

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	
1	Name of Company		NTPC Ltd.						
2	Name of Station/ Pit head or Non- Pit head		Farakka Super Thermal Power Station Stage-I&II Pit-Head						
	Stage		2 stagees and Commercially one Stage						
3	Installed Capacity and Configuration	MW	3X200 + 2 X 500 = 1600 MW						
3.1	Date of Commercial Operation - Unit Wise		U-I - 01.11.1986, U-II - 01.10.1987, U-III - 01.09.1988, U-IV - 01.07.1996, U-V - 01.04.1995						
3.2	Effective COD		01.01.1996						
	Make of Turbine		BHEL						
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)		Stage-I : CE Boiler; KWU Turbine / 150 Ksc, 535 Deg C Stage-II : B&W Boiler and KWU Turbine/ 170kc , 537 Deg C						
5	Type of BFP		Stage-I - Electric Driven Stage-II -Steam Driven						
	Quantity		Stage-1: 3 x 3 MDBFP, Stage-2: 2 x 2 TDBFP + 2 x 1 MDBFP						
6	Circulating water system		Open cycle Circulating water system						
7	Any other Site specific feature								
	Design Unit heat rate	Kcal/Kwh	Stage-1: 2318 , Stage-2: 2267						
	Design Boiler efficiency	%	Stage-1:, 85.19 Stage-2: 87.11						
	Design Turbine cycle heat rate	Kcal/Kwh	Stage-1:, 1975 Stage-2: 1984						
8	Fuels :							For 2100 MW Station	
8.1	Primary Fuel :		Coal						
8.1.1	Annual Allocation under FSA	MT	93.52 LMT						
	Annual Consumption	MT	6595928	7241526.2	7184979	6036976	6034848		
	Annual Requirement at NAPAF	MT	7595486	7588260	8234922	8092541	7661299		
8.1.2	Sources of supply/ procurement along with contracted		ECL (G4-G6), BCCL (W-IV,W-V), ECL(RAJMAHAL) (G13,G14)					For 2100 MW Station	
8.1.2.1	FSA	LoA	8178337	9591243	9535253	7815503	6291142		
		MoU	299528	171581					
8.1.2.2	Imported*	MT		NO FSA					
8.1.2.	Spot Market/e-auction*	MT	NO E-AUCTION						
8.1.3	Transportation Distance of the station from the sources of supply	KM	ECL-MGR: 84 KM, ECL Rail: 172-260KM, BCCL: 307 KM						
8.1.4	Mode of Transport		INDIAN Rail/Road/MGR						

8.1.5	Maximum Station capability to stock primary fuel (for days consider availability as NAPAF)	Days & MT	600000 & 23 days					
8.1.6	Maximum stock maintained for primary fuel	MT	475683	417130.33	620083.6	905636	477103	
	Date		12-04-2017	16-05-2018	31-03-2020	19-06-2020	12-04-2021	
8.1.7	Minimum Stock maintained for primary fuel	MT	0	0	12029	385968	2566	
	Date		02-11-2017	19-09-2018	01-11-2019	13-03-2021	19-10-2021	
8.1.8	Average stock maintained for primary fuel	MT	114000	113000	236000	630000	166000	
8.2	Secondary Fuel :							
8.2.1	Annual Allocation/ Requirement	KL	9198					
8.2.2	Sources of supply		IOCL					
8.2.3	Transportation Distance of the station from the sources of supply	KM	500					
8.2.4	Mode of Transport		Rail					
8.2.5	Maximum Station capability to stock secondary fuels	KL	11500					
8.2.6	Maximum Stock of secondary oil actually maintained	KL	7796					
8.2.7	Minimum Stock of secondary oil actually maintained	KL	1052					
8.2.8	Average Stock of secondary oil actually maintained	KL	5456					
9.	Cost of Spares :							
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	6552.86	4434.78	5831.91	6705.47	5922.33	For Full 2100 MW Station capacity.
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)	8675.00	7073.80	7979.86	6684.63	6022.55	For Full 2100 MW Station capacity.
9.5	Other spares procured with high lead procurement time	(Rs. Lakh)	6365.85	8233.22	4358.37	1965.2	1153.41	For Full 2100 MW Station capacity.
10	Generation :							
10.1	-Actual Gross Generation at generator terminals	MU	10229.45	11264.02	10320.79	8754.83	9269.88	
10.2	-Actual Net Generation Ex-bus	MU	9457.99	10472.43	9490.56	8019.21	8462.41	
10.3	-Scheduled Generation Ex-bus	MU	9610.68	10611.73	9691.82	8133.82	8520.60	
11	Average Declared Capacity (DC)	MW	1250.73	1312.06	1207.85	1403.86	1248.88	
	DC Peak HD %	%				96.57	84.39	
	DC Off Peak HD %	%				97.10	84.52	
	DC Peak LD %	%				93.00	84.15	
	DC Off Peak LD %	%				93.18	83.34	
	Actual Declared Capacity	MU	10956.44	11493.68	10609.77	12297.78	10940.20	
	Deemed Declared Capacity	MU	10956.44	11493.68	10609.77	12297.78	10940.20	
12	Actual Auxiliary Energy Consumption excluding colony	MU	755.06	776.07	815.61	721.62	794.47	
13	Actual Energy supplied to Colony from the station	MU	16.406	15.524	14.626	14.003	13.007	
	Actual energy supplied to construction activities	MU				0.207	0.207	
	Actual energy supplied to long term and medium term beneficiaries	MU	9610.68	10611.73	9691.82	8133.82	8520.60	
	Actual energy supplied in short term							
	Energy supplied under bilateral arrangements							
	Energy supplied through excahnges							
	Energy supplied under DSM	MU	-152.69	-139.30	-201.26	-114.61	-58.19	
	Energy supplied SCED							
14	Primary Fuel :							

14.1	Consumption :								
14.1.1	Domestic coal	From Linked Mines	MT	6344125	7101777.12	7184979	6036976	6019518	
		From Non-Linkd Mines	MT						
		From Integerated Mines	MT						
14.1.2	Imported coal		MT	251803	139749.1	0	0	15330	
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		4755	4759	4739	5205	
		(As Received) - TM Basis as	kCal/kg		3796	3612	3601	3894	
14.2.2	Imported Coal	(As Billed) - ADB Basis	kCal/kg		5648			5022	
		(As Received) - ADB Basis	kCal/kg		4646			5022	
14.2.3	Spot market/e- auction coal	(As Billed)	kCal/kg	NA	NA	NA	NA	NA	
		(As Received)	kCal/kg	NA	NA	NA	NA	NA	
14.2.4	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Billed)		kCal/kg		4771	4759	4739	5204	
14.2.5	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Received)		kCal/kg		3821	3612	3610	3913	
	Ash content in coal (%)		%	34.4	31.6	33.4	34.6	34.4	
14.3	Price of coal :								
	Billed Cost (including adjustments)								
	Amount Charged by transporting agency upto delivery point								
14.3.1	Weighted Average Landed price of Domestic coal		(Rs/MT)		3851.5	3357.9	3581.9	4238.6	
	Components of landed cost and break up								
	1. Cost of coal,		(Rs/MT)		3423.8	3281.4	3118.5	3492.7	
	2. Transportation		(Rs/MT)		378.4	30.0	403.4	699.7	
	3. Other charges		(Rs/MT)		49.3	46.5	60.0	46.2	
14.3.2	Weighted Average Landed Price of Imported coal		(Rs/MT)		6712.0	0.0	0.0	14187.0	
	Components of landed cost and break up								
14.3.3	Weighted Average Landed Price of Spot market / e-auction coal		(Rs/MT)		NA	NA	NA	NA	
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the Coals		(Rs/MT)		3902.1	3358	3582	4277	
14.4	Blending :		% and MT (of the total coal consumed)						
	Blending ratio of imported coal with domestic coal		Equivalent to domestic coal	3.82	1.93	0.00	0.00	0.25	
14.4.2	Proportion of e-auction coal in the blending		% & MT	NA	NA	NA	NA	NA	
	Coal stockyard capacity		MT		600000 MT				Common for both stages

14.5	Actual daily Average Coal stock maintained		MT	114000	113000	236000	630000	166000	
			Days	4	4	8	22	6	
14.5	Actual Transit & Handling Losses for coal/Lignite								
14.5.1	Pit- Head Station								
14.5.1.1	Transit loss from linked mines		%	0.76	0.69	0.58	1.68	1.47	Common for both stages
14.5.1.2	Transit loss from non-linked mines including e-auction coal mines.		%	0.69	0.71	0.08	NA	NA	
14.5.1.3	Transit loss of imported coal		%	NA	NA	NA	NA	NA	
14.5.2	Non-Pit Head station								
14.5.2.1	Transit loss from linked mines		%						
14.5.2.2	Transit loss from non-linked mines including e-auction coal mines.		%				NA		
14.5.2.3	Transit loss of imported coal		%						
15	Secondary Fuel Oil :								
15.1	Consumption	HFO	KL	13003	6436	10272.7	8151.5	12889	
		HSD	KL	0	0	0	0	0	
15.2	Weighted Average Gross Calorific value (As received)	HFO	(kCal / Lit.)	9711	9808	9813	9819	9795	
		HSD	(kCal / Lit.)	0	0	0	0	0	
15.3	Weighted Average Price	HFO	(Rs / KL)		38257.6	39835.2	32651.4	51471.0	
		HSD	(Rs / KL)		58964.4	58964.4	58964.4	58964.4	
15.4	Actual Average stock maintained	HFO	KL	5937	6086	4017	5533	5705	
		HSD	KL	0	0	0	0	0	
16	Weighted average duration of outages(unit-wise details):								
16.1	Planned Outages		(Days)	24.5	18.7	20.3	16.2	35.2	
16.2	Forced Outages		(Days)	11.52	13.98	12.72	11.05	9.60	
	Within control of generator		(Days)	0.1	0.5	0.0	0.06	0.1	
	beyond control of generator		(Days)	11.43	13.52	12.72	10.99	9.50	
16.3	Number of tripping		Nos.	33	35	28	19	30	
16.4	Number of start-ups:		Nos.	58	54	51	37	52	
16.4.1	Cold Start-up		Nos.	18	21	23	22	22	
16.4.2	Warm Start-up		Nos.	14	7	9	3	13	
16.4.3	Hot start-up		Nos.	26	26	19	12	17	
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						
	Actual emission (Stage-II)	SPM	mg/Nm ³						
		NOX	mg/Nm ³						
		SOX	mg/Nm ³						
	Ash dyke capacity as on 31st March		Lakh M3						
	Ash pond capacity as on 31st March		MT						
	Fund available in Ash Fund Account as on 31st March		(Rs. Lakh)						
	Amount utilized from Ash Fund Account		(Rs. Lakh)						

	Ash available as on 31st March		LMT	30.19	31.34	31.81	28.25	27.88	For the Station (2100 MW)
	Ash utilized for construction of ash dyke		LMT	0.96	7.56	0.58	0	0	
	Ash utilized within plant premise, other than construction of ash dyke		LMT	0.04	0.04	0.03	0.04	0.01	
	Ash transported		LMT	1.49	0.8	29.19	25.41	27.36	
	Average Distance		km	150	150	150	150	150	
19	Detail of Ash utilization % of fly ash produced		(%)	53.01	80.14	127.79	127.96	137.12	For the Station (2100 MW)
19.1	Conversion of value added product		(%)	36.24	43.73	10.16	13.35	10.26	
19.2	For making roads &embarkment		(%)	4.92	2.55	91.77	89.95	98.13	
19.3	Land filling		(%)	0.13	0.12	14.23	14.69	0.00	
19.4	Used in plant site in one or other form or used in some other site		(%)	3.18	24.11	1.84	0.00	0.00	
19.5	Any other use , Please specify		(%)	8.53	9.63	9.79	9.98	28.73	
20	Cost of spares actually consumed		(Rs. Lakh)	449	63.71			913	
21	Average stock of spares		(Rs. Lakhs)	30545	31970	33002	33282	34386	For the station 2100 MW
22	Number of employees deployed in O&M		Nos.						
22.1	- Executives		Nos.	392	366	355	327	311	Manpower at the last day of FY. For the station 2100 MW
22.2	- Non Executives		Nos.	655	590	533	485	393	
22.3	- Corporate office		Nos.	2568	2241	2016	1815	1728	
23	Man-MW ratio		Man/MW	0.50	0.46	0.42	0.39	0.34	
	Total billed amount								
	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		Switchyard is common.						
	No. of Bays voltagewise								
	Voltage rating	Total bays							
	400kV	43							
	220kV	4							
	ICT - nos and rating								
	Voltage	MVA	Qty						
	400/33kV	125	2						
	400/33kV	100	1						
	400/220kV	315	2						
	Dedicated transmission line - voltage and length								
	Circuit Name			Voltage(kV)	Length (km)				
	400 KV D/C Farakka Berhampore Ckt 1 TL			400	82				
	400 KV D/C Farakka Berhampore Ckt 2 TL			400	82				
	400 KV D/C Farakka Kahalgaon-1 TL			400	95				
	400 KV D/C Farakka Kahalgaon-2 TL			400	95				
	400 KV S/C Farakka Sagardighi 1 TL			400	68				
	400 KV S/C Farakka Sagardighi 2 TL			400	73.5				
	400 KV D/C Farakka-Malda Ckt 1 TL			400	42				
	400 KV D/C Farakka-Malda Ckt 2 TL			400	42				
	400 KV S/C Farakka Rajarhat TL			400	312				

Attached as Annexure-C

	400 KV S/C Farakka Purnea TL		400	171.5				
	220kV S/C Farakka Lalmatia TL		220	85				

ng 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
1	Name of Company		NTPC Ltd.					
2	Name of Station/ Pit head or Non- Pit head		Farakka Super Thermal Power Station Stage-III (Non Pit head)					
	Stage		Single Stage					
3	Installed Capacity and Configuration	MW	1 X 500 = 500 MW					
3.1	Date of Commercial Operation - Unit Wise		04.04.2012					
3.2	Effective COD		04.04.2012					
	Make of Turbine		(BHEL)					
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)		BHEL make Boiler & Turbine: at turbine inlet 170kc , 537 Deg C					
5	Type of BFP		Steam Driven					
	Quantity	Per Unit	2 TDBFP + 1 MDBFP					
6	Circulating water system		Close cycle					
7	Any other Site specific feature							
	Design Unit heat rate	Kcal/Kwh	Stage-III 2331.69					
	Design Boiler efficiency		Stage-III 83.39					
	Design Turbine cycle heat rate		Stage-III 1944.4					
8	Fuels :							
8.1	Primary Fuel :		Coal					
8.1.1	Annual Allocation under FSA	MT	93.52 LMT					
	Annual Consumption	MT	2061613	2343258	1924740	2173001	2066872	
	Annual Requirement at NAPAF	MT	2425813	2419658	2496639	2508673	2403293	
8.1.2	Sources of supply/ procurement along with contracted quantity and grade of coal		ECL (G4-G6), BCCL (W-IV,W-V), ECL(RAJMAHAL) (G13,G14)					
8.1.2.1	FSA	LoA	8178337	9591243	9535253	7815503	6291142	
		MoU	299528	171581				
8.1.2.2	Imported*	MT	NO FSA					
8.1.2.	Spot Market/e-auction*	MT	NO E-AUCTION					
8.1.3	Transportation Distance of the station from the sources of supply	KM	ECL-MGR: 84 KM, ECL Rail: 172-260KM, BCCL: 307 KM					
8.1.4	Mode of Transport		INDIAN Rail/Road/MGR					
8.1.5	Maximum Station capability to stock primary fuel (for days consider availability as NAPAF)	Days & MT	600000 & 23 days					For 2100 MW Station
8.1.6	Maximum stock maintained for primary fuel	MT	475683	417130.33	620083.6	905636	477103	
	Date		12-04-2017	16-05-2018	31-03-2020	19-06-2020	12-04-2021	
8.1.7	Minimum Stock maintained for primary fuel	MT	0	0	12029	385968	2566	
	Date		02-11-2017	19-09-2018	01-11-2019	13-03-2021	19-10-2021	

8.1.8	Average stock maintained for primary fuel	MT	114000	113000	236000	630000	166000	
8.2	Secondary Fuel :							
8.2.1	Annual Allocation/ Requirement	KL			9198			For 2100 MW Station
8.2.2	Sources of supply				IOCL			
8.2.3	Transportation Distance of the station from the sources of supply	KM			500			
8.2.4	Mode of Transport				Rail			
8.2.5	Maximum Station capability to stock secondary fuels	KL			11500			
8.2.6	Maximum Stock of secondary oil actually maintained	KL			7796			
8.2.7	Minimum Stock of secondary oil actually maintained	KL			1052			
8.2.8	Average Stock of secondary oil actually maintained	KL			5456			
9.	Cost of Spares :							
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)						For Full 2100 MW Station capacity.
			6552.9	4434.8	5831.9	6705.5	5922.3	
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)						
9.3	Initial spares-list, quantity and cost	(Rs. Lakh)				NA		
9.4	Maintenance spares - cost	(Rs. Lakh)						For Full 2100 MW Station capacity.
			8675.0	7073.8	7979.9	6684.6	6022.6	
9.5	Other spares procured with high lead procurement time	(Rs. Lakh)						For Full 2100 MW Station capacity.
			6365.85	8233.22	4358.37	1965.2	1153.41	
10	Generation :							
10.1	-Actual Gross Generation at generator terminals	MU	3127.43	3582.35	2811.84	3173.74	3151.67	
10.2	-Actual Net Generation Ex-bus	MU	2926.27	3358.56	2638.37	2969.40	2946.55	
10.3	-Scheduled Generation Ex-bus	MU	2957.46	3397.44	2631.07	2952.03	2951.06	
11	Average Declared Capacity (DC)	MW	406.20	424.94	365.00	457.22	412.39	
	DC Peak HD %	%				95.02	93.98	
	DC Off Peak HD %	%				95.27	93.02	
	DC Peak LD %	%				98.20	87.17	
	DC Off Peak LD %	%				98.33	86.06	
	Actual Declared Capacity	MU	3558.28	3722.46	3206.12	4005.25	3612.55	
	Deemed Declared Capacity	MU	3558.276	3722.461	3206.117	4005.245	3612.553	
12	Actual Auxiliary Energy Consumption excluding colony	MU	201.16	223.78	173.47	204.34	205.12	
13	Actual Energy supplied to Colony from the station	MU						Colony power Booked from stage 1
	Actual energy supplied to construction activities	MU	NA	NA	NA	NA	NA	
	Actual energy supplied to long term and medium term beneficiaries		2957.46	3397.44	2631.07	2952.03	2951.06	
	Actual energy supplied in short term							
	Energy supplied under bilateral arrangements							
	Energy supplied through exchahnges		0.29	1.88	0.00	0.13	0.28	
	Energy supplied under DSM	MU	-31.19	-38.88	7.30	17.37	-4.50	
	Energy supplied SCED				3.53	132.57	31.86	
14	Primary Fuel :							
14.1	Consumption :							
14.1.1	Domestic coal							
	From Linked Mines	MT	1977699	2297773.84	1924740	2173001	2053978	
	From Non-Linkd Mines	MT						
	From Integerated Mines	MT						
14.1.2	Imported coal	MT	83914	45484	0	0	12894	
14.1.3	Spot market/e-auction coal	MT						
14.2	Gross Calorific Value (GCV) :							
	(As Billed) - EM Basis as per third party	kCal/kg		4755	4759	4739	5205	

14.2.1	Domestic Coal (for each type)	(As Received) - TM Basis as per third party	kCal/kg		3796	3612	3601	3894	
14.2.2	Imported Coal	(As Billed) - ADB Basis	kCal/kg		5648			5022	
		(As Received) - ADB Basis	kCal/kg		4646			5022	
14.2.3	Spot market/e- auction coal	(As Billed)	kCal/kg						
		(As Received)	kCal/kg						
14.2.4	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Billed)		kCal/kg		4771	4759	4739	5204	
14.2.5	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Received)		kCal/kg		3820	3627	3584	3889	
	Ash content in coal (%)			34.4	31.6	33.4	34.6	34.4	
14.3	Price of coal :								
	Billed Cost (including adjustments)								
	Amount Charged by transporting agency upto delivery point								
14.3.1	Weighted Average Landed price of Domestic coal		(Rs/MT)		3851.5	3357.9	3581.9	4238.6	
	Components of landed cost and break up								
	1. Cost of coal,		(Rs/MT)		3423.8	3281.4	3118.5	3492.7	
	2. Transportation		(Rs/MT)		378.4	30.0	403.4	699.7	
	3. Other charges		(Rs/MT)		49.3	46.5	60.0	46.2	
14.3.2	Weighted Average Landed Price of Imported coal		(Rs/MT)		6712.0	0.0	0.0	14187.0	
	Components of landed cost and break up								
14.3.3	Weighted Average Landed Price of Spot market / e-auction coal		(Rs/MT)		NA	NA	NA	NA	
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the Coals		(Rs/MT)		3902.14	3358.00	3582.00	4277.00	
14.4	Blending :		% and MT (of the total coal consumed)						
	Blending ratio of imported coal with domestic coal		Equivalent to domestic coal	4.07	1.94	0.00	0.00	0.62	
14.4.2	Proportion of e-auction coal in the blending		% & MT						
	Coal stockyard capacity		MT	600000 MT					Common for both stages
14.5	Actual daily Average Coal stock maintained		MT	114000	113000	236000	630000	166000	
			Days	4.2	4.1	8.0	21.7	6.0	

14.5	Actual Transit & Handling Losses for coal/Lignite								
14.5.1	Pit- Head Station								
14.5.1.1	Transit loss from linked mines		%	0.76	0.69	0.58	1.68	1.47	Common for both stages
14.5.1.2	Transit loss from non-linked mines including e-auction coal mines.		%	0.69	0.71	0.08	NA	NA	
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		%	NA					
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	2255.5	1339.5	2693.8	1449.5	3122.5	
		HSD	KL	0	0	0	0	0	
15.2	Weighted Average Gross Calorific value (As received)	HFO	(kCal / Lit.)	9721	9809	9842	9829	9811	
		HSD	(kCal / Lit.)	0	0	0	0	0	
15.3	Weighted Average Price	HFO	(Rs / KL)		38258	39835	32651	51471	
		HSD	(Rs / KL)		58964	58964	58964	58964	
15.4	Actual Average stock maintained	HFO	KL	5937	6086	4017	5533	5705	
		HSD	KL	0	0	0	0	0	
16	Weighted average duration of outages(unit-wise details):								
16.1	Planned Outages		(Days)	4.9	8.0	64.2	11.7	25.4	
16.2	Forced Outages		(Days)	7.21	9.44	21.16	10.18	2.92	
	Within control of generator		(Days)	0.20	0.91	0.00	0.44	0.11	
	beyond control of generator		(Days)	7.01	8.54	21.16	9.74	2.82	
16.3	Number of tripping		Nos.	9	6	10	3	8	
16.4	Number of start-ups:		Nos.	12	10	16	7	11	
16.4.1	Cold Start-up		Nos.	3	4	7	3	3	
16.4.2	Warm Start-up		Nos.	2	3	2	3	3	
16.4.3	Hot start-up		Nos.	7	3	7	1	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								
	NOX Control system installation date								
17.2	Actual emission (Stage-I)	SPM	mg/Nm3	Attached as Annexure-A					
		NOX	mg/Nm3						
		SOX	mg/Nm3						
	Actual emission (Stage-II)	SPM	mg/Nm3						
		NOX	mg/Nm3						
		SOX	mg/Nm3						
	Ash dyke capacity as on 31st March		Lakh M3						
	Ash pond capacity as on 31st March								
	Fund available in Ash Fund Account as on 31st March			Attached as Annexure-B					
	Amount utilized from Ash Fund Account								
	Ash available as on 31st March		LMT	30.19	31.34	31.81	28.25	27.88	For the Station (2100 MW)
	Ash utilized for construction of ash dyke		LMT	0.96	7.56	0.58	0	0	
	Ash utilized within plant premise, other than construction of ash dyke		LMT	0.04	0.04	0.03	0.04	0.01	
	Ash transported		LMT	1.49	0.8	29.19	25.41	27.36	
	Average Distance		km	150	150	150	150	150	
	Detail of Ash utilization % of fly ash produced		%	53.01	80.14	127.79	127.96	137.12	

19.1	Conversion of value added product	(%)	36.24	43.73	10.16	13.35	10.26	(2100 MW)
19.2	For making roads &embarkment	(%)	4.92	2.55	91.77	89.95	98.13	
19.3	Land filling	(%)	0.13	0.12	14.23	14.69	0.00	
19.4	Used in plant site in one or other form or used in some other site	(%)	3.18	24.11	1.84	0.00	0.00	
19.5	Any other use , Please specify	(%)	8.53	9.63	9.79	9.98	28.73	
20	Cost of spares actually consumed	(Rs. Lakh)	73.94	136.74	114.20	64.98	0.00	
21	Average stock of spares	(Rs. Lakhs)	30545	31970	33002	33282	34386	For the station 2100 MW
22	Number of employees deployed in O&M	Nos.						
22.1	- Executives	Nos.	392	366	355	327	311	Manpower at the last day of FY. For the station 2100 MW
22.2	- Non Executives	Nos.	655	590	533	485	393	
22.3	- Corporate office	Nos.	2568	2241	2016	1815	1728	
23	Man-MW ratio	Man/MW	0.50	0.46	0.42	0.39	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		Switchyard is common.					
	No. of Bays voltagewise							
	Voltage rating	Total bays						
	400kV	43						
	220kV	4						
	ICT - nos and rating							
	Voltage	MVA		Qty				
	400/33kV	125		2				
	400/33kV	100		1				
	400/220kV	315		2				
	Dedicated transmission line - voltage and length							
	Circuit Name				Voltage(kV)	Length (km)		
	400 KV D/C Farakka Berhampore Ckt 1 TL				400	82		
	400 KV D/C Farakka Berhampore Ckt 2 TL				400	82		
	400 KV D/C Farakka Kahalgaon-1 TL				400	95		
	400 KV D/C Farakka Kahalgaon-2 TL				400	95		
	400 KV S/C Farakka Sagardighi 1 TL				400	68		
	400 KV S/C Farakka Sagardighi 2 TL				400	73.5		
	400 KV D/C Farakka-Malda Ckt 1 TL				400	42		
	400 KV D/C Farakka-Malda Ckt 2 TL				400	42		
	400 KV S/C Farakka Rajarhat TL				400	312		
	400 KV S/C Farakka Purnea TL				400	171.5		
	220kV S/C Farakka Lalmatia TL				220	85		

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

2016-17	392.33	35.75	750.00	4701.73	21.34	589.94	3698.29	FIRE DETECTION FOR CHP	179.80	Load tube cleaning system along with debris filter (package u#1,2,3)	60.75	Inert Gas Fire Extinguishing System	721.08	4408.67	0.00	-84.70	5878.58	10679.58	10616.73	Loan FERV: (-)0.30, IUT: 4.45, MBOA: 20.68, Decap of spare_part of tariff: (-)21.96, liability reinstatement: 101.58, Decap part of tariff: (-) 170.63, Decap of spares not part of tariff: - 117.01, Decap of MBOA - 9.14, liability reversal: -6.29, undischarged liabilities of allowed items : 35.75
								Continuous Emission Monitoring System	177.74	Complete refining of HPT	417.97	4th raising of Nishindra Ash Dyke	1144.66							
								Effluent Quality Monitoring System	34.79			Strengthening of MGR Track	10.61							
												ESP Collecting & Emitting Electrode Replacement	2053.6							
Total	392.33	Total	478.72	TOTAL	3929.95															
2017-18	9.17	0.00	1000.00	5000.29	21.34	786.58	3933.13	FIRE DETECTION FOR CHP	0.58	Replacement of HP Heaters stage-I	395.54	Strengthening of MGR Track	11.21	406.75	488.26	3824.70	4130.55	5034.73	4144.76	Contractor's FERV: (-)22.38, IUT: -441.47, Decap of spare_part of tariff: (-)281.84, Decap Part of Tariff: (-)85.22, Decap_not part of tariff: - 170.88, liability reversal: 0.73, Undischarged liabilities of allowed items : 111.09
								Continuous Emission Monitoring System	8.59											
								Total	9.17	Total	395.54	TOTAL	11.21							
2018-19	7572.37	298.66	1000.00	5317.81	21.55	786.58	4171.88	Upgradation of DDCMS Stg-II	6801.4			Strengthening of MGR Track	1.07	3044.40	26.64	1588.76	3805.22	14747.29	13543.78	Contractor's FERV: (-)33.33, IUT: 2046.51, Decap_Of Spares_part_of_tariff: -61.6, Decap part of tariff : -3230.50, Decap_Not Part of Tariff: -265.07, liability reversal:- 22.56, Undischarged liabilities of allowed items : 301.44
								BOBR Complete Wagons	1069.63			Retrofitting of ESP Stg-I	3043.33							
								Total	7871.03	Total	0.00	TOTAL	3044.40							

Details of expenditure incurred from Compensation Allowance and Special Allowance during Tariff Period 2019-21

FY Year	Add-cap allowed by the Commission under the provision of Regulation 25	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 2019-21					Total Expenditure done under Special and Compensation Allowance	Capitalisation done which has not been claimed/ dis 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 (2)		Capitalisation out of Compensation allowance in the stations wherever applicable		Capitalisation out of Special Allowance allowed in the stations where applicable									
	Gross 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	9		10		11		12=10+11	13	14=(2+3+7*8); (9+12+13)	15	16=9+12+13+15	17	18	
2019-20*					5700.00	17.47	0.00	4704.10	5th raising of Nishindra Ash Dyke	802.84		Procurement of Mills (1 unit)	60.16	642.04	0.00	2946.47	4857.09	6614.72	5299.00	Leasehold Jetty Land: 18.96; Contractor's FERV: 99.47, IUT: 19.15 ,Decap part of tariff: - 863.34, Decap_Not Part of Tariff: -493.15, Decap Of Spares Part Of Tariff: -96.80
									Geotechnical Investigation at Nishindra Ash Dyke Lagoon-I&II	19.8		Refurbishment of 200 MW HP Turbine Module	581.88							
									Consultancy Contract for Feasibility Study of 5th & 6th raising of Nishindra Ash Dyke, Lagoon- I & II	8.02										
									LED Installation	253.02										
									Upgradation of DDCMS Stg-II	31.91										
Total	1115.59	Total	0.00	TOTAL	642.04															
2020-21*					10450.00	17.47	0.00	8624.18	5th raising of Nishindra Ash Dyke	503.16		Procurement of Mills (Unit#2 - C&D)	124.18	7051.90	0.00	1025.03	5872.08	13471.23	10595.27	Liability Reversal : -396.97; IUT : 0.84 ; Decap Part Of Tariff: -1732.06; Decap_Not Part Of Tariff: -97.18 ; Decap Of Spares Part Of Tariff: -650.05
									4th raising of Nishindra Ash Dyke	2.22		ABT System for ERP	45.42							
									Upgradation of DDCMS Stg-II	41.61		Elevator Upgradation	297.11							
												C&I System for FSTPP Under R&M St-I(Units#2&3)	1650.68							
									Real time data transmission for CEMS, EQMS	0.26		415 V Air Circuit Breakers under R&M(Stage-I), Replacement of electrical actuators under R&M	285.53							
		R&Retrofitings Of ESP ST-1 (Unit-I)	4215.69																	

Annexure-VI (C)						
DETAILS OF WATER CHARGES						
	Name of the Company:	NTPC Ltd.				
	Name of the Power Station and Stage/Phase:	Farakka Super Thermal Power Station (2100 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	Farakka Super Thermal Power Station				
1	Type of Plant	Coal Based Plant				
2	Type of Cooling Tower	IDCT				
3	Type of Cooling Water System	Close cycle				
4	Any Special Features which may increase/reduce water consumption	Draws cooling water from Farakka Feeder Canal				
(B)	Quantum of Water : (Cubic Meter)					
5	Contracted Quantum	NA	NA	NA	NA	NA
6	Allocation of Water	75853600	75853600	75853600	75853600	75853600
7	Actual water Consumption	48097807	53797699	54442124	51688281	52887099
8.	Rate of Water Charges *	1.374	1.374	5.5	5.5	5.5
9	Other charges/Fees , if paid as part of Water Charges					
10	Total water Charges Paid	999.0	2705.4	6865.1	4085.1	4041.9
	Consumptive water calculation is based on agreement with Farakka barrage project					
Note:	Jan 2019 revision of water charges 4 times rate increased					
	Jan 2022 revision of water charges from Rs. 5.50 to Rs.7.97/m3					

Annexure VI (D)

Annexure VI (D)						
DETAILS OF OPERATIONS AND MAINTENANCE EXPENSES						
	Name of the Company: NTPC					
	Name of the Power Station : FSTPS (2100 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)	Details of Capital Spares in opening Stock	38217.76	44247.58	48405.49	53684.22	59621.77
(B)	Details of Capital Spares procured during the year	6552.86	4434.78	5831.91	6705.47	5922.33
(C)	Details of capital spares consumed during the year	523.04	276.88	553.18	767.92	996.84
(D)	Details of capital spares closing at the end of the	44247.58	48405.49	53684.22	59621.77	64547.27

Name of Utility:		NTPC Ltd.																		
Name of Generating Station:		Farakka Stg-I&II																		
Station Configuration:		3*200 + 2*500																		
Capacity (MW):		1600																		
COD:		01.07.1996																		
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)	%	70.53	84.34	84.92	83.99	76.81	73.36	87.23	82.56	73.38	92.65	84.92	81.29	87.09	83.58	87.68	80.98	94.12	83.73
2	Plant Load Factors (PLF)	%	69.21	81.79	81.33	81.53	76.76	73.05	79.12	71.00	67.87	74.03	72.74	67.34	73.60	72.98	80.37	73.43	62.46	66.14
2a	Loading factor	%													81.00	88.26	81.51	73.36	76.04	
3	Scheduled Energy	MU	NA	NA	NA	NA	9917	9404	10407	9540	8556	9703	9642	8997	9674	9611	10612	9692	8134	8521
4	Scheduled Generation	MU	NA	NA	NA	NA	9917	9404	10407	9540	8556	9703	9642	8997	9674	9611	10612	9692	8134	8521
5	Actual Generation	MU	8876	10661	10638	10939	9993	9479	10343	9278	8360	9674	9476	8750	9534	10229	11264	10321	8755	9270
	Actual Generation (ex-bus)														9458	10472	9491	8019	8462	
	Actual energy supplied to beneficiaries (Long Term, Medium Term and Short)	MUs	NA	NA	NA	NA	9917	9404	10407	9540	8556	9703	9642	8997	9674	9611	10612	9692	8134	8521
6	Quantum of coal consumption	MT	8934468	9441561	9625056	9645264	8602254	8144248	7334125	6898354	7099401	7580063	7460388	6591469	6888666	6595928	7241526	7184979	6036976	6034848
7	Value of coal	Rs. Lakh					273130	235857	302437	230681	232705	292947	273247	231693	252125	377749	319058	286916	332067	
8	Specific Coal Consumption	kg/kWh	0.921	0.824	0.844	0.822	0.800	0.795	0.661	0.691	0.800	0.740	0.730	0.700	0.640	0.645	0.643	0.696	0.691	0.650
9	Gross Calorific Value of Coal	(Kcal/ Kg)	2644	2945	2863	2934	3006	3016	3623	3462	3004	3262	3244	3422	3856	3740	3821	3527	3525	3828
10	Heat Contribution of Coal	(Kcal/kWh)	2436	2426	2416	2411	2403	2399	2396	2393	2386	2392	2388	2381	2453	2411	2457	2455	2434	2490
11	Cost Of Specific Coal Consumption - Finally admitted by CERC (Ex-Bus)	(Rs./kWh)																		
12	Quantum of Oil Consumption	(KL)	23456	10772	10214.5	10365	13068.2	8518	4319.5	6036	10241	6111.5	8965	16670.5	8995	13003	6436	10272.7	8151.5	12889
13	Value of Oil	(Rs. lakh)														4323.92	5728.63	2853.65	8784.00	
14	Gross calorific value of oil	(kcal/lit)	9585	9579	9578	9591	9619	9637	9669	9700	9573.5	9531	9738	9751	9774	9711.26	9807.58	9813.14	9819.25	9794.86
15	Specific Oil Consumption	(ml/kWh)	2.42	0.94	0.896	0.88	1.21	0.83	0.39	0.6	0.96	0.59	0.88	1.76	0.87	1.271	0.571	0.995	0.931	1.390
16	Cost Of Specific Oil Consumption - Finally admitted by CERC	(Rs./kWh)																		
17	Heat Contribution of Oil	(Kcal/kWh)	23.17647981	9.000886088	8.582724888	8.468125713	11.68319647	7.629482374	3.766367166	5.87	10.85	5.616	8.56	17.17	8.52	12.34	5.60	9.77	9.14	13.62
18	Station Heat Rate	(Kcal/kWh)	2459	2435	2425	2419	2415	2407	2400	2399	2397	2398	2396.6	2398	2462	2423	2462	2465	2443	2503
19	Auxiliary Energy Consumption	(%)	8.5	7.01	6.68	6.8	6.95	7.38	6.62	6.91	8.67	6.86	7.05	7.24	7.54	7.34	6.91	7.89	8.48	8.51
20	Debt at the end of the year	(Rs. Crore)	149.2	101.92	63.86	38.74	40.94	5.06	0	0	0	0	0	0	0	0	0	0	0	0
21	Equity - Average	(Rs. Crore)	1532.47	1536.47	1542.77	1548.28	1551.30	1548.03	1562.13	1568.95	1569.01	1567.74	1566.3957	1565.8893	1566.1245	1565.5808	1561.9925	964.9297	978.9803	1001.6144
22	Working Capital - finally admitted by CERC	(Rs. Crore)	450.62	455.13	460.20	466.32	470.78	912.36	919.26	928.05	935.01	945.78	1116.01	1127.174	1130.6343	1162.5746	1172.5077	901.7639	914.057	925.3201
23	Capital cost - finally admitted by CERC	(Rs. Crore)	3067.1885	3080.5223	3101.5508	3119.9181	3129.9657	3134.3086	3181.3117	3204.0487	3204.2493	3200.012	3196.233	3195.9354	3196.7602	3196.4799	3204.4665	3216.4325	3263.2677	3338.7146
24	Capacity Charges/ Annual Fixed Cost (AFC)	(Rs. Crore)	538.49	544.08	551.22	559.40	565.93	815.68	833.88	850.35	877.70	914.80	904.4626	933.2671	947.612	979.7336	983.5925	855.4573	960.2862	1045.4938

For full capacity of 2100 MW

For full capacity of 2100 MW

Annexure-XIX

Name of Utility:		NTPC Ltd.																		
Name of Generating Station:		Farakka Stg-I&II																		
Station Configuration:		3*200 + 2*500																		
Capacity (MW):		1600																		
COD:		01.07.1996																		
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
	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009																			
	Absolute value	(Rs. Crore)	214.55	215.11	215.99	216.76	217.18	363.49	362.57	359.98	359.99	368.12	307.17	308.56	308.60	308.50	308.62	181.2331028	183.8720818	188.12321
	Rate	(%)	14	14	14	14	14	23.481	23.21	22.944	22.944	23.481	19.61	19.706	19.706	19.706	19.758	18.782	18.782	18.782
	(b) interest on Loan																			
	Absolute value	(Rs. Crore)	7.43	5.28	3.76	3.15	1.30	1.54	0.16	0.00	0.00	0.00	0	0	0	0	0	0	0	0
	Rate – Weighted Average Rate	(%)	4.31	4.35	4.74	6.47	4.02	6.81	6.36	6.33	6.40	6.41	6.5073	6.3635	5.2863	5.0692	5.1038	8.3419	8.3429	8.3465
	(c) Depreciation (finally allowed by CERC)																			
	Absolute value	(Rs. Crore)	114.33	114.82	115.61	116.29	116.67	71.27	76.29	79.88	79.58	79.19	79	80	80	81	45	7	42	68
	AAD																			
	Rate	(%)	3.73	3.73	3.73	3.73	3.73													
	(d) Interest on working Capital																			
	Absolute value	(Rs. Crore)	46.19	46.65	47.17	47.80	48.26	111.76	112.61	113.69	114.54	115.86	150.6614	152.1685	152.6356	156.9476	158.2885	108.6625	110.1439	111.5011
	Rate	(%)	10.25	10.25	10.25	10.25	10.25	12.25	12.25	12.25	12.25	12.25	13.5	13.5	13.5	13.5	13.5	12.05	12.05	12.05
	(e) Operation and maintenance cost (finally admitted by)																			
	Absolute value	(Rs. Crore)	156	162.22	168.7	175.4	182.52	239.2	252.84	267.34	282.66	298.84	320.7677	341.307	351.6756	373.7148	408.3705	501.2871	518.8117	537.0027
	Rate	(%)																		
	(f) Compensation Allowances	(Rs. Crore)						5.40	6.40	6.40	6.10	4.80	5.00	7.50	7.50	10.00	10.00	NA	NA	NA
	(g) Special Allowance	(Rs. Crore)									11.82	24.98	41.57	44.21	47.02	50.00	53.18	57.00	104.50	140.16
	(h) Supplementary Tariff - Emission																			
	Absolute value	(Rs. Crore)																		
	Rate	(%)																		
	(i) Ash Utilisation Expenses	(Rs. Crore)																172.39	148.69	210.11
25	AFC	(Rs./ kWh)	0.52	0.53	0.53	0.54	0.55	0.74	0.75	0.77	0.79	0.83	0.81	0.84	0.85	0.88	0.88	0.77	0.86	0.94
26	Energy Charge	(Rs./kWh)	1.1	1.24	1.17	1.27	1.64	2.08	2.76	3.27	2.87	3.11	2.91	2.72	2.62	3.74	2.65	2.76	2.66	2.90
26.1	Supplemental Energy Charges - Emission Control	(Rs./kWh)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Total tariff	(Rs. kWh)	1.62	1.77	1.70	1.81	2.19	2.82	3.51	4.04	3.66	3.94	3.72	3.56	3.47	4.62	3.53	3.53	3.52	3.84
28	Revenue realisation before tax	(Rs. Crore)																		
29	Revenue realisation after tax	(Rs. Crore)																		
30	Profit/ loss	(Rs. Crore)	220.7	70.4	245.5	366.0	152.1	218.7	468.3	464.8	577.9	836.5	405.9	417.0	473.2	521.3	593.0	19.1	330.0	297.1
31	DSM Generation	(MU)					76.1	75.4	-63.7	-262.5	-195.1	-29.9	-165.6	-247.3	-139.2	-139.3	-201.3	-114.6	-58.2	
32	DSM Rate	(Rs/kWh)																		
33	Revenue from DSM	(Rs. Crore)																		
34	Compensation received for operation below NAFAP	(Rs Crore)																		
35	Part load Compensation received from beneficiaries	(Rs Crore)																		
36	Amount received from SCED	(Rs Crore)																		
	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																			

For full capacity of 2100 MW

Annexure-XIX

Name of Utility:		NTPC Ltd.										
Name of Generating Station:		Farakka Stg-III										
Station Configuration:		1*500										
Capacity (MW):		500										
COD:		04.04.2012										
S.N	Particulars	Unit	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)	%	70.65	86.84	84.64	81.64	98.04	86.20	90.17	77.87	97.54	87.98
2	Plant Load Factors (PLF)	%	59.51	66.26	72.68	65.47	78.25	71.40	81.79	64.02	72.46	71.96
2a	Loading factor	%						73.86	85.88	83.51	77.09	78.00
3	Scheduled Energy	MU	2667.78	2971.95	3112.58	2837.07	3251.17	2957.46	3397.44	2631.07	2952.03	2951.06
4	Scheduled Generation	MU	2667.78	2971.95	3112.58	2837.07	3251.17	2957.46	3397.44	2631.07	2952.03	2951.06
5	Actual Generation	MU	2451.49	2732.72	2990.70	2690.30	3196.92	3127.43	3582.35	2811.84	3173.74	3151.67
	Actual Generation (ex-bus)							2926.27	3358.56	2638.37	2969.40	2946.55
	Actual energy supplied to beneficiaries	MUs	2667.78	2971.95	3112.58	2837.07	3251.17	2957.5	3397.4	2631.1	2952.0	2951.1
6	Quantum of coal consumption	MT	2101509	2111078	2304610	1967429	2282719	2061613	2343258	1924740	2173001	2066872
7	Value of coal	Rs. Lakh	68883	81587	84410	69156	83548		377749	319058	286916	332067
8	Specific Coal Consumption	kg/kWh	0.81	0.73	0.72	0.68	0.64	0.659	0.654	0.685	0.685	0.656
9	Gross Calorific Value of Coal	(Kcal/ Kg)	2980	3279	3274	3450	3850	3735	3820	3542	3499	3804
10	Heat Contribution of Coal	(Kcal/ kWh)	2423	2385	2370	2360	2432	2462	2499	2424	2396	2495
11	Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)										
12	Quantum of Oil Consumption	(KL)	7529	2296	2906	6402	744	2256	1340	2694	1450	3123
13	Value of Oil	(Rs. lakh)							4323.92	5728.63	2853.65	8784
14	Gross calorific value of oil	(kcal/lit)	9573	9540	9722	9761	9767	9721	9809	9842	9829	9811
15	Specific Oil Consumption	(ml/kWh)	2.91	0.79	0.91	1.59	0.22	0.72	0.37	0.96	0.46	0.99
16	Cost Of Specific Oil Consumption – Finally admitted by CERC	(Rs./kWh)										
17	Heat Contribution of Oil	(Kcal/ kWh)	27.88	7.55	8.87	15.64	2.12	7.01	3.67	9.43	4.49	9.72
18	Station Heat Rate	(Kcal/ kWh)	2451.00	2393.00	2379.00	2376.00	2434.00	2469.42	2502.60	2433.76	2400.38	2504.27
19	Auxiliary Energy Consumption	(%)	5.43	5.38	5.36	6.18	6.22	6.43	6.25	6.17	6.44	6.51
20	Debt at the end of the year	(Rs. Crore)	1449.9	1439.5	1454.3	1348.2	1219.0	1105.6	973.1	865.4	879.5	789.7
21	Equity - Average	(Rs. Crore)	652.3	690.4	743.1	780.0	789.1	797.7	806.4	815.5	856.4	904.4
22	Working Capital – finally admitted by CERC	(Rs. Crore)										
23	Capital cost – finally admitted by CERC	(Rs. Crore)	2174.4	2301.2	2477.1	2599.8	2630.4	2659.0	2687.9	2718.5	2854.8	3014.6
24	Capacity Charges/ Annual Fixed Cost (AFC)	(Rs. Crore)	550.9	572.7	543.3	558.2	554.2	546.6	547.8	546.1	562.1	581.5
	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009											
	Absolute value	(Rs. Crore)	149.67	162.10	145.73	153.69	155.50	157.19	159.32	153.17	160.85	169.86
	Rate	(%)	22.944	23.481	19.61	19.71	19.71	19.71	19.76	18.782	18.782	18.782
	(b) interest on Loan											
	Absolute value	(Rs. Crore)	144.11	142.05	141.83	132.02	119.48	101.71	86.90	77.89	74.06	70.84
	Rate – Weighted Average Rate	(%)	9.82%	9.83%	9.80	9.42	9.31	8.75	8.36	8.36	8.47	8.49
	(c) Depreciation (finally allowed by CERC)											
	Absolute value	(Rs. Crore)	110.92	117.76	126.91	138.73	140.72	142.87	145.58	138.70	145.65	153.80
	AAD											
	Rate	(%)	5.1011	5.1173	5.12	5.34	5.35	5.37	5.42	5.10	5.10	5.10
	(d) Interest on working Capital											
	Absolute value	(Rs. Crore)	59.39	60.04	53.16	53.74	54.29	55.39	55.96	40.96	41.38	41.84
	Rate	(%)	13.50%	13.50%	13.5	13.5	13.5	13.5	13.5	12.05	12.05	12.05
	(e) Operation and maintenance cost (finally admitted by CERC)											
	Absolute value	(Rs. Crore)	69.12	73.08	75.66	79.98	84.22	89.39	100.03	135.34	140.12	145.11
	Rate	(%)										
	(f) Compensation Allowances	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

For full capacity of 2100 mW

For full capacity of 2100 mW

Annexure-XIX

Name of Utility:		NTPC Ltd.										
Name of Generating Station:		Farakka Stg-III										
Station Configuration:		1*500										
Capacity (MW):		500										
COD:		04.04.2012										
S.N	Particulars	Unit	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
	(g) Special Allowance	(Rs. Crore)	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)								46.80	53.96	72.77
25	AFC	(Rs./ kWh)	1.60	1.65	1.55	1.59	1.58	1.56	1.56	1.56	1.61	1.67
26	Energy Charge	(Rs./kWh)	2.83	3.09	2.90	2.74	2.61	4.81	2.65	2.73	2.61	2.85
26.1	Supplemental Energy Charges - Emission Control	(Rs./kWh)										
27	Total tariff	(Rs. kWh)	4.43	4.74	4.45	4.33	4.19	6.37	4.21	4.29	4.22	4.52
28	Revenue realisation before tax	(Rs. Crore)										
29	Revenue realisation after tax	(Rs. Crore)										
30	Profit/ loss	(Rs. Crore)	577.89	836.49	405.87	416.97	473.17	521.3	593.0	19.1	330.0	297.1
31	DSM Generation	(MU)	-216.29	-239.23	-121.88	-146.77	-54.25	-31.19	-38.88	7.30	17.37	-4.50
32	DSM Rate	(Rs/kWh)										
33	Revenue from DSM	(Rs. Crore)	38.3491	39.6159	25.5646	31.2505	11.1134	9.97	14.67	3.22	3.42	13.89
34	Compensation received for operation below NAPAF	(Rs Crore)						10.26	0	14.78	9.81	21.55
35	Part load Compensation received from beneficiriaes	(Rs Crore)						10.26	0	14.78	9.81	21.55
36	Amount received from SCED	(Rs Crore)						0	0	2.6	1.86	1.1
	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											

For full capacity of 2100 mW

							Annexure-XXII
DETAILS OF EMISSION CONTROL SYSTEM							
Generating company: NTPC							
Name of Generating station: FSTPS Stage-I&II &III							
Installed Capacity (MW) :2100							
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	ECS system under installation.				
2	Auxiliary Consumption - emission control (Actual)	MU					
	Auxiliary Consumption - emission control (Actual)	%					
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	Farakka Stg-I, II & III				
			Investment Approval	Approved*			
1	Capital Cost of Emission Control System						
1.1	Hard Cost	Lakh/MW	1316.23				
1.1.1	Civil Works	Rs. Crore	Included in above				
1.1.2	Plant and Machinery and others	Rs. Crore	Included in above				
1.1.3	Initial Spares procured	Rs. Crore	Included in above				
1.2	IDC	Rs. Crore	101.96				
1.3	IEDC	Rs. Crore	39.49				
1.4	Others. Pls specify	Rs. Crore					
1.4	Completed Cost	Rs. Crore	1457.68				