S.N	Particulars		Units	2019-20	2020-21	2021-22	
1	Name of Company			NTPC NABINAGAR (50:50 JV NTPC & Bihar (w.e.f. 01.08.2022 NTPC Nabinagar became part of NTPC)			
2	Name of Station/ Pit head or Non- Pit head		NABINAGAI	R SUPER THERM	IAL POWER		
	Stage			ONLY 1 STAGE EXISTING			
3	Installed Capacity and Configuration		MW		1980/ 660*3		
3.1	Date of Commercial Operation - Unit Wise			U-I : 06.09.2019, U-II : 23.07.2021, U-III : 01.06.2022			
3.2	Effective COD				01.06.2022		
	Make of Turbine				GE ALSTOM		
4	Rated Steam Parameters (Also state the type of Steam turbine	and Boiler)		MS: Temp: -565 Temp:-593 Deg (BHEL Make), M	Deg C/ Throttle PF C/ 58.25 ksc, Supe Iulti stage Reactior	R-247 ata , HRH: er Critical Boiler n turbine, throttle	
5	Type of BFP			Electrical Dr	riven or Steam driv	ven (BOTH)	
	Quantity		(2 MDBFP & 2 TDBFP)				
6	Circulating water system			Closed Cycle			
7	Any other Site specific feature						
	Unit heat rate				2145		
	Boiler efficiency			85.42			
	Turbine cycle heat rate			1832			
8	Fuels :						
8.1	Primary Fuel :				Coal		
8.1.1	Annual Allocation under FSA		MT		2346300	3971000	
	Annual Consumption		MT	1567210	2838554	4720323	
	Annual Requirment at NAPAF		MT	1684716	2971310	4914631	
8.1.2	Sources of supply/ procurement along with contracted quarter	ntity and grade of coal		CCL (G8-G13), B	CCL (G5-G17, Wa	ished Coal)	
8.1.2.1	FSA	LoA	MT	0	2346300	3971000	
		MoU	MT	200000	0	0	
8.1.2.2	Imported*		MT		0	0	
8.1.2.	Spot Market/e-auction*		MT		0	0	
8.1.3	Transportation Distance of the station from the sources of supply		KM	CC: 240-260 KM, BCCL: 240-280 Km			
8.1.4	Mode of Transport			Road, Rail			
8.1.5	Maximum Station capability to stock primary fuel (for days consid	ler availability as NAPAF)	Days & MT	21 Days & 6 Lakh MT			
8.1.6	Maximum stock maintained for primary fuel		MT	269671.78	302870.367	413046.13	
	Date			04-09-2019	28-02-2021	18-03-2022	
8.1.7	Minimum Stock maintained for primary fuel		MT	21133.88	44241.47	15668.791	

S.N	Particulars		Units	2019-20	2020-21	2021-22		
	Date			31-10-2019	04-10-2020	17-10-2021		
8.1.8	Average stock maintained for primary fuel	·	MT	113214.7	144173.9	167407.0		
8.2	Secondary Fuel :							
8.2.1	Annual Allocation/ Requirement		KL		7370			
8.2.2	Sources of supply			Ι	IOCL/BPCL/HPCL			
8.2.3	Transportation Distance of the station from the sources of supply		KM	VIZAG-1120, M	IATHURA-902, B	UDGE BUDGE-		
8.2.4	Mode of Transport				Road			
8.2.5	Maximum Station capability to stock secondary fuels		KL		7000			
8.2.6	Maximum Stock of secondary oil actually maintained		KL	5494.84	8101.89	5710.86		
8.2.7	Minimum Stock of secondary oil actually maintained		KL	2187.31	3711.32	2736.51		
8.2.8	Average Stock of secondary oil actually maintained		KL	4425.21	5058.88	4575.08		
9.	Cost of Spares :							
9.1	Cost of Spares capitalized in the books of accounts		(Rs. Lakh)					
9.2	Cost of spares included in capital cost for the purpose of tariff	1	(Rs. Lakh)	17164.61	409.89	922.14		
9.3	Initial spares-list, quantity and cost		(Rs. Lakh)					
9.4	Maintenance spares - cost		(Rs. Lakh)					
9.5	Other spares procured with high lead procurement time		(Rs. Lakh)	894.7	212.23	437.57		
10	Generation :							
10.1	-Actual Gross Generation at generator terminals		MU	2564.94	4639.69	7921.50		
10.2	-Actual Net Generation Ex-bus		MU	2433.11	4391.82	7679.14		
10.3	-Scheduled Generation Ex-bus		MU	2442.34	4445.65	7497.40		
11	Average Declared Capacity (DC)		MW	310.69	569.42	954.87		
	DC Peak HD %		%		102.27	99.57		
	DC Off Peak HD %		%		102.94	99.55		
	DC Peak LD %		%		88.46	94.36		
	DC Off Peak LD %	-	%		88.39	88.97		
	Actual Declared Capacity		MU	2721.67	4988.16	8364.66		
	Deemed Declared Capacity							
12	Actual Auxiliary Energy Consumption excluding colon	у	MU	131.83	247.87	242.36		
13	Actual Energy supplied to Colony from the station		MU		4.03	4.16		
	Actual energy supplied to construction activities							
	Actual energy supplied to long term and medium term beneficiarie	s	MU	2699.93	4383.67	7547.27		
	Actual energy supplied in short term							
	Energy supplied under bilateral arrangements							
	Energy supplied through excahnges							
	Energy supplied under DSM		MU	-9.23	-53.83	181.74		
	Energy supplied SCED		MU	-18.22	57.52	117.25		
14	Primary Fuel :							
14.1	Consumption :							

S.N	Particulars		Units	2019-20	2020-21	2021-22
14.1.1	Domestic coal	From Linked Mines	MT	1567210	2838554	4720323
		From Non-Linkd Mines	MT			
		From Integerated Mines	MT			
14.1.2	Imported coal	•	MT	0	0	0
14.1.3	Spot market/e-auction coal		MT			
14.2	Gross Calorific Value (GCV) :					
		(As Billed) - EM Basis as	kCal/kg	4509	4395	4597
14 2 1	Domestic Coal (for each type)	per third party				
17.2.1	Domestic Coal (for each type)	(As Received) - TM Basis	kCal/kg	3825	3710	3856
		as per third party				
14.2.2	Imported Coal	(As Billed) - ADB Basis	kCal/kg	NA	NA	NA
		(As Received) - ADB Basis	kCal/kg	NA	NA	NA
14.2.3	Spot market/e- auction coal	(As Billed)	kCal/kg	NA	NA	NA
		(As Received)	kCal/kg	NA	NA	NA
14.2.4	Weighted Average Gross Calorific value (Domestic+Impor Billed)	rted+Spot/e-auction) (As	kCal/kg	4509	4395	4597
14.2.5	Weighted Average Gross Calorific value (Domestic+Impor Received)	ted+Spot/e-auction) (As	kCal/kg	3825	3710	3856
	Ash content in coal (%)			34.78	34.05	33.15
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)	3254	3171	3321
	Components of landed cost and break up					
		1. Cost of coal,	(Rs/MT)	2227	2343	2487
		2. Transportation	(Rs/MT)	985	775	805
		3. Other charges	(Rs/MT)	42	53	29
14.3.2	Weighted Average Landed Price of Imported coal		(Rs/MT)			
	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)	3254	3171	3321
14.4	Blending :		% and MT		NA	
			(of the total coal			
			consumed)			
	Blending ratio of imported coal with domestic coal		Equivalent to			
			domestic coal			
14.4.2	Proportion of e-auction coal in the blending		% & MT			

Annexure–I

S.N	Particulars		Units	2019-20	2020-21	2021-22	
	Coal stockyard capacity				4.59 LMT		
14.5	Actual daily Average Coal stock maintained		MT	113215	144174	167407	
			Days	24.5	17.7	12.4	
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 mine	S.	%				
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		%	0.721	0.781	0.79	
14.5.2.2	Transit loss from non-linked mines including e-auction coal mine	S.	%				
14.5.2.3	Transit loss of imported coal		%				
15	Secondary Fuel Oil :						
15.1	Consumption	HFO	KL				
		HSD	KL	2347.63	2744.72	2797.49	
15.2	Weighted Average Gross Calorific value (As received)	HFO	(kCal / Lit.)				
		HSD	(kCal / Lit.)	9376	9197	9205	
15.3	Weighted Average Price	HFO	(Rs / KL)				
		LDO	(Rs / KL)	52143	55515	69381	
15.4	Actual Average stock maintained	HFO	KL	NIL	NIL	NIL	
		HSD	KL	4462	4902	4559	
16	Weighted average duration of outages(unit-wise details):						
16.1	Planned Outages		(Days)	7.35	16.16	16.46	
16.2	Forced Outages		(Days)	11.65	25.05	19.33	
	Within control of generator						
	beyond control of generator						
16.3	Number of tripping		Nos.	8	9	14	
16.4	Number of start-ups:		Nos.	13	10	17	
16.4.1	Cold Start-up		Nos.	5	7	7	
16.4.2	Warm Start-up		Nos.	4	1	2	
16.4.3	Hot start-up		Nos.	4	2	8	
17	NOx, SOx, and other particulate matter emission in : at conditio	ns specified by MoEF&CC		ECS s	ystem under instal	lation.	
17.1	Design value of emission control equipment (specify conditions)			1			
	FGD installation date			1			
	NOX Control system installation date			1			
17.2	Actual emission (Stage-I)	SPM	mg/Nm ³	Att	ached as Annexure	e-A	
		NOX	mg/Nm ³	1			

S.N	Particulars		Units	2019-20	2020-21	2021-22	
		SOX	mg/Nm ³			•	
	Actual emission (Stage-II)	SPM	mg/Nm ³				
		NOX	m_2/Nm^3	_			
		SON		_			
		30A	mg/Nm [°]				
	Ash dyke capacity as on 31st March		MT	_			
	Ash pond capacity as on 31st March		MT			_	
	Fund avalable in Ash Fund Account as on 31st March		Rs Lakh	Attached as Annexure-B			
	Amount utilized from Ash Fund Account		Rs Lakh				
	Ash available as on 31st March		LMT	6.44	10.43	16.84	
	Ash utilized for construction of ash dyke		LMT	0	0	0	
	Ash utilized within plant premise, other than construction of ash		LMT	0	0	0	
	dyke						
	Ash transported		LMT	0	0	0	
	Average Distance		km	0	0	0	
19	Detail of Ash utilization % of fly ash produced		(%)	51.40	51.58	50.89	
19.1	Conversion of value added product		(%)	51.40	51.58	50.71	
19.2	For making roads & embarkment		(%)	0.00	0.00	0.00	
19.3	Land filling		(%)	0.00	0.00	0.18	
19.4	Used in plant site in one or other form or used in some other site		(%)	0.00	0.00	0.00	
19.5	Any other use, Please specify		(%)	0.00	0.00	0.00	
20	Cost of spares actually consumed		(Rs. Lakh)	15.64	409.89	922.14	
21	Average stock of spares		(Rs. Lakhs)				
22	Number of employees deployed in O&M		Nos.				
22.1	- Executives		Nos.	244	247	249	
22.2	- Non Executives		Nos.	7	6	6	
22.3	- Corporate office		Nos.	2016	1815	1728	
23	Man-MW ratio		Man/MW	0.38	0.38	0.19	
	Total billed amount						
	Total received amount within due date			Attached As An	nexure-C		
	Total amount received beyond due date						
	Total amount pending						
	Total amount under dispute						
	Total rebate given						
	Total LPSC recovered						
24	Generation Switchyard Details	Ī					
	No. of Bays voltagewise			400kV:-24 1	32kV-11	•	
	ICT - nos and rating			200MVA-2	lnos		

S.N	Particulars Un		Units	2019-20	2020-21	2021-22
	Dedicated transmission line - voltage and length		Patna-1 &2 :4	00kV 139kmGaya	-1&2: 400kV 79.3	1km

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

DETAILS OF WATER CHARGES Name of the Company: NTPC Ltd.

Name of the Power Station and Stage/Phase: (Rs. In Lakhs) ITEM Sl.No. 2019-20 2021-22 2020-21 1 2 5 6 7 (A) Plant Type of Plant Closed Cycle 1 Type of Cooling Tower 2 Induced Draft Type of Cooling Water System 3 Closed Cycle 4 Any Special Features which may increase/reduce water **(B)** Quantum of Water : (Cubic Meter) Contracted Quantum 5 Allocation of Water 125 cusec 125 cusec 125 cusec 6 4081342 11863965 Actual water Consumption 7 Rate of Water Charges 8. Water Charges @Rs 18/- per 1000 gallons Capital cost recovery charges @ 317000/- per month for 2017-18 with an escalation of @10% per year Other charges/Fees, if paid as part of Water Charges 9 Total water Charges Paid 10 Note:

			An	nexure-XIX	
	Name of Utility:	NTPC Ltd.			
	Name of Generating Station:	Nabinagar			
	Station Configuration:	3*660			
	Capacity (MW):	1980			
	COD:	01.06.2022			
S.N	Particulars	Unit	2019-20	2020-21	2021-22
1	Plant Availability Factor (PAF)	%	88.14	92.00	92.42
2	Plant Load Factors (PLF)	0/0	77.85	80.25	81.05
2a	Loading factor	%	85.68	90.46	86.07
3	Scheduled Energy	MU	2442.3	4445.7	7497.4
4	Scheduled Generation	MU	2442.3	4445.7	7497.4
5	Actual Generation	MU	2564.9	4639.7	7921.5
	Actual Generation (ex-bus)	MU	2433.1	4391.8	7679.1
	Actual energy supplied to beneficiaries	MU	2699.9	4383.7	7547.3
	(Long Term, Medium Term and Short				
6	Quantum of coal consumption	MT	1567210	2838554	4720323
7	Value of coal	Rs. Lakh	45287	94473	167925
8	Specific Coal Consumption	kg/kWh	0.611	0.612	0.596
9	Gross Calorific Value of Coal	(Kcal/ Kg)	3740.35	3624.54	3770.96
10	Heat Contribution of Coal	(Kcal/ kWh)	2285.35	2218.22	2247.07
11	Cost Of Specific Coal Consumption	(Rs./kWh)	1		
	– Finally admitted by CERC (Ex-Bus)	(
12	Quantum of Qil Consumption	(KL)	2347.63	2744.72	2792.49
13	Value of Oil	(Rs lakh)	5426	6729	7464
14	Gross calorific value of oil	(kcal/lit)	9305	9197	9277
15	Specific Oil Consumption	(m1/1/W/h)	0.020	0.500	0.250
15	specific Off Consumption		0.920	0.390	0.330
16	Cost Of Specific Oil Consumption –	(Rs./kWh)			
17	Finally admitted by CERC	$(V_{aa}1/1-W/h)$	9.5(5.42	2.25
1/	Heat Contribution of Oil		8.56	5.43	3.25
18	Station Heat Rate	(Kcal/ kWh)	2293.70	2223.31	2250.31
19	Auxiliary Energy Consumption	(%)	5.31	5.34	5.32
20	Debt at the end of the year	(Rs. Crore)	4672.57	10307.05	10184.04
21	Equity - Average	(Rs. Crore)	2084.28	2133.82	3586.66
22	Working Capital – finally admitted by	(Rs. Crore)			
- 22	CERC		(0.47. (0	7110 70	11055 54
23	Capital cost – finally admitted by CERC	(Rs. Crore)	6947.60	7112.72	11955.54
24	Capacity Charges/ Annual	(Rs. Crore)	1497 38	1486 98	2508.98
	Fixed Cost (AFC)	()	1197100	1100170	2000190
	(a) Return on equity – post tax				
	(admitted by CERC upto 2009) and Pre				
	Tax post 2009				
<u> </u>	Absolute value	(Rs. Crore)	411.81	421.60	708.65
	Kate (h) interest on Lass	(%)	13.3	13.5	13.5
	(b) Interest on Loan		464 20	441.20	716.97
	Adsolute value	(RS. Crore)	404.29	441.20	/10.8/
	(a) Depreciation (finally allowed	(70)	9.70	7.04	7.34
	by CEPC)				
<u> </u>	Absolute value	(Rs (rore)	371 70	381.24	636.02
<u> </u>		(13. 01010)	5/1./0	301.24	030.05
┣───	Rate	(%)	5 3 5	5 36	5 3 2
	(d) Interest on working Capital	(/0)	5.55	5.50	5.52
	Absolute value	(Rs. Crore)	61.58	57.23	100.10
<u> </u>	Rate	(%)	12.05	11 25	10.10
<u> </u>	(e) Operation and maintenance cost	(/0)	12.05	11.20	10.5
	(finally admitted by				
<u> </u>	Absolute value		100 0	105 7	217 2
	Rote	(NS. CIOIC) (0/)	100.0	103./	347.3
<u> </u>	(f) Compensation Allowances	(/0) (Ps. Crore)	NA	NA	ΝA
<u> </u>	(g) Special Allowance	(Rs. Crore)	NA NA	NA NA	NA NA
L	(5) Special Anowallee	(10. 01010)	11/1	1171	11/1

			An	nexure-XIX	
	Name of Utility:	NTPC Ltd.			
	Name of Generating Station:	Nabinagar			
	Station Configuration:	3*660			
	Capacity (MW):	1980			
	COD:	01.06.2022			
S.N	Particulars	Unit	2019-20	2020-21	2021-22
	h) Supplementary Tariff - Emission				
	Absolute value	(Rs. Crore)			
	Rate	(%)			
	i) Ash Utilisation Expenses	(Rs. Crore)			
25	AFC	(Rs./ kWh)	3.25	3.23	2.72
26	Energy Charge	(Rs./kWh)	2.09	2.10	2.10
26.1	Supplemental Energy Charges - Emission	(Rs./kWh)	0	0	0
	Control				
27	Total tariff	(Rs. kWh)	5.34	5.33	4.82
28	Revenue realisation before tax	(Rs. Crore)			
29	Revenue realisation after tax	(Rs. Crore)			
30	Profit/ loss	(Rs. Crore)			
31	DSM Generation	(MU)	-9.23	-53.83	181.74
32	DSM Rate	(Rs/kWh)			
33	Revenue from DSM	(Rs. Crore)	0.88	-3.03	-3.62
34	Compensation received for operation	(Rs Crore)			
	below NAPAF				
35	Part load Compensation received from	(Rs Crore)			
	beneficiriaes				
36	Amount received from SCED	(Rs Crore)			

Note Note : Tariff order to be issued data as per petition filed.

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

DETAILS OF EMISSION CONTROL SYSTEM

Generating company:

Name of Generating station:

Installed Capacity (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
Α							
1	Gross Generation	MU					
2	Auxiliary Consumption - emission control	MU		ECS :	system under in	stallation.	
	Auxiliary Consumption - emission control	%					
3	Auxiliary Consumption (Normative)	%					
4	Hours of Operation	Hrs					
5	O&M Expenses (Actual) with Breakup as per	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										
			Investment	Approved*								
1	Capital Cost of Emission Control System		Approval		Approvai		Approvai		Approval		Approvai	
1.1	Hard Cost	Rs. Crore	838.96									
1.1.1	Civil Works	Rs. Crore										
1.1.2	Plant and Machinery and others	Rs. Crore										
1.1.3	Initial Spares procured	Rs. Crore										
1.2	IDC	Rs. Crore										
1.3	IEDC	Rs. Crore										
1.4	Others. Pls specify	Rs. Crore										
1.4	Completed Cost	Rs. Crore										

* 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