

## 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	
1	Name of Company		NTPC					
2	Name of Station/ Pit head or Non- Pit head		DADRI-TH/NON PIT HEAD					
	Stage		STAGE I					
3	Installed Capacity and Configuration	MW	840 (4X210)					
3.1	Date of Commercial Operation - Unit Wise		Unit#1: 01/01/1993, Unit#2: 01/02/1994, Unit#3: 01/04/1995, Unit#4: 01/12/1995					
3.2	Effective COD		01-12-1995					
	Make of Turbine		(Turbine-KRAFTWERK UNION DESIGN & Boiler-BHEL)					
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)		Steam Pr: 170 ata, MS/HRH Temp: 537/537 deg C, BHEL make KWU design Steam Turbine, BHEL make CE design Boiler.					
5	Type of BFP		Electrical Driven					
	Quantity		3					
6	Circulating water system		Closed Cycle					
7	Any other Site specific feature		NDCT					
	Unit heat rate	kCal/kWh	2273.77					
	Boiler efficiency	%	87.30%					
	Turbine cycle heat rate	kCal/kWh	1985.00					
8	<b>Fuels :</b>							
8.1	<b>Primary Fuel :</b>		Coal					
8.1.1	Annual Allocation under FSA	MMT	Annual allocation with CCL - 4.4 MMT Annual allocation with CCL I -1.31 MMT Annual allocation with ECL - 1.50 MMT Annual allocation with BCCL - 0.80 MMT					
	Annual Consumption	LMT	28.29	28.22	15.91	5.36	12.28	
	Annual Requirement at NAPAF	LMT	39.72	39.30	40.54	40.45	39.59	
8.1.2	Sources of supply/ procurement along with contracted quantity and grade of coal		CCL, ECL, BCCL, NCL (G7 to G15), Imported Coal, Pakri Barwadih, 8.01 MMT, CCL: G7 - G10 ECL: G10 & above BCCL: NLW coking coal W-III & W-IV and non-coking coal G5 to G17 incl washed power coal					
8.1.2.1	FSA	LoA	LMT	61.57	74.26	43.67	19.73	37.09
		MoU	LMT					
8.1.2.2	Imported		LMT	-	0.60	3.38	0.35	2.26
8.1.2.	Spot Market/e-auction		LMT					
8.1.3	Transportation Distance of the station from the sources of supply	KM	ECL-1226-1284, CCL-1146-1198, BCCL-1160-1224					
8.1.4	Mode of Transport		Rail Mode					
8.1.5	Maximum Station capability to stock primary fuel (for days consider availability as NAPAF)	Days & LMT	29 Days & 7 LMT					
8.1.6	Maximum stock maintained for primary fuel	MT	4,17,470	5,47,324	9,07,383	9,12,015	4,56,938	
	Date		02.04.2017	31.03.2019	31.03.2020	01.04.2020	08.12.2021	
8.1.7	Minimum Stock maintained for primary fuel	MT	-	-	2,79,788	2,44,800	289	
	Date		17.10.2017	27.10.2018	05.11.2019	31.03.2021	11.10.2021	
8.1.8	Average stock maintained for primary fuel	MT	1,35,110	1,21,000	6,22,678	5,14,241	2,38,079	
8.2	<b>Secondary Fuel :</b>							
8.2.1	Annual Allocation/ Requirement	KL	7971.6					
8.2.2	Sources of supply		BPCL/HPCL/IOCL					
8.2.3	Transportation Distance of the station from the sources of supply	KM	1000					

8.2.4 Mode of Transport			Rail				
8.2.5	Maximum Station capability to stock secondary fuels	KL	15838				
8.2.6	Maximum Stock of secondary oil actually maintained	KL	8522	6017	5747	5806	6034
8.2.7	Minimum Stock of secondary oil actually maintained	KL	5843	2754	1737	2965	2153
8.2.8	Average Stock of secondary oil actually maintained	KL	7164	4596	3651	4541	3912
9.	Cost of Spares :						
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	1,956.37	2,214.26	2,181.57	998.11	2,347.97
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)	-	-	-	-	-
9.4	Maintenance spares - cost	(Rs. Lakh)	3,463.57	3,747.19	3,904.49	4,229.05	4,639.34
9.5	Other spares procured with high lead procurement time	(Rs. Lakh)					
10	<b>Generation :</b>						
10.1	-Actual Gross Generation at generator terminals	MU	4,293.26	4,330.19	2,324.70	770.22	1,826.84
10.2	-Actual Net Generation Ex-bus	MU	3,916.59	3,947.88	2,088.74	643.50	1,616.67
10.3	-Scheduled Generation Ex-bus	MU	4,028.15	4,019.37	2,117.74	712.82	1,683.96
11	Average Declared Capacity (DC)	MW	711.81	693.91	764.66	751.56	623.10
	DC Peak HD %	%	-	-	-	99.50	86.59
	DC Off Peak HD %	%	-	-	-	99.76	86.54
	DC Peak LD %	%	-	-	-	97.13	79.27
	DC Off Peak LD %	%	-	-	-	97.13	79.21
	Actual Declared Capacity	MU	6,235.45	6,078.62	6,716.81	6,583.66	5,458.36
	Deemed Declared Capacity	MU					
12	Actual Auxiliary Energy Consumption excluding colony	MU	357.33	361.52	216.32	108.13	192.63
13	Actual Energy supplied to Colony from the station	MU	19.34	20.20	19.24	18.46	17.49
	Actual energy supplied to construction activities	MU		0.59	0.40	0.12	0.06
	Actual energy supplied to long term and medium term beneficiaries	MU	3,548.96	3,692.51	2,422.50	700.46	1,247.59
	Actual energy supplied in short term	MU					
	Energy supplied under bilateral arrangements	MU					
	Energy supplied through excahnges	MU	0.76	3.41	-	-	5.56
	Energy supplied under DSM	MU	(111.56)	(71.50)	(28.99)	(69.31)	(67.29)
	Energy supplied SCED				(54.03)	(13.91)	139.53
14	<b>Primary Fuel :</b>						
14.1	Consumption :						
14.1.1	Domestic coal						
	From Linked Mines	MT	28,29,441	27,99,372	14,01,528	5,35,727	12,11,781
	From Non-Linkd Mines	MT					
	From Integerated Mines	MT					
14.1.2	Imported coal	MT	-	22,567	1,89,743	41	16,673
14.1.3	Spot market/e-auction coal	MT					
14.2	<b>Gross Calorific Value (GCV) :</b>						
14.2.1	Domestic Coal (for each type)						
	(As Billed) - EM Basis as per third party	kCal/kg	4,564	4,367	4,516	4,376	4,327
	(As Received) - TM Basis as per third party	kCal/kg	3,858	3,763	3,678	3,595	3,663
14.2.2	Imported Coal						
	(As Billed) - ADB Basis	kCal/kg	-	-	5,675	5,878	4,806
	(As Received) - ADB Basis	kCal/kg	-	4,446	4,918	5,136	3,984
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	4,564	4,305	4,598	4,332	4,381
14.2.5	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Received)	kCal/kg	3,858	3,783	3,700	3,673	3,746
	Ash content in coal (%)	%	33.22	33.41	33.90	34.81	34.75
14.3	<b>Price of coal :</b>						
	Billed Cost (including adjustments)						
	Amount Charged by transporting agency upto delivery point						
14.3.1	Weighted Average Landed price of Domestic coal	(Rs/MT)	4,670	5,151	5,976	4,362	5,065

	Components of landed cost and break up		(Rs/MT)					
		1. Cost of coal,	(Rs/MT)	3,025	3,024	2,992	2,021	2,646
		2. Transportation Charges	(Rs/MT)	1,613	2,159	2,672	2,186	2,330
		3. Other charges	(Rs/MT)	32		313	155	88
14.3.2	Weighted Average Landed Price of Imported coal		(Rs/MT)	-	7,253	10,732	8,858	13,089
	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)	4,670	5,181	6,316	4,442	5,961
14.4	Blending :		% and MT ( of the total coal consumed )					
	Blending ratio of imported coal with domestic coal		%	-	0.80	11.92	0.01	1.36
14.4.2	Proportion of e-auction coal in the blending		%	-	-	-	-	-
	Coal stockyard capacity		LMT	7.00	7.00	7.00	7.00	7.00
14.5	Actual daily Average Coal stock maintained		LMT	1.35	1.21	6.23	5.14	2.38
			Days	5.63	5.04	25.94	21.43	9.92
14.5	<b>Actual Transit &amp; Handling Losses for coal/Lignite</b>							
14.5.1	<b>Pit- Head Station</b>							
14.5.1.1	Transit loss from linked mines		%	NA	NA	NA	NA	NA
14.5.1.2	Transit loss from non-linked mines including e-auction coal mines.		%	NA	NA	NA	NA	NA
14.5.1.3	Transit loss of imported coal		%	NA	NA	NA	NA	NA
14.5.2	<b>Non-Pit Head station</b>							
14.5.2.1	Transit loss from linked mines		%	1.18	0.62	0.56	0.67	0.62
14.5.2.2	Transit loss from non-linked mines including e-auction coal mines.		%					
14.5.2.3	Transit loss of imported coal		%	-	0.19	0.13	0.16	0.17
15	<b>Secondary Fuel Oil :</b>							
15.1	Consumption		KL	390.77	652.00	2,709.22	2,394.23	3,529.59
			HFO	970.11	1,505.83	-	-	-
15.2	Weighted Average Gross Calorific value (As received)		(kCal / Lit.)	9,432.00	9,639.00	9,703.11	9,624.42	9,624.67
			HFO	9,894.00	9,892.00			
15.3	Weighted Average Price		(Rs / KL)	45,598.39	53,253.40	34,155.10	-	61,192.25
			HFO	-	-	-	-	-
15.4	Actual Average stock maintained		KL	3,191.24	5,406.59	5,469.96	4,046.18	5,039.21
			HFO	4,919.00	2,350.15	2,350.15	-	-
16	<b>Weighted average duration of outages( unit-wise details):</b>							
16.1	Planned Outages		(Days)	7.81	33.81	6.72	8.32	10.54
16.2	Forced Outages		(Days)	1.96	4.13	0.74	0.91	4.50
	Within control of generator		(Days)					
	beyond control of generator		(Days)	1.96	4.13	0.74	0.91	4.50
16.3	Number of tripping		Nos.	8	14	12	4	5
16.4	Number of start-ups:		Nos.	27	31	31	27	48
16.4.1	Cold Start-up		Nos.	15	15	20	20	33
16.4.2	Warm Start-up		Nos.	7	8	2	4	10
16.4.3	Hot start-up		Nos.	5	8	9	3	5
17	NOx , SOx ,and other particulate matter emission in : at conditions specified by MoEF&CC							
17	Design emission (Stage-I)		SPM					100
			NOX					600
			SOX					600
	FGD installation date							
	NOX Control system installation date							

17.2	Actual emission (Stage-I)	SPM	mg/Nm <sup>3</sup>	As per Annexure A				
		NOX	mg/Nm <sup>3</sup>					
		SOX	mg/Nm <sup>3</sup>					
	Actual emission (Stage-II)	SPM	mg/Nm <sup>3</sup>					
		NOX	mg/Nm <sup>3</sup>					
		SOX	mg/Nm <sup>3</sup>					
	Ash mound capacity as on 31st March							
	Ash pond capacity as on 31st March							
	Fund available in Ash Fund Account as on 31st March		As per Annexure B					
	Amount utilized from Ash Fund Account							
19	Detail of Ash utilization % of fly ash produced	%	108.85	100.05	101.48	99.89	100.16	
	Ash available as on 31st March *	LMT	21.54	22.35	15.20	9.41	12.85	
	Ash utilized for construction of ash dyke	LMT	-	-	0.23	-	-	
	Ash utilized within plant premise, other than construction of ash dyke	LMT	0.02	0.01	0.02	-	-	
	Ash transported **	LMT	5.28	4.62	1.70	0.50	-	
	Average Distance	KM	150	150	150	150	-	
19.1	Conversion of value added product	(%)	84.27	79.06	82.64	55.69	95.88	
19.2	For making roads & embarkment	(%)	24.50	20.66	11.17	5.31	-	
19.3	Land filling	(%)	0.08	0.05	6.46	4.04	4.28	
19.4	Used in plant site in one or other form or used in some other site	(%)	-	-	1.51	-	-	
19.5	Any other use , Please specify	(%)	-	0.28	4.94	34.86	-	
20	Cost of spares actually consumed	( Rs. Lakh)	2,166.91	1,649.72	925.81	389.54	1,135.38	
21	Average stock of spares	(Rs. Lakhs)	14,380.77	13,686.87	13,531.70	14,024.25	14,274.36	
22	Number of employees deployed in O&M	Nos.	845	787	749	668	608	
22.1	- Executives	Nos.	379	359	352	298	270	
22.2	- Non Executives	Nos.	466	428	397	370	338	
22.3	- Corporate office	Nos.	2,568	2,241	2,016	1,815	1,728	
23	Man-MW ratio	Man/MW	0.46	0.43	0.41	0.37	0.33	
	Total billed amount		As per 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							
	Total amount under dispute							
24	Generation Switchyard Details		400kV - 30 Nos./ 220kV - 15 Nos; Total 400kV Tx Lines - 10 Nos.					
	No. of Bays voltages wise		03 Nos, 400kV/ 220kV, 3x167MVA					
	ICT - nos and rating							
	Dedicated transmission line - voltage and length							

\* Total ash generated during the Financial Year given

\*\* Weighted average distance of Ash Transported given

## 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	
1	Name of Company		NTPC					
2	Name of Station/ Pit head or Non- Pit head		DADRI-TH/NON PIT HEAD					
	Stage		STAGE II					
3	Installed Capacity and Configuration	MW	980 MW (2 X 490)					
3.1	Date of Commercial Operation - Unit Wise		U#5: 31.01.2010; U#6: 31.07.2010					
3.2	Effective COD		31.07.2010					
	Make of Turbine		(Turbine-KRAFTWERK UNION DESIGN & Boiler-BHEL)					
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)		(Turbine-KRAFTWERK UNION DESIGN & Boiler-BHEL)					
5	Type of BFP		Steam Driven					
	Quantity		3					
6	Circulating water system		Closed Cycle					
7	Any other Site specific feature		NDCT					
	Unit heat rate	kCal/kWh	2268.46					
	Boiler efficiency	%	85.34%					
	Turbine cycle heat rate	kCal/kWh	1935.9					
8	<b>Fuels :</b>							
8.1	<b>Primary Fuel :</b>		Coal					
8.1.1	Annual Allocation under FSA	MMT	Annual allocation with CCL - 4.4 MMT Annual allocation with CCL I -1.31 MMT Annual allocation with ECL - 1.50 MMT Annual allocation with BCCL - 0.80 MMT					
	Annual Consumption	LMT	36.55	39.44	28.25	21.59	24.65	
	Annual Requirement at NAPAF	LMT	46.38	45.64	47.64	47.73	44.76	
8.1.2	Sources of supply/ procurement along with contracted quantity and grade of coal		CCL, ECL, BCCL, NCL (G7 to G15), Imported Coal, Pakri Barwadih, 8.01 MMT, CCL: G7 - G10 ECL: G10 & above BCCL: NLW coking coal W-III & W-IV and non-coking coal G5 to G17 incl washed power coal					
8.1.2.1	FSA	LoA	LMT	61.57	74.26	43.67	19.73	37.09
		MoU	LMT					
8.1.2.2	Imported*		LMT	-	0.60	3.38	0.35	2.26
8.1.2.	Spot Market/e-auction*		LMT					
8.1.3	Transportation Distance of the station from the sources of supply	KM	ECL-1226-1284, CCL-1146-1198, BCCL-1160-1224					
8.1.4	Mode of Transport		Rail Mode					
8.1.5	Maximum Station capability to stock primary fuel (for days consider availability as NAPAF)	Days & LMT	29 Days & 7 LMT					
8.1.6	Maximum stock maintained for primary fuel	MT	4,17,470	5,47,324	9,07,383	9,12,015	4,56,938	
	Date		02.04.2017	31.03.2019	31.03.2020	01.04.2020	08.12.2021	
8.1.7	Minimum Stock maintained for primary fuel	MT	-	-	2,79,788	2,44,800	289	
	Date		17.10.2017	27.10.2018	05.11.2019	31.03.2021	11.10.2021	
8.1.8	Average stock maintained for primary fuel	MT	1,35,110	1,21,000	6,22,678	5,14,241	2,38,079	
8.2.1	Annual Allocation/ Requirement	KL						
8.2.2	Sources of supply		7971.6					
8.2.3	Transportation Distance of the station from the sources of supply	KM	BPCL/HPCL/IOCL					
8.2.4	Mode of Transport		1000					
8.2.5	Maximum Station capability to stock secondary fuels	KL	Rail					
8.2.6	Maximum Stock of secondary oil actually maintained	KL	15838					
8.2.7	Minimum Stock of secondary oil actually maintained	KL	8522	6017	5747	5806	6034	

8.2.8	Average Stock of secondary oil actually maintained	KL	5843	2754	1737	2965	2153
8.2.8	Average Stock of secondary oil actually maintained	KL	7164	4596	3651	4541	3912
9.	Cost of Spares :						
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	1,956.37	2,214.26	2,181.57	998.11	2,347.97
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)	-	-	-	-	-
9.4	Maintenance spares - cost	(Rs. Lakh)	3,463.57	3,747.19	3,904.49	4,229.05	4,639.34
9.5	Other spares procured with high lead procurement time	(Rs. Lakh)					
10	Generation :						
10.1	-Actual Gross Generation at generator terminals	MU	5,640.09	6,203.87	4,222.11	3,187.53	3,896.93
10.2	-Actual Net Generation Ex-bus	MU	5,353.94	5,892.48	3,958.88	2,986.95	3,662.37
10.3	<b>Scheduled Generation</b>	MU	5,498.88	5,828.69	4,104.84	3,085.62	3,741.30
10.4	AGC	MU	803.34	848.22	832.09	926.10	858.32
11	Average Declared Capacity (DC)	MW	803.34	848.22	832.09	926.10	858.32
	DC Peak HD %	%	-	-	-	99.08	98.10
	DC Off Peak HD %	%	-	-	-	99.51	98.19
	DC Peak LD %	%	-	-	-	100.56	92.00
	DC Off Peak LD %	%	-	-	-	100.54	90.99
	Actual Declared Capacity	MU	7,037.30	7,430.42	7,309.09	8,112.62	7,518.85
	Deemed Declared Capacity	MU					
12	Actual Auxiliary Energy Consumption excluding colony consumption	MU	286.15	311.40	263.24	200.58	234.56
13	Actual Energy supplied to Colony from the station	MU	0	0	0	0	0
	Actual energy supplied to construction activities	MU	0	0	0	0	0
	Actual energy supplied to long term and medium term beneficiaries	MU	5,326.08	5,726.14	4,394.25	3,472.22	3,894.60
	Actual energy supplied in short term	MU					
	Energy supplied under bilateral arrangements	MU					
	Energy supplied through exchanges	MU	1.26	6.36	-	0.04	2.02
	Energy supplied under DSM	MU	(144.95)	63.78	(145.97)	(98.67)	(78.93)
	Energy supplied SCED	MU			(211.19)	(339.71)	(84.91)
14	<b>Primary Fuel :</b>				Coal		
14.1	Consumption :						
14.1.1	Domestic coal						
	From Linked Mines	MT	36,54,693	39,36,659	26,51,771	21,51,117	23,04,470
	From Non-Linkd Mines	MT					
	From Integerated Mines	MT					
14.1.2	Imported coal	MT	-	7,612	1,73,257	7,578	1,60,111
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	4,564	4,367	4,516	4,376	4,327
	(As Received) - TM Basis as per third party	kCal/kg	3,838	3,763	3,678	3,595	3,663
14.2.2	Imported Coal						
	(As Billed) - ADB Basis	kCal/kg	-	-	5,675	5,878	4,806
	(As Received) - ADB Basis	kCal/kg	-	4,446	4,918	5,136	3,984
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	4,564	4,305	4,598	4,332	4,381
14.2.5	Weighted Average Gross Calorific value (Domestic+Imported+Spot/e-auction) (As Received)	kCal/kg	3,838	3,794	3,705	3,701	3,864
	Ash content in coal (%)	%	33.22	33.41	33.90	34.81	34.75
14.3	<b>Price of coal :</b>						
	Billed Cost (including adjustments)						
	Amount Charged by transporting agency upto delivery point						
14.3.1	Weighted Average Landed price of Domestic coal	(Rs/MT)	4,670	5,151	5,976	4,362	5,065



17.2	Actual emission (Stage-I)	SPM	mg/Nm <sup>3</sup>	As per Annexure-A				
		NOX	mg/Nm <sup>3</sup>					
		SOX	mg/Nm <sup>3</sup>					
	Actual emission (Stage-II)	SPM	mg/Nm <sup>3</sup>					
		NOX	mg/Nm <sup>3</sup>					
		SOX	mg/Nm <sup>3</sup>					
	Ash dyke capacity as on 31st March							
	Ash pond capacity as on 31st March							
	Fund available in Ash Fund Account as on 31st March		As per Annexure-B					
	Amount utilized from Ash Fund Account							
19	Detail of Ash utilization % of fly ash produced	%	108.85	100.05	101.48	99.89	100.16	
	Ash available as on 31st March *	LMT	21.54	22.35	15.20	9.41	12.85	
	Ash utilized for construction of ash dyke	LMT	-	-	0.23	-	-	
	Ash utilized within plant premise, other than construction of ash dyke	LMT	0.02	0.01	0.02	-	-	
	Ash transported	LMT	5.28	4.62	1.70	0.50	-	
	Average Distance **	KM	150	150	150	150	-	
19.1	Conversion of value added product	(%)	84.27	79.06	82.64	55.69	95.88	
19.2	For making roads & embankment	(%)	24.50	20.66	11.17	5.31	-	
19.3	Land filling	(%)	0.08	0.05	6.46	4.04	4.28	
19.4	Used in plant site in one or other form or used in some other site	(%)	-	-	1.51	-	-	
19.5	Any other use , Please specify	(%)	-	0.28	4.94	34.86	-	
20	Cost of spares actually consumed	(Rs. Lakh)	2,166.91	1,649.72	925.81	389.54	1,135.38	
21	Average stock of spares	(Rs. Lakhs)	14,380.77	13,686.87	13,531.70	14,024.25	14,274.36	
22	Number of employees deployed in O&M	Nos.	845	787	749	668	608	
22.1	- Executives	Nos.	379	359	352	298	270	
22.2	- Non Executives	Nos.	466	428	397	370	338	
22.3	- Corporate office	Nos.	2,568	2,241	2,016	1,815	1,728	
23	Man-MW ratio	Man/MW	0.46	0.43	0.41	0.37	0.33	
	Total billed amount		As per 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		400kV - 30 Nos./ 220kV - 15 Nos; Total 400kV Tx Lines - 10 Nos.					
	No. of Bays voltages wise		03 Nos, 400kV/ 220kV, 3x167MVA					
	ICT - nos and rating							
	Dedicated transmission line - voltage and length							

\* Total ash generated during the Financial Year given

\*\* Weighted average distance of Ash Transported given









## DETAILS OF WATER CHARGES

Name of the Company:

NTPC Ltd

Name of the Power Station and Stage/Phase:

National Capital Thermal Power Station, Dadri (1820 MW)

(Rs. In Lakhs)

Sl.No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
<b>(A)</b>	<b>Plant</b>					
1	Type of Plant	Coal based thermal power plant				
2	Type of Cooling Tower	NDCT				
3	Type of Cooling Water System	Closed				
4	Any Special Features which may increase/reduce water consumption					
<b>(B)</b>	<b>Quantum of Water : ( Cubic Meter)</b>					
5	Contracted Quantum					
6	Allocation of Water	8,93,00,491	8,93,00,491	8,93,00,491	8,93,00,491	8,93,00,491
7	Actual water Consumption	3,35,92,690	2,99,20,382	2,34,24,489	1,81,32,898	1,92,44,607
8.	Rate of Water Charges	Water Rate: Rs 12.48 per 1000 cft; Royalty: Rs 6 Lakh/Cusec/Year.				
9	Other charges/Fees , if paid as part of Water Charges					
10	<b>Total water Charges Paid (Rs Lakh)</b>	<b>317.70</b>	<b>282.57</b>	<b>201.62</b>	<b>171.75</b>	<b>140.62</b>

**Annexure-VI (D)****Details of capital Spares****Name of Company- NTPC Limited****Name of Power station : National Capital Thermal Power Station (1820 MW)****Rs. Lakhs**

<b>Sl. No.</b>	<b>ITEM</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>
(A)	Details of capital spares in Opening stock	24396	24185	24750	26006	26614
(B)	Details of capital spares procured during the year	1956	2214	2182	998	2348
(C)	Details of capital spares consumed during the year	2167	1650	926	390	1135
(D)	Details of capital spares closing at the end of the year	24185	24750	26006	26614	27827

Name of Utility:		NTPC Ltd																			
Name of Generating Station:		National Capital Thermal Power Station, Dadri St-I (840 MW)																			
Station Configuration:		4X210																			
Capacity (MW):		840																			
COD:		01-12-1995																			
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)	%	96.20	94.70	97.88	100.45	101.22	101.38	98.69	96.47	98.24	99.69	99.88	98.41	105.40	92.61	90.28	99.49	97.78	81.07	
2	Plant Load Factors (PLF)	%	92.84	91.98	95.69	98.02	99.36	100.59	92.26	86.63	86.48	79.38	81.54	56.28	44.93	58.34	58.85	31.51	10.47	24.83	
2a	Loading factor (%) ^	%													69.97	72.76	58.40	66.96	73.82		
3	Scheduled Energy	MU	6,173.57	6,167.18	6,414.79	6,621.26	6,645.11	6,601.62	5,886.52	5,798.95	5,935.69	5,435.17	5,702.96	3,935.82	3,144.33	4,028.15	4,019.37	2,117.74	712.82	1,683.99	
4	Scheduled Generation	MU	6,173.57	6,167.18	6,414.79	6,621.26	6,645.11	6,601.62	5,886.52	5,798.95	5,935.69	5,435.17	5,702.96	3,935.82	3,144.33	4,028.15	4,019.37	2,117.74	712.82	1,683.99	
5	Actual Generation (Gross)	MU													4,293.26	4,330.19	2,324.70	770.22	1,826.84		
6	Actual Generation (ex-bus)	MU													3,916.59	3,947.88	2,088.74	643.50	1,616.67		
7	Actual energy supplied to beneficiaries (Long Term, Medium Term and Short Term)	MU	6,173.57	6,167.18	6,414.79	6,621.26	6,645.11	6,601.62	5,886.52	5,798.95	5,935.69	5,435.17	5,702.96	3,935.82	3,144.33	3,548.96	3,692.51	2,422.50	700.46	1,247.59	
8	Quantum of coal consumption	MT	44,33,439	42,90,978	43,23,842	45,33,368	46,19,580	46,02,968	41,79,886	40,66,091	40,50,609	36,43,459	40,13,833	26,70,661	21,03,722	28,29,441	28,21,940	15,91,271	5,35,768	12,28,454	
9	Value of coal	Rs. Lakh																			
10	Specific Coal Consumption	kg/kWh	0.65	0.63	0.61	0.63	0.63	0.62	0.62	0.64	0.64	0.62	0.67	0.64	0.64	0.66	0.65	0.68	0.70	0.67	
11	Gross Calorific Value of Coal	(Kcal/ Kg)	3,729	3,792	3,906	3,816	3,778	3,838	3,879	3,776	3,767	3,841	3,597	3,733	3,844	3,858	3,783	3615**	3588**	3661**	
12	Heat Contribution of Coal	(Kcal/ kWh)	2,420	2,404	2,398	2,387	2,388	2,388	2,402	2,398	2,398	2,396	2,406	2,400	2,446	2,543	2,465	2,475	2,496	2,462	
13	Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)																			
14	Quantum of Oil Consumption	(KL)	1,081.05	1,425.02	804.90	809.87	1,008.79	632.47	824.50	1,165.70	1,042.00	1,350.55	696.89	1,519.66	1,145.88	1,360.88	2,157.82	2,709.22	2,394.23	3,529.59	
15	Value of Oil	(Rs. lakh)																			
16	Gross calorific value of oil	(kcal/lit)	9,709.85	9,807.14	9,693.79	9,840.81	9,782.29	9,673.43	9,616.39	9,614.98	9,709.76	9,763.02	9,804.54	9,840.60	9,876.31	9,761.63	9,815.54	9,703.11	9,624.42	9,624.67	
17	Specific Oil Consumption	(mlt/kWh)	0.16	0.21	0.11	0.11	0.14	0.09	0.12	0.18	0.16	0.23	0.12	0.37	0.35	0.32	0.50	1.17	3.11	1.93	
18	Cost Of Specific Oil Consumption – Finally admitted by CERC	(Rs./kWh)																			
19	Heat Contribution of Oil	(Kcal/ kWh)	1.07	0.94	1.15	0.66	1.36	0.71	1.17	1.75	1.59	2.26	1.14	3.60	3.42	3.09	4.89	11.31	29.92	18.60	
20	Quantum of Biomass consumption	MT																3,650.02			
21	Specific Biomass Consumption	kg/kWh																0.0016			
22	Gross Calorific Value of Biomass	(Kcal/ Kg)																5.57			
23	Heat Contribution of Biomass	(Kcal/ kWh)																3,548.74			
24	Station Heat Rate	(Kcal/ kWh)	2,421	2,405	2,399	2,393	2,389	2,387	2,389	2,404	2,399	2,398	2,407	2,404	2,449	2,546	2,470	2,491	2,526	2,481	
25	Auxiliary Energy Consumption	(%)	7.35	7.39	7.45	7.23	7.36	7.28	7.77	7.58	7.61	7.76	7.97	8.17	8.53	8.32	8.35	9.31	14.04	10.54	
26	Debt at the end of the year	(Rs. Crore)	218.13	158.55	100.82	60.38	26.38	0.59	-	-	-	-	-	-	-	-	-	-	-	-	
27	Equity - Average	(Rs. Crore)	857.97	858.39	858.81	859.62	860.29	850.69	850.65	849.92	849.11	848.07	847.11	847.11	847.11	847.11	847.11	857.29	857.29	517.30	
28	Working Capital – finally admitted by CERC	(Rs. Crore)	350.37	351.30	352.37	354.63	355.87	586.82	590.31	595.49	598.63	604.20	129.41	135.36	141.54	148.11	155.11	704.38	709.37	703.07	
29	Capital cost – finally admitted by CERC	(Rs. Crore)	1,716.01	1,717.42	1,718.80	1,721.52	1,723.74	1,702.35	1,702.21	1,699.78	1,697.09	1,693.62	1,690.43	1,690.43	1,690.43	1,690.43	1,690.43	1,724.34	1,724.34	1,724.34	
30	Capacity Charges/ Annual Fixed Cost (AFC)	(Rs. Crore)	342.08	336.21	330.62	326.94	325.24	476.44	482.53	490.26	500.04	515.88	416.10	431.36	446.68	461.85	496.05	608.79	640.99	582.05	
31	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009																				
32	Absolute value	(Rs. Crore)	120.12	120.17	120.23	120.35	120.44	199.75	197.44	195.01	194.82	199.14	166.12	166.92	166.92	166.92	166.92	161.02	161.02	97.16	
33	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%	19.71%	18.78%	18.78%	18.78%	
34	(b) Interest on Loan																				
35	Absolute value	(Rs. Crore)	39.59	29.98	20.58	12.68	6.74	1.26	0.03	-	-	-	-	-	-	-	-	-	-	-	
36	Rate – Weighted Average Rate	(%)	15.94%	15.92%	15.87%	15.73%	15.53%	9.58%	9.58%	9.58%	9.58%	9.58%	9.58%	9.58%	9.58%	9.58%	9.58%	9.58%	9.58%	9.58%	
37	(c) Depreciation (finally allowed by CERC)																				
38	Absolute value	(Rs. Crore)	59.18	59.22	59.27	59.37	59.44	23.99	24.04	23.87	23.69	23.57	23.95	23.95	23.95	23.95	23.95	29.95	29.95	3.59	
39	AAD																				
40	Rate	(%)	3.45%	3.45%	3.45%	3.45%	3.45%														
41	(d) Interest on working Capital																				
42	Absolute value	(Rs. Crore)	35.84	35.94	36.04	36.27	36.39	71.89	72.31	72.95	73.33	74.01	17.47	18.27	19.11	19.99	20.94	84.88	85.48	84.72	
43	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%	12.05%	12.05%	
44	(e) Operation and maintenance cost (finally admitted by CERC)																				
45	Absolute value	(Rs. Crore)	87.36	90.89	94.50	98.28	102.23	152.88	161.62	170.86	180.68	191.02	202.26	214.86	228.30	242.58	257.79	293.04	304.69	316.78	
46	Rate	(%)																			
47	(f) Compensation Allowances	(Rs. Crore)						2.10	2.52	2.94	2.94	3.57	6.30	7.35	8.40	8.40	6.30				
48	(g) Special Allowance	(Rs. Crore)																			
49	h) Supplementary Tariff - Emission Control																				
50	Absolute value	(Rs. Crore)																			
51	Rate	(%)																			
52	i) Ash Utilisation Expenses*	(Rs. Crore)																			
53	AFC	(Rs./ kWh)	0.66	0.63	0.62	0.61	0.61	0.83	0.84	0.86	0.87	0.90	0.86	0.89	0.92	0.81	0.87	1.06	1.12	1.02	
54	Energy Charge	(Rs./kWh)	1.54	1.61	1.69	1.63	1.99	2.14	2.37	2.97	2.95	3.25	3.63	3.69	3.31	3.21	3.89	4.44	3.36	3.19	
55	Supplemental Energy Charges - Emission Control	(Rs./kWh)																			
56	Total tariff	(Rs. kWh)	2.20	2.24	2.30	2.24	2.59	2.97	3.21	3.82	3.82	4.15	4.70	4.58	4.23	4.02	4.75	5.50	4.48	4.21	
57	Revenue realisation before tax	(Rs. Crore)																			
58	Revenue realisation after tax	(Rs. Crore)																			
59	Profit/ loss (Rs. Crore)*	(Rs. Crore)	160.43	147.44	227.59	350.82	260.30	328.71	663.18	894.72	2,415.38	1,003.96	896.42	746.65	824.80	879.28	855.50	805.81	686.47	(25.32)	
60	DSM Generation (MU)	(MU)	153.68	98.53	99.52	83.47	99.42	141.79	249.87	34.85	(123.76)	(126.66)	(241.66)	(177.65)	(163.73)	(111.56)	(71.50)	(28.99)	(69.31)	(67.33)	
61	DSM Rate (Ps/kWh)	Ps/kWh																			
62	Revenue from DSM (Rs. Crore)	(Rs. Crore)				(25.86)	(31.42)	(39.11)	(71.49)	(20.85)											

\*\*\* Tariff related details for the period 2019-20 to 2021-22 is as per Petition filed before CERC

Name of Utility:		NTPC Ltd														
Name of Generating Station:		National Capital Thermal Power Station, Dadri St-II														
Station Configuration:		2 X 490 MW														
Capacity (MW):		980														
COD:		31-07-2010														
S.N	Particulars	Unit	2009-10 (31.01.2010 to 31.03.2010)	2010-11 (01.04.2010 to 30.07.2010)	2010-11 (31.07.2010 to 31.03.2011)	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)	%	56.68	84.57	100.22	91.75	103.09	89.02	103.10	98.85	86.52	91.35	90.09	100.27	92.93	
2	Plant Load Factors (PLF)	%	55.44	73.45	90.99	78.40	85.65	73.21	68.48	63.60	65.70	72.27	49.05	37.13	45.39	
3	Scheduled Energy	MU	361.91	4,844.04	7,554.72	6,581.75	7,202.03	6,234.81	5,875.07	5,466.52	5,498.88	5,828.69	4,104.84	3,085.62	3,741.30	
4	Scheduled Generation	MU	361.91	4,844.04	7,554.72	6,581.75	7,202.03	6,234.81	5,875.07	5,466.52	5,498.88	5,828.69	4,104.84	3,085.62	3,741.30	
5	Actual Generation (Gross)	MU										5,640.09	6,203.87	4,222.11	3,187.53	3,896.93
6	Actual Generation (ex-bus)	MU										5,353.94	5,892.48	3,958.88	2,986.95	3,662.37
7	Actual energy supplied to beneficiaries (Long Term, Medium Term and Short Term)	MU	361.91	4,844.04	7,554.72	6,581.75	7,202.03	6,234.81	5,875.07	5,466.52	5,326.08	5,726.14	4,394.25	3,472.22	3,894.60	
8	Quantum of coal consumption	MT	2,41,131.90	31,91,550.00	47,89,755.00	43,78,194.00	46,09,328.00	41,13,659.00	38,18,466.00	33,96,510.00	36,54,693.00	39,44,271.00	28,25,028.27	21,58,694.62	24,64,581.01	
9	Value of coal	Rs. Lakh	7,617.36	1,08,991.43	1,98,607.19	1,75,559.24	2,11,950.45	2,10,850.09	1,92,199.53	1,63,861.68						
10	Specific Coal Consumption	kg/kWh	0.62	0.61	0.61	0.65	0.63	0.65	0.65	0.62	0.65	0.64	0.67	0.68	0.63	
11	Gross Calorific Value of Coal	(Kcal/ Kg)	3,993	3,932	3,917	3,672	3,807	3,638	3,678	3,855	3,838	3,794	3620**	3616**	3779**	
12	Heat Contribution of Coal	(Kcal/ kWh)	2,456	2,386	2,395	2,389	2,386	2,382	2,383	2,398	2,487	2,412	2,422	2,449	2,390	
13	Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)														
14	Quantum of Oil Consumption	(KL)	2,107.80	5,558.71	1,125.50	1,886.05	1,091.75	1,414.74	1,265.04	1,267.97	1,323.10	1,509.10	3,233.88	1,868.44	1,670.62	
15	Value of Oil	(Rs. lakh)														
16	Gross calorific value of oil	(kcal/lit)	9,783.56	9,771.82	9,805.65	9,788.09	9,813.35	9,830.33	9,860.02	9,883.66	9,858.14	9,830.02	9,683.26	9,626.78	9,624.71	
17	Specific Oil Consumption	(ml/kWh)	5.39	1.06	0.14	0.28	0.15	0.23	0.21	0.23	0.23	0.24	0.77	0.59	0.43	
18	Cost Of Specific Oil Consumption – Finally admitted by CERC	(Rs./kWh)														
19	Heat Contribution of Oil	(Kcal/ kWh)	47.74	10.33	1.41	2.74	1.46	2.21	2.12	2.30	2.31	2.39	7.42	5.64	4.13	
20	Biomass Consumption	MT												2,891.00	7,196.15	6,483.67
21	Sp. Biomass Consumption	kg/kWh												0.00	0.00	0.00
22	Gross Calorific Value of Biomass	(Kcal/ Kg)												3,646.80	3,618.09	3,830.87
23	Heat Contribution of Biomass	(Kcal/ kWh)												2.50	8.17	6.37
24	Station Heat Rate	(Kcal/ kWh)	2,503	2,396	2,397	2,392	2,388	2,384	2,385	2,401	2,490	2,415	2,432	2,463	2,400	
25	Auxiliary Energy Consumption	(%)	7.39	5.99	5.58	5.82	5.82	5.03	4.96	4.95	5.07	5.02	6.23	6.29	6.02	
26	Debt at the end of the year	(Rs. Crore)	1,492.10	1,522.43	2,848.54	2,794.28	2,759.50	2,559.30	2,333.44	2,091.99	1,843.63	1,598.88	1,345.21	1,094.51	843.82	610.00
27	Equity - Average	(Rs. Crore)	635.50	661.16	1,255.53	1,338.95	1,417.07	1,467.97	1,481.46	1,488.32	1,490.51	1,491.73	1,491.55	1,490.46	1,490.46	1,490.46
28	Working Capital – finally admitted by CERC	(Rs. Crore)	340.53	343.92	740.58	754.07	760.82	767.81	849.66	852.44	850.96	867.54	870.10	809.40	809.68	809.87
29	Capital cost – finally admitted by CERC	(Rs. Crore)	2,118.32	2,203.87	4,185.10	4,463.18	4,723.56	4,893.25	4,938.21	4,961.07	4,968.38	4,972.44	4,971.82	4,968.21	4,968.21	4,980.71
30	Capacity Charges/ Annual Fixed Cost (AFC)	(Rs. Crore)	493.45	507.66	973.99	1,032.89	1,068.44	1,095.72	1,055.62	1,046.10	1,028.80	1,015.04	1,007.97	973.40	953.96	935.27
31	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009															
32	Absolute value	(Rs. Crore)	154.04	158.40	300.80	317.12	335.62	355.82	299.89	302.74	303.19	303.43	304.20	279.94	279.94	280.27
33	Rate	(%)	24.24%	23.96%	23.96%	23.68%	23.68%	24.24%	20.24%	20.34%	20.34%	20.34%	20.40%	18.78%	18.78%	18.78%
34	(b) Interest on Loan															
35	Absolute value	(Rs. Crore)	128.65	130.19	249.33	269.18	264.80	254.52	232.71	206.28	180.02	150.31	129.03	108.90	87.59	65.18
36	Rate – Weighted Average Rate	(%)	8.73%	8.64%	8.88%	9.54%	9.54%	9.57%	9.51%	9.32%	9.15%	8.73%	8.77%	8.93%	9.04%	8.97%
37	(c) Depreciation (finally allowed by CERC)															
38	Absolute value	(Rs. Crore)	105.34	109.61	207.75	221.25	233.80	241.77	249.64	250.98	251.67	251.98	251.91	250.69	250.69	251.32
39	AAD															
40	Rate	(%)	4.97%	4.97%	4.96%	4.96%	4.95%	4.94%	5.06%	5.06%	5.07%	5.07%	5.07%	5.05%	5.05%	5.05%
41	(d) Interest on working Capital															
42	Absolute value	(Rs. Crore)	41.71	42.13	81.46	82.95	83.69	84.46	114.70	115.08	114.88	117.12	117.46	97.53	91.09	85.04
43	Rate	(%)	12.25%	12.25%	11.00%	11.00%	11.00%	11.00%	13.50%	13.50%	13.50%	13.50%	13.50%	1205.00%	1205.00%	1205.00%
44	(e) Operation and maintenance cost (finally admitted by CERC)															
45	Absolute value	(Rs. Crore)	63.70	67.33	134.65	142.39	150.53	159.15	158.68	171.02	179.04	192.19	205.37	236.33	244.65	253.45
46	Rate	(%)														
47	(f) Compensation Allowances															
48	(g) Special Allowance															
49	(h) Supplementary Tariff - Emission Control															
50	Absolute value	(Rs. Crore)														
51	Rate	(%)														
52	(i) Ash Utilisation Expenses *	(Rs. Crore)														
53	AFC	(Rs./ kWh)	1.44	1.48	1.42	1.51	1.56	1.60	1.55	1.53	1.52	2.07	1.86	2.34	2.97	2.49
54	Energy Charge	(Rs./kWh)	2.28	2.22	2.22	2.70	2.86	3.10	3.57	3.47	3.11	3.01	3.63	4.01	3.32	3.31
55	Supplemental Energy Charges - Emission Control	(Rs./kWh)														
56	Total tariff	(Rs. kWh)	3.72	3.70	3.64	4.21	4.42	4.70	5.12	5.00	4.63	5.08	5.49	6.35	6.29	5.80
57	Revenue realisation before tax	(Rs. Crore)														
58	Revenue realisation after tax	(Rs. Crore)														
59	Profit/ loss *	(Rs. Crore)	328.71	663.18	894.72	2,415.38	1,003.96	896.42	746.65	824.80	879.28	855.50	805.81	686.47	(25.32)	
60	DSM Generation	(MU)	(0.86)	190.99	(86.89)	(176.22)	(198.32)	(229.85)	(240.05)	(249.92)	(141.20)	(375.18)	(117.27)	(101.91)	(155.63)	
61	DSM Rate	(Rs/kWh)														
62	Revenue from DSM	(Rs. Crore)	(1.07)	44.80	6.64	13.82	24.52	40.61	48.15	45.76	29.65	17.78	25.42	19.56	17.61	

Not Applicable

Not Applicable



63	Compensation received for operation below NAPAF	(Rs. Crore)									54.29	21.76	47.98	50.12	25.14
64	Part load Compensation received from beneficiariaes	(Rs. Crore)									54.29	21.76	36.44	45.48	24.32
65	Amount received from SCED	(Rs Crore)									-	-	10.26	3.15	1.71

\*\* GCV of coal as received minus 85 kCal/Kg  
 ^ Additional data related to Loading factor (%) submitted  
 DSM Revenue (-)Received / (+) Paid  
 \* For entire Dadri Station (1820 MW)  
 \*\*\* Tariff related details for the period 2019-20 to 2021-22 is as per Petition filed before CERC

**DETAILS OF EMISSION CONTROL SYSTEM**

<b>Generating company: NTPC Ltd</b>
<b>Name of Generating station: National Capital Thermal Power Station, Dadri Stage-II</b>
<b>Installed Capacity (MW) : 980 MW</b>
<b>Type of Emission Control System: Wet based FGD System</b>
<b>Under Operation/Anticipated Operation Date:</b>

S.No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22	
<b>A</b>								
1	Gross Generation	MU	5,640.09	6,203.87	4,222.11	3,187.53	3,896.93	
2	Auxiliary Consumption - emission control	MU	Wet type FGD system date of operation for U#1 of Stage 2: 15th June 2022					
	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						

S.No.	Particulars	Units	Awarded Cost	
			Investment Approval	Approved*
1	Capital Cost of Emission Control System			
1.1	Hard Cost (incl GST)	Rs. Crore	596.74	569.41
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	30.82	-
1.3	IEDC	Rs. Crore	17.65	-
1.4	Others. Pls specify	Rs. Crore	-	-
1.4	Completed Cost	Rs. Crore	645.20	-

\* Hard cost as approved by Hon'ble Commission vide its order dated 17.11.2021 in Petition No 499/MP/2020

## DETAILS OF REAGENT USED FOR EMISSION CONTROL

<b>Generating company: NTPC Ltd</b>
<b>Name of Generating station: National Capital Thermal Power Station, Dadri Stage-II</b>
<b>Installed Capacity (MW) :980 MW</b>

**Reagent Type: Limestone**

**Type of Emission Control System Wet based FGD System**

S.No.	Particulars	Unit	2017-18	2018-19	2019-20	2020-21	2021-22	
<b>A.</b>								
1	Average Stock of Reagent	MT	NA	NA	NA	NA	NA	
2	Maximum Storage at Site	MT	NA	NA	NA	NA	NA	
3	Maximum Storage at Site	Days	NA	NA	NA	NA	NA	
<b>B.</b>			NA	NA	NA	NA	NA	
1	Opening Stock of Reagent as on 1st April	MT	NA	NA	NA	NA	NA	
2	Purity of Opening Stock (Reagent)	%	NA	NA	NA	NA	NA	
3	Quantity of Reagent Supplied by Supplier	MT	NA	NA	NA	NA	NA	
4	Adjustment (+/-) in Quantity Supplied	MT	NA	NA	NA	NA	NA	
5	Net Quantity of Reagent Received	MT	NA	NA	NA	NA	NA	
6	Total Cost of Reagent Received	Rs. Crore	NA	NA	NA	NA	NA	
7	Cost of Reagent Received	Rs./MT	NA	NA	NA	NA	NA	
8	Qty of Reagent Consumed	MT	NA	NA	NA	NA	NA	
9	Closing Stock of Reagent as on 31st March	MT	NA	NA	NA	NA	NA	
10	Purity of Reagent received	%	NA	NA	NA	NA	NA	
11	Gross Generation	MU	NA	NA	NA	NA	NA	
12	Fuel Type (coal/lignite)		Coal					
13	Sulphur content of Fuel	%	0.40	0.40	0.47	0.43	0.37	
14	Gross SHR	kCal/kWh						
15	Design SO2 removal efficiency (Applicable for Wet FGD)	%	Not Applicable					
16	SO2 removal norm (100/200/600 mg/Nm3)	mg/Nm3	200.00	200.00	200.00	200.00	200.00	
17	Weighthed Average Gross GCV of Fuel Received	kCal/kg	3,838	3,794	3,620	3,616	3,779	