								
	Fund avalable in Ash Fund Account as on 31st			Attached as Annexure-B					
	Amount utilized from Ash Fund Account								
	Ash available as on 31st March		LMT	16.8	17.21	21.65	19.77	20.85	For station capacity 1550 MW
	Ash utilized for construction of ash dyke		LMT	0	0.25	1.81	0	0	
	Ash utilized within plant premise, other than construction of ash dyke		LMT	0.01	0.02	0.02	0.02	0.01	
	Ash transported		LMT	4.68	9.65	6.66	24.61	17.76	
	Average Distance		Km	150	150	150	150	150	
19	Detail of Ash utilization % of fly ash produced		(%)	102.15	117.98	90.35	166.46	159.14	
19.1	Conversion of value added product		(%)	61.76	59.53	42.45	41.98	43.69	
19.2	For making roads &embarkment		(%)	27.85	56.10	30.76	124.48	85.18	
19.3	Land filling		(%)	0.04	0.11	1.66	0.00	0.00	
19.4	Used in plant site in one or other form or used in some other site		(%)	0.00	1.45	8.36	0.00	0.00	
19.5	Any other use , Please specify		(%)	12.50	0.80	7.11	0.00	30.26	
20	Cost of spares actually consumed		(Rs. Lakh)	963.33	905.70	613.59	410.05	344.84	
21	Average stock of spares		(Rs. Lakhs)	14957	16201	17532	18334	20220	
22	Number of employees deployed in O&M		Nos.						

Annexure–I

Pro-forma for furnishing Actual annual performance/operational data for the coal/lignite based thermal generating stations for the 5-year period from 2017-18 to 2021-22

S.N	Particulars		Units	2017-18 (30.09.2017 to 31.03.2018)	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/ Remarks
22.1	- Executives		Nos.	396	369	312	291	284	
22.2	- Non Executives		Nos.	423	362	323	298	248	
22.3	- Corporate office		Nos.	2568	2241	2016	1815	1728	
23	Man-MW ratio		Man/MW	0.53	0.47	0.41	0.38	0.34	
	Total billed amount			Attached As Annexure-C					
	Total received amount within due date								
	Total amount received beyond due date								
	Total amount pending								
	Total amount under dispute								
	Total rebate given								
	Total LPSC recovered								
24	**Generation Switchyard Details**			200KV and 400KV with ICT conection					
	No. of Bays voltagewise			26bays of 220kV and 9 bays of 400KV					
	ICT - nos and rating			1.NO. ICT 500MVA 400 KV / 220 KV					
	Dedicated transmission line - voltage and length			04 no. 220KV Kanpur line 144 km					
				03 no. 220KV Raebareli line 42.5 km					
				01 no. 220KV Fatehpur line 56 km					
				01 no. 220KV Malwan line 85 km					
				02 no. 400KV Fatehpur line 54 km					

Note: Ash available on 31st March indicated is total ash generated during the FY and distance indicated is Weighted average distance of ash transportation.

Annexure-V (C)

Name of Generating Station : Unchahar STPS I
Stage: Stage-I
COD of Units/Station :
Details of expenditure incurred from Compensation Allowance and Special Allowance .

FY Year	Add-cap allowed by the Commission under the provision of Regulation		Compensatory allowance allowed by the Commission, if any	Special allowance allowed by the Commission, if any	Income tax rate	Effective Compensatory allowance available for Expenditure	Effective Special allowance available for Expenditure	Details of Asset/Work wise Capitalisation based on the Expenditure allowed by the Commission in the tariff period 2014-19						Total Expenditure done under Special and Compensation Allowance	Capitalisation done which has not been claimed/ allowed in the tariff	Difference of Allowed vs Expenditure	Capital Spares	Total Addition during the year	Total Addition during the year as per duly audited Schedule of Fixed Asset	Variation if any to be reconciled /justified.
								Capitalisation out of add cap allowed under Regulation		Capitalisation out of Compensation allowance in the stations wherever applicable		Capitalisation out of Special Allowance allowed in the stations where applicable								
	Net Basis	Liability included in (2)			(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)-Gross	Asset/work	(Rs. lakh)	(Rs. Lakhs)						
1	2	3	4	5	6	7 = 4* 6	8 = 5 * 6	9		10		11		12=10+11	13	14=(2+3+7+8)-(9+12+13)	15	16=9+12+13+15		
										Rack & Pinion Elevator in CHP	3.46						2,410.89		
										DELTA-PI TRANSMITTER	9.94						-840.78		
										RENOVATION OF TURBOVISORY INSTRUMENTS	69.52								
										RENOVATION OF ID/FD/PA BLADE IGV ACTUATORS	25.68							1,570.11	Decap Allowed: (-)14.83
2009-10	-	-	273.00	Nil	33.99	180.21				Renovation of Gen purity meter	5.63			198.37	2,120.64	-2,138.80	91.88			Decap disallowed: (-)380.64
										BOILER TUBE LEAKAGE DETECTION SYSTEM	24.72									Decap Spares: (-)41.76,
										SUPPLY & erection of PKG AC & OTHER MATERIALS	12.57									Decap of MBOA: (-) 141.60,
										SUPPLY & INSTALLATION OF MICRO PROCESSOR BASD DIGITAL AVR	46.85									FERV:(-)261.96,
								Total	-	**Total**	**198.37**	**Total**	-					1,570.11		
								Room for Flue Gas Analyzer	0.32	HP HEATER	63.69						942.27	819.68	
										Fugutive dust emmission system	45.01								
										COAL HANDLING PLANT	4.13								
										ELECTRICAL EQUIPMENTS (6.6 KV MOCBs)	1.80								Decap Spares: (-)38.00,
2010-11	0.32	-	273.00	Nil	33.22	182.31				Installation of Gullotine gates	0.34			127.37		54.95	814.58		Decap of MBOA: (-) 57.79,
										Capitalisation of MBOA	0.24								FERV:(-)26.60,
										220 KV SWITCH Yard	2.86								
										DAS EQUIPMENT FOR MONITORING ENERGY FLOW	9.30								
								Total	**0.32**	**Total**	**127.37**	**Total**	-					819.86		
								Locomotive 1350/1120 HP	894.88	RH Reheater Coils	690.16						2,290.24		
										EQUIPMENT FOR MONITORING ENERGY FLOW/DAS	5.14						128.42	2,418.66	
										Renovation AVR panel of Excitation System	50.13								Decap disallowed: (-)77.09
2011-12	727.04	-	273.00	Nil	33.45	181.70				Supply of Package A/C System for 6.6 KV MOCBS	18.40			784.55		-770.69	610.81		Decap Spares: (-)94.67,
										Air Circuit Breaker	18.34								Decap of MBOA: (-)15.26,
										Installation,T & C of vacuum contactor.	2.37								FERV: 333.45
																			Liability Rev.:(-)17.98,
								Total	**894.88**	Total	**784.55**	Total	-					2,418.66		
										Replacement of Underground Fire	37.40						984.25		
										Replacement of IAC/PAC	652.15							785.17	Decap disallowed: (-)323.73
2012-13	-	-	273.00	Nil	33.45	181.70								689.55		-507.85	294.70		Decap Spares: (-)46.40,
																			Decap of MBOA: (-)4.27,
																			FERV: 232.03
								Total	-	**Total**	**689.55**	**Total**	-					785.17		Liability Rev.:(-)56.70,
								Locomotive 1350/1120 HP	0.86	CHP Stage -I CBMS and suspended Magnet	37.34							1,302.52	
										R&M of Wagon Tippler of CHP Stage - I	574.36								Decap allowed: (-)231.40
										Replacement of Generator Protection Panel of unit -1 & 2	42.04								Decap Spares: (-)253.83,
2013-14	-	0.86	273.00	Nil	33.99	180.21				Upgradation of ST-I Stn. Transformer 1&2 Protection System	17.72			973.86	-	-793.65	553.01	1,527.73	Decap of MBOA: (-)13.86,
										Replacement of HP Heater No. 6 for Stage-I	302.40								FERV: 274.06
																			Liability Rev.:(-)0.195,
								Total	**0.86**	Total	**973.86**								

FY Year	Add-cap allowed by the Commission under the provision of Regulation 9(2)		Compensatory allowance allowed by the Commission, if any	Special allowance allowed by the Commission, if any	Income tax rate	Effective Compensatory allowance available for Expenditure	Effective Special allowance available for Expenditure	Details of Asset/Work wise Capitalisation based on the Expenditure allowed by the Commission in the tariff period 2014-19						Total Expenditure done under Special and Compensation Allowance	Capitalisation done which has not been claimed/ allowed in the tariff	Difference of Allowed vs Expenditure	Capital Spares	Total Addition during the year	Total Addition during the year as per duly audited Schedule of Fixed Asset	Variation if any to be reconciled /justified.
								Capitalisation out of add cap allowed under Regulation 9(2)		Capitalisation out of Compensation allowance in the stations wherever applicable		Capitalisation out of Special Allowance allowed in the stations where applicable								
	Net Basis	Liability included in			(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)-Gross	Asset/work	(Rs. lakh)	(Rs. Lakhs)					
1	2	3	4	5	6	7 = 4* 6	8 = 5 * 6	9		10		11		12=10+11	13	14=(2+3+7+8)-(9+12+13)	15	16=9+12+13+15	17	18
Details of expenditure incurred from Compensation Allowance and Special Allowance during Tariff Period 2014-19																				
2014-15	0	0	0	3150	20.9605	0.000	2489.744					Online monitoring of CO2 in flue gas at stack	151.39	2056.38		433.36	538.06	2594.44	2194.0	Decap disallowed: (-) 47.60, Decap (building) (-) 88.15, Decap Spares: (-) 147.12, Decap Items not claimed: (-) 127.26, Decap of MBOA: (-) 59.42 , IUT- 6.7, Loan ERV: 68.51, Liability Reversal (-) 6.11
												Inert Gas System for CCR & CER	169.08							
												Replacement of HP Heater No. 6 for Stage-I	313.94							
												1	252.48							
												CHLORINE LEAK DETECTION & ABSORPTION SYSTEM FOR CW SYSTEM STAGE-I	193.71							
												R&M of C&I System Package for Stage-I	721.72							
												R&M OF UNIT # 1 & 2 GENERATOR PROTECTION	46.50							
												REPLACEMENT OF STAGE-1 UNDERGROUND CLARIFIED WATER LINE WITH NEW ABOVE GROUND PIPE LINE	207.57							
										Total	**0.00**	**Total**	**2,056.38**							
2015-16	34.1	0		3350	21.3416	0	2635.0564					R&M of Control System for Stage-1 Ash Handling Plant	62.80	940.43		1728.73	186.1978247	1160.73	401.0837994	Decap of items Not Claimed:(-) 74.85, Decap (Loco)- (-) 167.84, Decap of Spares: (-) 559.28 Decap other than spares: (-) 38.77 Liability Rev.:(-), Cost Adjustment (Items not claimed) (-) 0.14, Loan ERV- 81.23
												R & M of Control System of CHP Stage-I Stacker Reclaimer & Wagon Tippler	43.00							
												R&M of C&I System Package for Stage-I	797.30							
												PLC based control Panel of DG Set of Stage-1	37.33							
								Total	**0.00**	**Total**	**0.00**	**Total**	**940.43**					3325.209149		
2016-17	0	0		3562.76	21.3416	0.00	2802.41					Modification of ESP for Stage-I	3512.75	3523.141957		-720.7319451	700.86	4224.001957	3805.18	Decap Disallowed:(-) 323.08, Decap of Spares: (-) 82.09 Decap other than spares: (-) 12.39, Loan ERV- (-) 1.25
												R&M of C&I System Package for	10.40							
								Total	**0.00**	**Total**	**0.00**	Total	3523.14							
2017-18	0	0		3788.98	21.3416	0.00	2980.35					Modification of ESP for Stage-I	4262.49	4318.940237		-1338.589193	594.71	4913.650237	4472.18	Decap Disallowed:(-) 390.49, Decap of Spares: (-) 47.58 Decap other than spares: (-) 1.38, Liability Reversal: (-) 2.03
												R&M of C&I System Package for St	56.45							
								Total	**0.00**	**Total**	**0.00**	Total	4318.94							
2018-19	0	0		4029.58	21.3416	0.00	3169.60					LED Electrification	422.79	536.6793121		2632.923843	1466.23	2002.909312	1588.85	Decap of Spares: (-) 119.55 Decap other than spares: (-) 300.33, IUT: 5.83
												MBOA Capitalisation	21.27							
												Domestic water supply Grid in township	47.26							
												OPC COMPLIANT SYSTEM	38.44							
												ASH DYKE PKG	0.20							
												R&M of C&I System Package for Stage-I	6.73							
								Total	**0.00**	**Total**	**0.00**	Total	536.68							

FY Year	Add-cap allowed by the Commission under the provision of Regulation 9(2)		Compensatory allowance allowed by the Commission, if any	Special allowance allowed by the Commission, if any	Income tax rate	Effective Compensatory allowance available for Expenditure	Effective Special allowance available for Expenditure	Details of Asset/Work wise Capitalisation based on the Expenditure allowed by the Commission in the tariff period 2019-24						Total Expenditure done under Special and Compensation Allowance	Capitalisation done which has not been claimed/ allowed in the tariff	Difference of Allowed vs Expenditure	Capital Spares	Total Addition during the year	Total Addition during the year as per duly audited Schedule of Fixed Asset	Variation if any to be reconciled /justified.
								Capitalisation out of add cap allowed under Regulation 9(2)		Capitalisation out of Compensation allowance in the stations wherever applicable		Capitalisation out of Special Allowance allowed in the stations where applicable								
	Net Basis	Liability included in			(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)-Gross	Asset/work	(Rs. lakh)	(Rs. Lakhs)						
1	2	3	4	5	6	7 = 4* 6	8 = 5 * 6	9		10		11		12=10+11	13	14=(2+3+7+8)-(9+12+13)	15	16=9+12+13+15	17	18
Details of expenditure incurred from Compensation Allowance and Special Allowance during Tariff Period 2019-24																				
2019-20	0	0		3990	17.47%	0.00	3292.87					Contineous Emmission Monitoring System (CEMS)	2.78	1750.685847		1542.181353	2304.145133	4054.83098	4440.41	Decap of Spares: (-) 141.32 Decap other than spares: (-) 4.79, IUT: 531.69
												Online coal analyzers Stage-1,2 & 3	687.23							
												LED Electrification	179.46							
												INTERCONNECT CONV BETWEEN STG I & 2 CHP	16.99							
												OPC COMPLIANT SYSTEM	7.65							
												R&M of Boiler	397.86							
												R&M of Coal Handling Plant	3.26							
												KL Bay Lift	34.78							
												Service Building Lift	36.62							
												MBOA Capitalization	384.06							
								Total	0.00	Total	0.00	Total	1750.69							
2020-21	0	0		3990	17.47%	0.00	3292.8672					RENOVATION OF DRINKING WATER LINES in township	65.97	726.3629059		2566.50	1483.446271	2209.809177	3488.73	Decap of Spares: (-) 38.42 Decap other than spares: (-) 44.55, IUT: 1361.9
												INTERCONNECT CONV BETWEEN STG I & 2 CHP	23.71							
												LAMP LED:COOL DAY 2-PIN:4FT:180-260V 18W	6.85							
												40W	1.25							
												LGHT FIXTR:LED BASD:WELL GLASS TYP-35W	101.12							
												35W	9.74							
												140W	79.08							
												210W	27.17							
												MBOA Capitalisation	411.47							
								Total	0.00	Total	0.00	Total	726.36							
2021-22	0	0		3990	17.47%	0.00	3292.8672							0		3292.8672		0		Decap of Spares: (-) Decap other than spares: (-) , IUT:

Annexure-V (C)

Name of Generating Station : Feroz Gandhi Unchahar Thermal Power Station
Stage: Stage-II
COD of Units/Station : 1.1.2001
Details of expenditure incurred from Compensation Allowance and Special Allowance during Tariff Period 2009-14

FY Year	Add-cap allowed by the Commission under the provision of Regulation 9(2)		Compensatory allowance allowed by the Commission, if any	Special allowance allowed by the Commission, if any	Income tax rate	Effective Compensatory allowance available for Expenditure	Effective Special allowance available for Expenditure	Details of Asset/Work wise Capitalisation based on the Expenditure allowed by the Commission in the tariff period 2009-14						Total Expenditure done under Special and Compensation Allowance	Capitalisation done which has not been claimed/ allowed in the tariff	Difference of Allowed vs Expenditure	Capital Spares	Total Addition during the year	Total Addition during the year as per duly audited Schedule of Fixed Asset	Variation if any to be reconciled /justified.
								Capitalisation out of add cap allowed under Regulation 9(2)		Capitalisation out of Compensation allowance in the stations wherever applicable		Capitalisation out of Special Allowance allowed in the stations where applicable								
	Net Basis	Liability Not included in (2)			(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)- Gross	Asset/work	(Rs. lakh)	(Rs. Lakhs)					
1	2	3	4	5	6	7 = 4* 6	8 = 5 * 6	9		10		11		12=10+11	13	14=(2+3+7+8)-(9+12+13)	15	16=9+12+13+15	17	18
2009-10	307.05	0.59	0.00	Nil	33.99	0.00		Ash Handling System	**207**	Solar water heater- 100 ltr (34 nos)	9.42			24.41		-24.41	400.96	733.01	-1678.44	Decap of MBOA: (-) 86.78 Decap Spares: (-) 100.7 FERV: (-) 2224.02
								Change in Law	**100**	Brick making machine	14.99								
								Total	**308**	**Total**	**24.41**	**0**	**0**							
2010-11	8.01	0.00	31.50	Nil	33.22	21.04		Ash Handling System	2.36	MBOA Items	28.04			62.46	2487	-2529	355	2913	2809	Decap of MBOA: (-) 86.78 Decap Spares: (-) 100.7 FERV: 2487.39 Liability Reversal: (-) 32.52
								Change in Law	5.65	Energy Management System (EMS)	34.42									
								Other Capital Works	0.00											
								Total	**8.01**	Total	**62.46**									
2011-12	0.00	0.00	63.00	Nil	32.45	42.56		Ash Handling System	**0.00**	Pro-control diagnostic station & Tool Kit STG	63.86			295.97	3664	-3917	235	3899	3808	Decap of Spares: (-) 75.32, Decap of MBOA: (-) 14.97, FERVs: 3367.79,
								Change in Law	**0.00**	SEWERAGE SYSTEM TOWNSHIP	217.43									
								Other Capital Works	**0.00**	ASH BRICK PLANT	14.68									
								Total	**0.00**	Total	**295.97**									
2012-13	702.79	5.06	63.00	Nil	32.45	42.56		Ash handling System	100.81	SEWERAGE SYSTEM TOWNSHIP	8.51			10.2		2.99	232.17	979.59	825.19	Decap of Spares: (-) 75.32, Decap of MBOA: (-) 14.97, FERVs: (-) 86.82,
								Change in Law	636.41	ASH BRICK PLANT	1.69									
								Total	**737.22**	Total	**10.2**									
2013-14	1.44	0.00	63.00	Nil	33.99	41.59		Ash handling System	1.44	Up-gradation of Human Machine Interface (HMI)	503.99			509.22	0	-467.63	368.5	1247.32	1139.65	Decap of Spares: (-) 105.75, Decap of MBOA: (-) 1.93, FERVs: 368.16
										SEWERAGE SYSTEM TOWNSHIP	5.23									
								Total	**1.44**	Total	**509.22**									

Details of expenditure incurred from Compensation Allowance and Special Allowance during Tariff Period 2014-19

FY Year	Add-cap allowed by the Commission under the provision of Regulation 14 (3)		Compensatory allowance allowed by the Commission, if any	Special allowance allowed by the Commission, if any	Income tax rate	Effective Compensatory allowance available for Expenditure	Effective Special allowance available for Expenditure	Details of Asset/Work wise Capitalisation based on the Expenditure allowed by the Commission in the tariff period 2009-						Total Expenditure done under Special and Compensation Allowance	Capitalisation done which has not been claimed/ allowed in the tariff	Difference of Allowed vs Expenditure	Capital Spares	Total Addition during the year	Total Addition during the year as per duly audited Schedule of Fixed Asset	Variation if any to be reconciled /justified.
								Capitalisation out of add cap allowed under Regulation 14 (3)		Capitalisation out of Compensation allowance in the stations wherever applicable		Capitalisation out of Special Allowance allowed in the stations where applicable								
	Net Cash Basis	Liability Not included in (2)			(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)- Gross	Asset/work	(Rs. lakh)	(Rs. Lakhs)					
1	2	3	4	5	6	7 = 4* 6	8 = 5 * 6	9		10		11		12=10+11	13	14=(2+3+7+8)-(9+12+13)	15	16=9+12+13+15	17	18
2014-15	162.76	39.79	84	Nil	20.9605	66.39	Nil	Ash related works	2.43	R&M OF HMI SYSTEM OF PROCONTROL P13/42 DDC MIS FOR STAGE-II	518.82			644.82	0.00	-657.68	310.77	1197.60	873.24	Decap of capital item: (-) 197.99, Decap of Spares: (-) 99.07, Decap of MBOA: (-) 27.32,
								Inert gas system for CCR & CER	239.58	RETROFITTING OF VOLTAS MAKE 6.6 KV SF6 CIRCUIT BREAKER with Vacuum circuit breaker of same ratings	70.09									
										200 TR Steam Driven Double Effect Vapour Absorption M/C for S-II AC Plant **(New Claim)**	55.91	...	...							
								Total	**242.01**		**644.82**	**0**	**0**							
2015-16	3.99	0.00	147	Nil	21.3416	115.63	Nil	Inert gas system for CCR & CER	3.99	RETROFITTING OF VOLTAS MAKE 6.6 KV SF6 CIRCUIT BREAKER with Vacuum circuit breaker of same ratings	98.52			98.52	**0.00**	-50.35	402.73	568.71	325.59	Decap of Spares: (-) 108.12, Decap of MBOA: (-) 139.00, Decap of Cap. item: (-) 20.15 Adjustment: (-) 5.98
								11KV DOUBLE CKT HT LINE(PKG.NO.035/2083)	67.46											
												...	...							
								Total	**71.45**		**98.52**	**0**	**0**							
2016-17	0.16	7.75	210	Nil	21.3416	165.18	Nil	Real Time Data Transmission to PCB	7.91					0.00	0.00	165.18	461.55	493.03	334.76	Decap of Spares: (-) 110.88, Decap of MBOA: (-) 7.64, Liability Reversal : (-) 0.30 Decap of Asset:(-)39.44
								11KV DOUBLE CKT HT LINE(PKG.NO.035/2083)	23.57											
								Total	**31.48**	**Total**		**0**	**0**							
2017-18	90.73	0.00	210	Nil	21.3416	165.18	Nil	111 kV double ckt line for AWRS of Arkha Ash Dyke.	4.24	6.6 KV Overhead Line for Pump House.	12.98			17.35	**0.00**	234.32	545.44	567.03	325.59	Decap of Spares: (-) 145.31, Decap of MBOA: (-) 0.04,
										Pump House over Peripheral Drain.	2.77									
										R&M of Human Machine Inter-face (HMI)	1.60	...	...							
								Total	**4.24**		**17.35**	**0**	**0**							
2018-19	0.00	7.75	210	Nil	21.3416	165.18	Nil			COLD FOG Dust Suppresion System for Secondary Crusher	10.15			288.18	901.64	-1024.64	750.11	1939.93	1868.35	Decap of Spares: (-) 59.02, Decap of MBOA: (-) 2.41,
										Interconnection of CHP Stage-I to Stage-II	278.03									
								Total	**0.00**	**Total**	**288.18**	**0**	**0**							

Annexure-V (C)

Name of Generating Station : Feroz Gandhi Unchahar Thermal Power Station
Stage: Stage-III
COD of Units/Station : 1.1.2007
Details of expenditure incurred from Compensation Allowance and Special Allowance during Tariff Period 2014-19

FY Year	Add-cap allowed by the Commission under the		Compensatory allowance allowed	Special allowance	Income tax rate	Effective Compensatory	Effective Special	Details of Asset/Work wise Capitalisation based on the Expenditure allowed by the Commission in the tariff period 2009–						Total Expenditure done under Special	Capitalisation done which has not been	Difference of Allowed vs	Capital Spares	Total Addition	Total Addition during the year	Variation if any to be reconciled /justified.
								Capitalisation out of add cap allowed under		Capitalisation out of Compensation allowance in		Capitalisation out of								
	Net Cash Basis	Liability Not included in (2)			(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)- Gross	Asset/work	(Rs. lakh)	(Rs. Lakhs)					
1	2	3	4	5	6	7 = 4* 6	8 = 5 * 6	9		10		11		12=10+11	13	14=(2+3+7+8)-(9+12+13)	15	16=9+12+13+15	17	18
2017-18	55.19	6.63	42	Nil	21.3416	33.04	Nil	Construction of 'D' type quarters	61.51					0.00	0.00	26.41	772.16	833.98	730.62	Decap of Spares: (-) 119.17, Decap of MBOA: (-) 5.04, IUT: 20.84
								Installation of CCTV cameras in Plant Premises	0.31										
												...	...							
								Total	**61.82**		**0.00**	**0**	**0**							
2018-19	0.42	0.27	42	Nil	21.3416	33.04	Nil	Effluent Quality Monitoring System	0.69	Procurement of T&P Items	19.93			19.98	0.00	13.06	546.33	567.00	41.81	Decap of Spares: (-) 419.02, Decap of MBOA: (-) 8.87, Laib. Reversal: (-) 65.83 Decap of Asset: (-) 25.20 IUT: (-) 6.27
										MBOA	0.05									
								Total	**0.69**	**Total**	**19.98**	**0**	**0**							

Annexure-VI (C)

DETAILS OF WATER CHARGES

Name of the Company: NTPC Ltd.

Name of the Power Station and Stage/Phase: Feroz Gandhi Unchahar Thermal Power Station (1550 MW)

(Rs. In Lakhs)

Sl.No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
(A)	**Plant**	Feroz Gandhi Unchahar Thermal Power Station (Non-Pit-head)				
1	Type of Plant	Coal Based Plant				
2	Type of Cooling Tower	Forced Draft				
3	Type of Cooling Water System	Closed Cycle				
4	Any Special Features which may increase/reduce water consumption					
(B)	**Quantum of Water : (Cubic Meter)**					
5	Contracted Quantum	105/600 Cusec	105/600 Cusec	105/600 Cusec	105/600 Cusec	105/600 Cusec
6	Allocation of Water	105/600 Cusec	105/600 Cusec	105/600 Cusec	105/600 Cusec	105/600 Cusec
7	Actual water Consumption	45814498.28	36938581.47	47482081.43	46781138.69	43176604.87
8.	Rate of Water Charges	Rs. 12.48/1000Cubic Feet +6 Lac per Cusec/Year	Rs. 12.48/1000Cubic Feet +6 Lac per Cusec/Year	Rs. 12.48/1000Cubic Feet +6 Lac per Cusec/Year	Rs. 12.48/1000Cubic Feet +6 Lac per Cusec/Year	Rs. 12.48/1000Cubic Feet +6 Lac per Cusec/Year
9	Other charges/Fees , if paid as part of Water Charges					
10	**Total water Charges Paid**	659.0	458.9	536.7	971.6	315.1

Annexure VI (D)

DETAILS OF OPERATIONS AND MAINTENANCE EXPENSES

Name of the Company:

Name of the Power Station or Transmission Region:

(Rs. In Lakhs)

Sl. No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
(A)	Details of Capital Spares in opening Stock	14825.6	19264.9	25200.0	29806.8	33761.3
	…					
(B)	Details of Capital Spares procured during the year	4751.04	6532.63	5365.16	4462.63	3804.89
(C)	Details of capital spares consumed during the year	311.718	597.598	758.284	508.186	621.450
	…					
(D)	Details of capital spares closing at the end of the	19264.937	25199.968	29806.845	33761.289	36944.729

Annexure-XIX

Name of Utility:	NTPC Ltd
Name of Generating Station:	Unchahar-I
Station Configuration:	2x210 MW
Capacity (MW):	420 MW
COD:	22.03.1989

S.N	Particulars	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	
1	Plant Availability Factor (PAF)	%	91.49	96.54	100.35	94.80	91.77	98.55	99.51	94.47	98.79	99.63	95.55	98.08	90.51	87.96	96.85	95.28	100.50	86.00	
2	Plant Load Factors (PLF)	%	90.86	96.26	99.65	94.67	91.17	97.37	94.38	89.25	92.67	87.87	83.29	77.60	73.07	70.40	72.88	60.16	48.18	52.53	
2a	Loading factor	%														76.26	76.94	67.29	66.31	71.34	
3	Scheduled Energy	MU	3028.06	3211.18	3324.10	3177.87	3054.00	3278.00	3154.00	2999.00	3136.00	2997.00	2931.00	2808.00	2580.00	2434.20	2507.71	2081.29	1618.41	1813.79	
4	Scheduled Generation	MU	3028.06	3211.18	3324.10	3177.87	3054.00	3278.00	3154.00	2999.00	3136.00	2997.00	2931.00	2808.00	2580.00	2434.20	2507.71	2081.29	1618.41	1813.79	
5	Actual Generation	MU	3067.40	3253.94	3359.62	3197.92	3081.08	3298.18	3190.19	3017.52	3124.88	2947.06	2787.47	2594.36	2426.42	2589.99	2681.37	2219.62	1772.64	1932.85	
	Actual Generation (ex-bus)															2337.21	2418.71	1981.37	1562.02	1707.28	
	Actual energy supplied to beneficiaries (Long Term, Medium Term and Short Term)		3028.1	3211.2	3324.1	3177.9	3054.0	3278.0	3154.0	2999.0	3136.0	2997.0	2931.0	2808.0	2580.0	2398.9	2446.9	2102.4	1659.7	1710.2	
6	Quantum of coal consumption	MT	2282600	2398955	2456367	2335401	2152972	2247645	2363494	2370712	2356140	2199130	2032616	1922182	1849033	1694742.8	1731745.4	1548700	1299793	1315746	
7	Value of coal	Rs. Lakh					41294	50707	57253	66050	79279	77674	74728	69611	72143	157487	199846	284416	185460	239966	For full capacity of 1550 MW
8	Specific Coal Consumption	kg/kWh	0.68	0.68	0.67	0.67	0.64	0.63	0.68	0.72	0.69	0.68	0.66	0.67	0.69	0.654	0.646	0.698	0.733	0.681	
9	Gross Calorific Value of Coal	(Kcal/ Kg)	3590.00	3587.00	3607.00	3584.00	3716.00	3805.00	3539.00	3348.00	3476.00	3550.00	3637.26	3622.17	3584.03	3759.67	3875.54	3594.98	3452.77	3709.64	
10	Heat Contribution of Coal	(Kcal/ kWh)	2451.34	2429.82	2416.69	2396.48	2393.28	2387.20	2408.72	2410.51	2402.05	2414.95	2412.58	2431.87	2464.93	2460.1	2503.0	2508.3	2531.7	2525.3	
11	Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)	TO BE LEFT BLANK																		
12	Quantum of Oil Consumption	(KL)	2126.05	1558.53	440.30	1201.20	1383.99	667.27	1634.71	3511.88	1968.10	1229.45	1448.91	834.88	755.47	816.535	975.867	4212.311	1624.44	4320.277	
13	Value of Oil	(Rs. lakh)														2156	2793	6302	3102	5112	For full capacity of 1550 MW
14	Gross calorific value of oil	(kcal/lit)	9986	9990	9990	9990	9990	9990	9990	9990	9990	9990	9600	9901	9669	9884.561642	9506.54	9642.07	9537.75	8168.67	
15	Specific Oil Consumption	(ml/kWh)	0.64	0.44	0.12	0.34	0.41	0.19	0.47	1.07	0.58	0.38	0.47	0.29	0.28	0.32	0.36	1.90	0.92	2.24	
16	Cost Of Specific Oil Consumption – Finally admitted by CERC	(Rs./kWh)	TO BE LEFT BLANK																		
17	Heat Contribution of Oil	(Kcal/ kWh)														3.12	3.46	18.30	8.74	18.26	
18	Station Heat Rate	(Kcal/ kWh)	2458.00	2434.22	2417.89	2399.92	2397.42	2389.06	2413.42	2421.17	2407.82	2418.75	2417.12	2434.76	2467.65	2463.2	2506.5	2526.6	2540.5	2543.5	
19	Auxiliary Energy Consumption	(%)	8.15	8.01	8.30	8.44	7.83	7.71	7.89	8.14	8.14	8.61	8.59	8.86	9.18	9.28	9.44	10.31	11.39	11.13	
20	Debt at the end of the year	(Rs. Crore)	0	0	0	0	1.3078	24.9018	20.5645	22.0909	16.8126	11.4587	6	0.611	0	0	0	0	0	0	
21	Equity - Average	(Rs. Crore)	472.6598	472.619	472.5497	474.0825	478.5827	480.5214	479.6642	480.5329	480.9278	479.9832	479.2056	478.7683	478.481	478.1224	477.3158	288.796	288.796	288.796	
22	Working Capital – finally admitted by CERC	(Rs. Crore)	142.40	139.98	141.54	143.55	145.37	224.44	226.18	228.67	230.58	233.37	316.05	321.13	321.45	330.94	333.81	294.09	295.86	297.87	
23	Capital cost – finally admitted by CERC	(Rs. Crore)	945.24	945.11	944.88	949.98	964.99	971.54	968.68	971.57	972.89	969.74	967.66	966.86	966.35	965.63	964.02	962.65	962.65	962.65	
24	Capacity Charges/ Annual Fixed Cost (AFC)	(Rs. Crore)	158.60	160.01	162.04	164.77	168.42	230.79	233.84	238.21	244.06	251.98	277.98	291.07	294.51	305.53	313.72	280.42	281.79	285.33	
	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009		TO BE LEFT BLANK																		

	Absolute value	(Rs. Crore)	66.17	66.17	66.16	66.37	67.00	112.83	111.33	110.25	110.34	112.70	93.97	94.34	94.28	94.21	94.31	54.24	54.24	54.24	
	Rate	(%)	0.14	0.14	0.14	0.14	0.14	0.23	0.23	0.23	0.23	0.23	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	
	(b) interest on Loan		TO BE LEFT BLANK																		
	Absolute value	(Rs. Crore)	0.12	-	-	-	0.02	0.69	0.42	0.53	0.65	0.62	0.58	0.24	0.02	0.00	0.00	0.00	0.00	0.00	
	Rate – Weighted Average Rate	(%)	0.06	0.06	0.08	0.06	0.02	0.03	0.02	0.03	0.03	0.04	0.07	0.07	0.07	0.07	0.08				
	(c) Depreciation (finally allowed by CERC)		TO BE LEFT BLANK																		
	Absolute value	(Rs. Crore)	33.2106	10.3178	10.3227	10.7435	12.1374	4.1499	4.3846	4.7699	5.2783	5.3599	5.4587	5.6278	5.5979	5.704	4.2936	1.8683	0	0	
	AAD																				
	Rate	(%)	SPREAD OVER																		
	(d) Interest on working Capital		TO BE LEFT BLANK																		
	Absolute value	(Rs. Crore)	14.5957	14.3478	14.5074	14.7142	14.9003	27.4933	27.7072	28.0118	28.2466	28.5877	42.6664	43.353	43.396	44.6774	45.0644	35.4376	33.2843	31.2764	
	Rate	(%)	10.250%	10.250%	10.250%	10.250%	10.250%	12.250%	12.250%	12.250%	12.250%	12.250%	13.500%	13.500%	13.500%	13.500%	13.500%	12.050%	11.250%	10.500%	
	(e) Operation and maintenance cost (finally admitted by CERC)		TO BE LEFT BLANK																		
	Absolute value	(Rs. Crore)	43.68	45.444	47.25	49.14	51.114	76.44	80.808	85.428	90.342	95.508	103.7993	114.0128	115.5796	123.0443	129.7576	148.9765	154.3638	159.9148	
	Rate	(%)	NOT APPLICABLE																		
	(f) Compensation Allowances	(Rs. Crore)						2.73	2.73	2.73	2.73	2.73									
	(g) Special Allowance	(Rs. Crore)	ORDER. INCASE										31.5	33.50	35.63	37.89	40.30	39.9	39.9	39.9	
	h) Supplementary Tariff - Emission Control		TO BE LEFT BLANK																		
	Absolute value	(Rs. Crore)	AS PER PETITION FILED BEFORE CERC. KINDLY INDICATE THE SAME IN FOOTER AS REMARKS																		
	Rate	(%)	NOT APPLICABLE																		
	i) Ash Utilisation Expenses	(Rs. Crore)															25.3723	20.28581032	39.26081419	28.08171484	
25	AFC	(Rs./ kWh)	0.591	0.596	0.603	0.614	0.627	0.811	0.822	0.837	0.858	0.885	0.984	1.016	1.049	1.074	1.102	0.985	0.990	1.003	
26	Energy Charge	(Rs./kWh)	1.114	1.181	1.297	1.334	1.562	1.672	1.876	2.282	2.639	2.727	2.796	2.702	2.928	2.756	2.926	3.566	3.058	3.277	
26.1	Supplemental Energy Charges - Emission	(Rs./kWh)	NOT APPLICABLE																		
27	Total tariff	(Rs. kWh)	1.704	1.777	1.900	1.947	2.189	2.483	2.697	3.119	3.497	3.613	3.780	3.718	3.976	3.830	4.028	4.551	4.048	4.280	
28	Revenue realisation before tax	(Rs. Crore)																			
29	Revenue realisation after tax	(Rs. Crore)																			
30	Profit/ loss	(Rs. Crore)	224.57	190.22	220.01	317.89	282.57	466.47	466.19	408.29	728.26	462.33	322.13	318.64	403.41	287.97	120.24	839.44	536.22	590.04	For full capacity of 1550
31	DSM Generation	(MU)	39.34	42.76	35.52	20.05	27.08	20.18	36.19	18.52	-11.12	-49.94	-143.53	-213.64	-153.58	-96.99	-89.00	-99.92	-56.39	-106.51	
32	DSM Rate	(Rs/kWh)																			
33	Revenue from DSM	(Rs. Crore)				-6.07	-8.76	-7.29	-12.16	-8.90	-3.07	2.88	22.16	37.84	26.00	19.8	21.67	11.57	14.34	15.15	
34	Compensation received for operation below NAPAF	(Rs Crore)														5.21	18.6	32.72	23	26.65	
35	Part load Compensation received from beneficiriaes	(Rs Crore)														5.21	18.6	28.22	22.03	26.65	
36	Amount received from SCED	(Rs Crore)														0	0	4.83	1.33	0.86	

DSM Revenue (-)Received / (+) Paid

2a Extra Row inserted .

Gross calorific value indicated for 2019-20,2020-21,2021-22 here after adjusting 85 kcal storage loss

Annexure-XIX

Name of Utility:	**NTPC Ltd**
Name of Generating Station:	**Unchahar- stage-II**
Station Configuration:	**2X210**
Capacity (MW):	**420**
COD:	**01.01.2001**

S.N	Particulars	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	
1	Plant Availability Factor (PAF)	%	93.05	94.77	92.93	100.10	98.41	95.81	100.36	93.23	100.07	100.22	96.02	101.12	100.00	96.54	95.97	98.69	95.27	93.59	
2	Plant Load Factors (PLF)	%	93.45	95.12	92.25	99.16	97.66	94.56	94.46	87.32	92.52	95.34	80.49	76.71	76.95	74.86	72.14	61.58	51.02	60.76	
2a	Loading factor	%														77.18	76.91	65.53	66.01	68.93	
3	Scheduled Energy	MU	3079.02	3147.88	3067.30	3336.04	3261.00	3168.00	3068.00	2887.00	3106.00	2902.00	2786.00	2753.00	2760.00	2587.46	2477.19	2115.94	1666.55	2152.85	
4	Scheduled Generation	MU	3079.02	3147.88	3067.30	3336.04	3261.25	3168.00	3068.00	2887.00	3106.00	2902.00	2786.00	2753.00	2760.00	2587.46	2477.19	2115.94	1666.55	2152.85	
5	Actual Generation	MU	3125.18	3190.06	3104.07	3355.24	3288.60	3193.09	3161.00	2940.67	3109.86	2875.23	2681.21	2555.72	2569.42	2754.34	2654.116	2271.964	1877.279	2235.42	
	Actual Generation (ex-bus)															2494.92	2401.08	2043.48	1668.48	1991.94	
	Actual energy supplied to beneficiaries (Long Term, Medium Term and Short	MU	3,079.02	3,147.88	3,067.30	3,336.04	3,261.00	3,168.00	3,068.00	2,887.00	3,106.00	2,902.00	2,786.00	2,753.00	2,760.00	2,546.36	2,434.60	2,150.46	1,765.27	2,106.45	
6	Quantum of coal consumption	MT	2307491	2335648	2240141	2420843	2307116	2199479	2329966	2308259	2357558	2148022	1955489	1882175	1930754	1795614.5	1702452.5	1580591	1373655.44	1526717	
7	Value of coal	Rs. Lakh					44250	49620	56441	64310	79326	75869	71893	68162	75331	157487	199846	284416	185460	239966	For full capacity of 1550 MW
8	Specific Coal Consumption	kg/kWh	0.67	0.67	0.66	0.66	0.64	0.63	0.67	0.72	0.69	0.68	0.66	0.67	0.68	0.652	0.641	0.696	0.732	0.683	
9	Gross Calorific Value of Coal	(Kcal/ Kg)	3638.00	3631.00	3636.00	3618.00	3706.00	3766.00	3574.00	3364.00	3467.00	3555.00	3651.73	3651.94	3586.11	3758.76	3887.65	3605.69	3452.82	3707.64	
10	Heat Contribution of Coal	(Kcal/ kWh)	2441.58	2423.22	2399.80	2394.26	2379.66	2380.95	2396.08	2410.51	2401.13	2410.07	2411.43	2428.91	2445.67	2450.417269	2493.68728	2508.456796	2526.518962	2532.195069	
11	Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)																			
12	Quantum of Oil Consumption	(KL)	800.91	989.85	1197.20	555.03	602.32	676.16	821.23	1521.71	794.17	1146.41	1364.33	580.35	486.11	618.214	1980.386	2474.16	2347.57	2173.811	
13	Value of Oil	(Rs. lakh)														2156	2793	6302	3102	5112	For full capacity of 1550 MW
14	Gross calorific value of oil	(kcal/lit)	9987	9990	9990	9990	9990	9990	9990	9990	9990	9990	9780	9775	9521	9680.11	9615.32	9638.80	9552.22	7548.367499	
15	Specific Oil Consumption	(ml/kWh)	0.23	0.28	0.35	0.15	0.17	0.19	0.24	0.47	0.23	0.36	0.46	0.21	0.17	0.22	0.75	1.09	1.25	0.97	
16	Cost Of Specific Oil Consumption – Finally admitted by CERC	(Rs./kWh)																			
17	Heat Contribution of Oil	(Kcal/ kWh)	2.56	3.10	3.85	1.65	1.83	2.12	2.60	5.17	2.55	3.98	4.98	2.22	1.80	2.17	7.17	10.50	11.95	7.34	
18	Station Heat Rate	(Kcal/ kWh)	2443.00	2426.05	2403.32	2395.77	2381.33	2382.90	2398.44	2415.23	2403.46	2413.68	2415.94	2430.91	2447.31	2452.6	2500.9	2519.0	2538.5	2539.5	
19	Auxiliary Energy Consumption	(%)	8.99	8.74	8.27	8.28	8.47	8.22	9.05	8.71	8.64	9.25	9.24	9.42	9.00	9.25	9.36	10.04	10.88	10.73	
20	Debt at the end of the year	(Rs. Crore)	469.89	431.43	387.51	335.68	282.78	215.06	145.27	75.58	11.05	-	-	-	-	-	-	-	-	-	
21	Equity - Average	(Rs. Crore)	389.71	389.71	389.71	389.71	389.71	389.77	389.98	389.93	390.94	391.63	391.70	391.51	391.39	391.32	391.18	391.39	391.76	391.83	
22	Working Capital – finally admitted by CERC	(Rs. Crore)	144.29	145.38	146.56	148.63	149.79	238.00	239.44	241.63	243.24	239.84	332.82	336.30	338.97	348.40	351.53	301.26	303.51	305.76	
23	Capital cost – finally admitted by CERC	(Rs. Crore)	1,299.04	1,299.04	1,299.04	1,299.04	1,299.04	1,299.22	1,299.93	1,299.75	1,303.15	1,305.45	1,305.68	1,305.05	1,304.63	1,304.39	1,303.92	1,304.64	1,305.86	1,306.09	
24	Capacity Charges/ Annual Fixed Cost (AFC)		177.10	176.46	173.83	173.00	186.70	279.49	280.72	283.20	287.31	258.11	259.96	268.08	275.67	283.46	290.85	294.21	298.22	302.36	
	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009																				
	Absolute value	(Rs. Crore)	54.56	54.56	54.56	54.56	54.56	91.52	90.51	89.46	89.70	91.96	76.81	77.15	77.12	77.11	77.29	73.51	73.58	73.59	
	Rate	(%)	14.00%	14.00%	14.00%	14.00%	14.00%	23.48%	23.21%	22.94%	22.94%	23.48%	19.61%	19.71%	19.71%	19.71%	19.76%	18.78%	18.78%	18.78%	
	(b) interest on Loan																				
	Absolute value	(Rs. Crore)	16.72	14.94	13.28	11.22	8.95	6.16	3.55	1.91	0.72	0.14	-	-	-	-	-	-	-	-	
	Rate – Weighted Average Rate	(%)	3.43%	3.32%	3.24%	3.10%	2.89%	2.48%	1.97%	1.73%	1.65%	2.53%	10.26%	9.62%	9.07%	8.03%	8.01%	8.26%	8.26%	8.26%	
	(c) Depreciation (finally allowed by CERC)																				
	Absolute value	(Rs. Crore)	48.24	48.24	48.24	48.24	48.24	69.75	69.73	69.69	69.66	34.03	34.08	34.18	34.19	34.17	34.26	34.43	34.63	34.68	
	AAD																				
	Rate	(%)	3.71%	3.71%	3.71%	3.71%	3.71%	5.99%	5.98%	5.98%	5.96%	Spread over useful life									
	(d) Interest on working Capital																				
	Absolute value	(Rs. Crore)	14.79	14.90	15.02	15.23	15.35	29.15	29.33	29.60	29.80	29.38	44.93	45.40	45.76	47.03	47.46	36.30	34.15	32.10	
	Rate	(%)	10.25%	10.25%	10.25%	10.25%	10.25%	12.25%	12.25%	12.25%	12.25%	12.25%	13.50%	13.50%	13.50%	13.50%	13.50%	12.05%	11.25%	10.50%	
	(e) Operation and maintenance cost (finally admitted by CERC)																				
	Absolute value	(Rs. Crore)	43.68	45.44	47.25	49.14	51.11	76.44	80.81	85.43	90.34	95.51	103.30	109.89	116.49	123.04	129.75	149.97	155.86	161.98	
	Rate	(%)											NA	NA	NA	NA	NA	NA	NA	NA	
	(f) Compensation Allowances	(Rs. Crore)	NA	NA	NA	NA	NA	NA	0.315	0.63	0.63	0.63	0.84	1.47	2.10	2.10	2.10	-	-	-	
	(g) Special Allowance		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	-	-	
	h) Supplementary Tariff - Emission																				
	Absolute value	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Rate	(%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	i) Ash Utilisation Expenses	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89.26	158.17	118.32	
25	AFC	(Rs./ kWh)	0.66	0.66	0.65	0.64	0.70	0.98	0.99	0.99	1.01	0.91	0.94	0.96	0.99	1.00	1.02	1.03	1.05	1.06	
26	Energy Charge	(Rs./kWh)	1.72	1.76	1.90	1.92	2.20	2.66	2.91	2.27	2.65	2.71	2.73	2.69	2.91	2.99	3.36	4.19	4.30	4.24	
26.1	Supplemental Energy Charges - Emission Control	(Rs./kWh)											-	-	-	-	-	-	-	-	
27	Total tariff	(Rs. kWh)	2.38	2.42	2.55	2.56	2.90	3.64	3.90	3.26	3.66	3.62	3.67	3.65	3.90	3.99	4.38	5.22	5.35	5.31	
28	Revenue realisation before tax	(Rs. Crore)																			
29	Revenue realisation after tax	(Rs. Crore)																			
30	Profit/ loss	(Rs. Crore)	224.57	190.22	220.01	317.89	282.57	466.47	466.19	408.29	728.26	462.33	322.13	318.64	403.41	287.97	120.24	839.44	536.22	590.04	For full capacity of 1550 MW
31	DSM Generation	(MU)	46.156	42.183	36.772	19.199	27.346	25.085	92.998	53.669	3.865	-26.769	-104.788	-197.282	-190.579	-92.54	-76.11	-72.46	1.93	-160.92	
32	DSM Rate	(Rs/kWh)																			
33	Revenue from DSM	(Rs. Crore)				11.3047	-12.983	-13.4853	-33.1496	24.6692	-6.1667	-0.8557	16.1	34.3	31.2	20.98	21.05	6.63	-0.14	1.7	
34	Compensation received for operation below NAPAF	(Rs Crore)														2.65	18.75	27.95	24.37	32.23	
35	Part load Compensation received from beneficiriaes	(Rs Crore)														2.65	18.75	23.44	22.29	29.19	
36	Amount received from SCED	(Rs Crore)														0	0	4.5	1.22	0.96	

Remarks:
DSM Revenue (-)Received / (+) Paid
2a Extra Row inserted .
Gross calorific value indicated for 2019-20,2020-21,2021-22 here after adjusting 85 kcal storage loss

Annexure-XIX

Name of Utility:	**NTPC Ltd**
Name of Generating Station:	**Unchahar- stage-III**
Station Configuration:	**1X210 MW**
Capacity (MW):	**210**
COD:	**01.01.2007**

S.N	Particulars	Unit	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	
1	Plant Availability Factor (PAF)	%	92.62	102.69	93.10	104.83	95.55	101.95	100.06	97.09	102.56	95.61	105.12	99.21	92.91	102.97	95.02	96.16	
2	Plant Load Factors (PLF)	%	53.99	100.79	91.60	102.78	88.72	95.70	93.17	82.20	86.75	71.57	80.10	75.16	67.57	64.98	57.16	66.06	
2a	Loading factor	%												76.19	74.86	65.76	62.75	69.20	
3	Scheduled Energy	MU	375.05	1710.43	1542.00	1730.00	1479.00	1599.00	1568.00	1388.00	1502.00	1292.00	1446.00	1313.72	1162.40	1126.11	943.51	1127.75	
4	Scheduled Generation	MU	375.05	1710.43	1541.06	1730.00	1479.00	1599.00	1568.00	1388.00	1502.00	1292.00	1446.00	1313.72	1162.40	1126.11	943.51	1127.75	
5	Actual Generation	MU	381.03	1731.93	1555.29	1745.17	1496.78	1620.42	1576.54	1512.63	1456.15	1202.10	1339.06	1382.695	1242.990	1198.672	1051.535	1215.166	
	Actual Generation (ex-bus)													1256.75	1126.63	1082.04	941.44	1094.02	
	Actual energy supplied to beneficiaries		375.0549	1710.426813	1542	1730	1479	1599	1568	1388	1502	1292	1446	1,273.78	1,126.48	1,112.59	991.00	1,109.60	
6	Quantum of coal consumption	MT	272626	1231626	1077508	1190349	1091588	1266178	1185609	1024538	1052386	877004	1001171	901849.7	794239.3	831208	772522.1	819833.5	
7	Value of coal	Rs. Lakh			20667	26854	26443	35277	39893	36187	38690	31760	39062	157487	199846	284416	185460	239966	For full capacity of 1550 MW
8	Specific Coal Consumption	kg/kWh	0.67	0.66	0.64	0.63	0.67	0.72	0.69	0.68	0.66	0.66	0.68	0.652	0.639	0.693	0.735	0.675	
9	Gross Calorific Value of Coal	(Kcal/ Kg)	3575.00	3587.00	3713.00	3769.00	3569.00	3358.00	3466.00	3549.00	3655.00	3634.07	3593.26	3763.34	3867.71	3602.19	3473.58	3718.28	
10	Heat Contribution of Coal	(Kcal/ kWh)	2395.23	2376.15	2374.33	2372.77	2386.98	2408.50	2397.48	2404.56	2410.35	2414.23	2441.39	2454.6	2471.4	2497.9	2551.9	2508.6	
11	Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)																	
12	Quantum of Oil Consumption	(KL)	411.86	381.87	366.59	223.22	351.32	1246.48	691.25	698.18	323.75	366.81	52.97	201.1	814.679	1150.462	536.89	1632.13	
13	Value of Oil	(Rs. lakh)												2156	2793	6302	3102	5112	For full capacity of 1550 MW
14	Gross calorific value of oil	(kcal/lit)	9990	9990	9990	9990	9990	9990	9990	9990	9623	9894	9604	9447.40	9758.82	9636.21	9551.96	8341.04	
15	Specific Oil Consumption	(ml/kWh)	1.01	0.21	0.22	0.12	0.22	0.71	0.40	0.46	0.20	0.28	0.04	0.15	0.66	0.96	0.51	1.34	
16	Cost Of Specific Oil Consumption – Finally admitted by CERC	(Rs./kWh)																	
17	Heat Contribution of Oil	(Kcal/ kWh)	10.80	2.20	2.35	1.28	2.34	7.68	4.38	4.61	2.14	3.02	0.38	1.37	6.40	9.25	4.88	11.20	
18	Station Heat Rate	(Kcal/ kWh)	2405.34	2378.20	2376.50	2373.95	2389.13	2415.56	2401.51	2409.17	2412.30	2416.98	2441.74	2456	2478	2507	2560	2521	
19	Auxiliary Energy Consumption	(%)	6.36	6.85	7.70	7.70	8.29	8.21	8.02	8.59	8.55	8.65	8.83	9.11	9.36	9.73	10.47	9.97	
20	Debt at the end of the year	(Rs. Crore)	571.49	569.38	533.70	469.79	426.19	382.87	337.76	293.37	250.13	205.05	165.88	122.14	75.50	55.75	35.99	16.24	
21	Equity - Average	(Rs. Crore)	245.24	255.98	266.78	259.88	260.84	261.53	261.90	262.10	262.83	263.35	264.84	266.80	266.66	266.04	266.04	266.04	
22	Working Capital – finally admitted by CERC	(Rs. Crore)	92.45	93.46	97.50	129.19	129.60	130.41	130.63	131.40	169.75	171.13	171.71	176.07	176.97	153.06	153.85	154.61	
23	Capital cost – finally admitted by CERC	(Rs. Crore)	817.46	853.25	889.26	866.25	869.46	871.77	873.02	873.65	876.09	877.82	882.79	889.32	888.87	886.81	886.81	886.81	
24	Capacity Charges/ Annual Fixed Cost (AFC)		149.12	151.06	171.04	202.79	201.50	201.05	199.57	199.80	194.07	195.11	195.30	197.50	197.27	168.98	168.73	168.50	
	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009																		
	Absolute value	(Rs. Crore)	34.33	35.84	37.35	61.02	60.54	60.01	60.09	61.54	51.54	51.89	52.19	52.57	52.69	49.97	49.97	49.97	
	Rate	(%)	14.00%	14.00%	14.00%	23.48%	23.21%	22.94%	22.94%	23.48%	19.61%	19.71%	19.71%	19.71%	19.76%	18.78%	18.78%	18.78%	
	(b) interest on Loan																		
	Absolute value	(Rs. Crore)	44.86	44.17	44.14	39.74	36.41	33.90	29.81	25.79	22.45	19.18	16.25	13.01	9.24	6.32	4.51	2.58	
	Rate – Weighted Average Rate	(%)	7.90%	7.74%	8.00%	8.10%	8.13%	8.38%	8.27%	8.17%	8.26%	8.43%	8.76%	9.04%	9.35%	9.63%	9.84%	9.89%	
	(c) Depreciation (finally allowed by CERC)																		
	Absolute value	(Rs. Crore)	36.3608	35.504	52.6951	44.749	45.0386	45.2098	45.2651	45.3808	45.59	45.67	45.89	46.20	46.18	19.76	19.76	19.76	
	AAD																		
	Rate	(%)	3.56%	3.56%	3.56%	5.17%	5.18%	5.19%	5.18%	5.19%	5.20%	5.20%	5.20%	5.19%	5.19%		Spread Over		
	(d) Interest on working Capital																		
	Absolute value	(Rs. Crore)	9.4766	9.5799	9.9933	15.8261	15.8756	15.9749	16.0016	16.096	22.92	23.10	23.18	23.77	23.89	18.44	17.31	16.23	
	Rate	(%)	10.25%	10.25%	10.25%	12.25%	12.25%	12.25%	12.25%	12.25%	13.50%	13.50%	13.50%	13.50%	13.50%	12.05%	11.25%	10.50%	
	(e) Operation and maintenance cost (finally admitted by CERC)																		
	Absolute value	(Rs. Crore)	23.625	24.57	25.557	38.22	40.404	42.714	45.171	47.75	51.58	55.25	57.79	61.52	64.85	74.49	77.18	79.96	
	Rate	(%)																	
	(f) Compensation Allowances	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42	0.42	NA	NA	NA	
	(g) Special Allowance	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	h) Supplementary Tariff - Emission																		
	Absolute value	(Rs. Crore)																	
	Rate	(%)																	
	i) Ash Utilisation Expenses	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	89.26	158.17	118.32	
25	AFC	(Rs./ kWh)	1.11	1.13	1.28	1.43	1.42	1.41	1.40	1.40	1.38	1.38	1.39	1.39	1.39	1.18	1.19	1.18	
26	Energy Charge	(Rs./kWh)	1.32	1.34	1.56	1.68	1.85	2.26	2.64	2.69	2.73	2.66	2.91	2.94	3.51	4.14	4.24	4.05	
26.1	Supplemental Energy Charges - Emission Control	(Rs./kWh)																	
27	Total tariff	(Rs. kWh)	2.43	2.46	2.84	3.10	3.27	3.68	4.04	4.09	4.11	4.04	4.30	4.33	4.90	5.32	5.42	5.24	
28	Revenue realisation before tax	(Rs. Crore)																	
29	Revenue realisation after tax	(Rs. Crore)																	
30	Profit/ loss	(Rs. Crore)	220.0	317.9	282.6	466.5	466.2	408.3	728.3	462.3	322.1	318.6	403.4	288.0	120.2	839.4	536.2	590.0	For full capacity of 1550 MW
31	DSM Generation	(MU)	6.0	21.5	14.2	15.2	17.8	21.4	8.5	124.6	-45.8	-89.9	-106.9	-57.0	-35.8	-44.1	-2.1	-33.7	
32	DSM Rate	(Rs/kWh)																	
33	Revenue from DSM	(Rs. Crore)							-4.66	-0.79	5.92	14.68	16.97	11.55	8.6	4.57	2.38	3.65	

34	Compensation received for operation below NAPAF	(Rs Crore)												0.56	7.55	15.13	20.28	16.98
35	Part load Compensation received from beneficiriaes	(Rs Crore)												0.56	7.55	13.73	17.54	16.58
36	Amount received from SCED	(Rs Crore)												0	0	2.44	0.74	0.53

Remarks:

DSM Revenue (-)Received / (+) Paid

2a Extra Row inserted .

Gross calorific value indicated for 2019-20,2020-21,2021-22 here after adjusting 85 kcal storage loss

Annexure-XIX

	Name of Utility:	**NTPC Ltd**						
	Name of Generating Station:	**Unchahar Stage-IV**						
	Station Configuration:	**1x500**						
	Capacity (MW):	**500**						
	COD:	**30.09.2017**						
S.N	**Particulars**	**Unit**	**2017-18 (30.09.2017 to 31.03.2018)**	**2018-19**	**2019-20**	**2020-21**	**2021-22**	
1	Plant Availability Factor (PAF)	%	14.34	22.16	95.63	88.49	90.01	
2	Plant Load Factors (PLF)	%	12.35	15.13	64.58	56.06	65.28	
2a	Loading factor	%	71.31	65.31	70.04	66.01	72.82	
3	Scheduled Energy	MU	262.24	616.43	2659.40	2306.70	2754.66	
4	Scheduled Generation	MU	262.24	616.43	2659.40	2306.70	2754.66	
5	Actual Generation	MU	271.11	662.52	2836.35	2455.32	2859.19	
	Actual Generation (ex-bus)	MU	252.43	611.49	2604.28	2289.37	2677.91	
	Actual energy supplied to beneficiaries (Long Term, Medium Term and Short Term)	MU	257.90	613.01	2468.72	2311.67	2572.63	
6	Quantum of coal consumption	MT	176558	417676	1908106	1733999	1865539	
7	Value of coal	Rs. Lakh	157487	199846	284416	185460	239966	For full capacity of 1550 MW
8	Specific Coal Consumption	kg/kWh	0.651	0.630	0.673	0.708	0.654	
9	Gross Calorific Value of Coal	(Kcal/ Kg)	3674.65	3756.80	3603.29	3474.47	3708.94	
10	Heat Contribution of Coal	(Kcal/ kWh)	2393.04	2368.42	2424.05	2453.74	2419.97	
11	Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)						
12	Quantum of Oil Consumption	(KL)	431.63	2935.82	3397.96	1687.48	1242.10	
13	Value of Oil	(Rs. lakh)	2156	2793	6302	3102	5112	For full capacity of 1550 MW
14	Gross calorific value of oil	(kcal/lit)	7253.80	9659.15	9645.52	9562.14	8889.39	
15	Specific Oil Consumption	(ml/kWh)	1.59	4.43	1.20	0.69	0.43	
16	Cost Of Specific Oil Consumption – Finally admitted by CERC	(Rs./kWh)						
17	Heat Contribution of Oil	(Kcal/ kWh)	11.55	42.80	11.56	6.57	3.86	
18	Station Heat Rate	(Kcal/ kWh)	2405	2411	2436	2465	2427	
19	Auxiliary Energy Consumption	(%)	6.86	7.77	6.37	6.71	6.24	
20	Debt at the end of the year	(Rs. Crore)	1622.69	1584.96	1616.00	1532.76	1384.00	
21	Equity - Average	(Rs. Crore)	711.87	743.09	800.46	852.23	868.04	
22	Working Capital – finally admitted by CERC	(Rs. Crore)	417.06	422.01	358.78	362.88	364.48	
23	Capital cost – finally admitted by CERC	(Rs. Crore)	2372.88	2476.98	2668.21	2840.76	2893.47	
24	Capacity Charges/ Annual Fixed Cost (AFC)		525.10	543.73	572.04	591.89	592.31	
	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009		0.00	0.00	0.00	0.00	0.00	
	Absolute value	(Rs. Crore)	140.27	146.82	150.34	160.07	163.04	
	Rate	(%)	0.21	0.22	0.19	0.19	0.19	
	(b) interest on Loan							

	Absolute value	(Rs. Crore)	108.32	108.80	110.73	108.90	100.67	
	Rate – Weighted Average Rate	(%)	0.07	0.07	0.07	0.07	0.07	
	(c) Depreciation (finally allowed by CERC)							
	Absolute value	(Rs. Crore)	127.66	132.15	142.29	151.49	154.30	
	AAD							
	Rate	(%)	0.05	0.05	0.05	0.05	0.05	
	(d) Interest on working Capital							
	Absolute value	(Rs. Crore)	52.55	53.17	43.23	40.82	38.27	
	Rate	(%)	0.14	0.14	0.12	0.11	0.11	
	(e) Operation and maintenance cost (finally admitted by CERC)							
	Absolute value	(Rs. Crore)	96.30	102.79	125.45	130.61	136.05	
	Rate	(%)						
	(f) Compensation Allowances		NA	NA	NA	NA	NA	
	(g) Special Allowance		NA	NA	NA	NA	NA	
	h) Supplementary Tariff - Emission Control							
	Absolute value	(Rs. Crore)						
	Rate	(%)						
	i) Ash Utilisation Expenses	(Rs. Crore)						
25	AFC	(Rs./ kWh)	1.99	3.10	2.55	3.27	2.75	
26	Energy Charge	(Rs./kWh)	2.41	2.80	3.42	2.93	3.10	
26.1	Supplemental Energy Charges - Emission Control	(Rs./kWh)						
27	Total tariff	(Rs. kWh)	4.40	5.90	5.97	6.20	5.85	
28	Revenue realisation before tax	(Rs. Crore)						
29	Revenue realisation after tax	(Rs. Crore)						
30	Profit/ loss	(Rs. Crore)	287.97	120.24	839.44	536.22	590.04	For full capacity of 1550 MW
31	DSM Generation	(MU)	-9.73	-5.39	-3.64	-16.03	-73.88	
32	DSM Rate	(Rs/kWh)						
33	Revenue from DSM	(Rs. Crore)	-4.06	9.13	13.69	5.01	6.10	
34	Compensation received for operation below NAPAF	(Rs Crore)	0.00	12.26	29.37	31.25	22.67	
35	Part load Compensation received from beneficiriaes	(Rs Crore)	0.00	12.26	29.37	29.94	22.67	
36	Amount received from SCED	(Rs Crore)	0.00	0.00	6.73	2.00	1.58	

DSM Revenue (-)Received / (+) Paid

2a Extra Row inserted .

Gross calorific value indicated for 2019-20,2020-21,2021-22 here after adjusting 85 kcal storage loss

Annexure-XXII

Generating company: NTPC Ltd
Name of Generating station: Feroz Gandhi Unchahar Thermal Power Station Stage-IV
(Non-Pit-head) Installed Capacity (MW) : 500 MW

Type of Emission Control System:

Under Operation/Anticipated Operation Date:

S.No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
A							
1	Gross Generation	MU					
2	Auxiliary Consumption - emission control	MU	ECS system under installation.				
	Auxiliary Consumption - emission control	%					
3	Auxiliary Consumption (Normative)	%					
4	Hours of Operation	Hrs					
5	O&M Expenses (Actual) with Breakup as per format	Rs. Crore					
6	Other maintenace spares consumed^	Rs. Crore					
7	Initial Spares consumed*	Rs. Crore					

Pls. Note: Where the system is yet not operational guaranteed parameter along with spares cost as per awarded contract to be furnished
* Not part of O&M expenses and Pls specify list of the same

S.No.	Particulars	Units	Unchahar Stg-I, II & III		Unchahar Stg-IV							
			Investment Approval	Approved*	Investment Approval	Approved*	Investment Approval	Approved*	Investment Approval	Approved*	Investment Approval	Approved*
1	Capital Cost of Emission Control System											
1.1	Hard Cost	Rs. Crore	814.2		356.95							
1.1.1	Civil Works	Rs. Crore	Incl Above		Incl Above							
1.1.2	Plant and Machinery and others	Rs. Crore	Incl Above		Incl Above							
1.1.3	Initial Spares procured	Rs. Crore	Incl Above		Incl Above							
1.2	IDC	Rs. Crore	75.33		30.72							
1.3	IEDC	Rs. Crore	24.43		10.7							
1.4	Others. Pls specify	Rs. Crore										
1.4	Completed Cost	Rs. Crore	913.96		398.37							

Note - Investment approval was taken based on total bid price including GST and hence Plant & Machinery , Civil and Initial spare cost included in hard cost shown above

* Wherever cost is yet to be approved by CERC and for which petition has been filed the actual claimed shall be submitted.
* Where the work is still under execution utility to submit the details of awarded cost