Annexure-I										
Pro-forma	for furnishing Actual annual performance/operational data for the coal/lignite based	thermal genera	ting stations for	the 5-year perio	od from 2017-18 1	0 2021-22		Denie of lofe months of Mathematics of		
S.N	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology/		
1	Name of Company		NTPC Ltd.					Keinarka		
2	Name of Station/ Pit head or Non- Pit head		Tanda Thermal F	Power Station S	tage-I (non pit-he	ad)				
	Stage		Single Stage		0 \ 1	,				
3	Installed Capacity and Configuration	MW	4 X 110 = 440 M	W						
			U1-01-01-1990.							
	Deter of Operation Constraint Units Miles		U2- 01-04-1991	,						
3.1	Date of Commercial Operation - Unit Wise		U3- 01-10-1993	3						
			U4- 01-07-1998							
3.2	Effective COD		COD : 14.01.200	0 (date of Taked						
	Make of Turbine		BHEL(SKODA D	esign)	/					
					L	505 da = 0				
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)		Rated Pressure:	130 KSC SH/RF	1 out let temp: 53t	535 deg C				
			Type of Bollet &		SKODA Desigii)					
5	Type of BFP		Stage-I - Electric	Driven						
	Quantity		2 per unit : 1 in s	tandby 1 in serv	ice					
6	Circulating water system		Closed Cycle (II	DCT)						
7	Any other Site specific feature		Dry Ash Extraction	on System (Date	e of Commisionin	g U1.04.2014)				
	Design Unit heat rate	Kcal/Kwh			2565					
	Design Boiler efficiency	%			84.7					
	Design Turbine cycle heat rate	Kcal/Kwh			21/3					
8	Fuels :				Caal					
8.1	Primary Fuel :		00 I N/T	00 I MT	Coal	40.40 LNT	10.101.047	Eastha Otation (1700 MM)		
8.1.1			23 LMT	23 LM I	23 LMT	18.19 LMT	18.19 LMT	For the Station (1760 MW)		
			21.02	10.33	13.40	12.04	24.40			
812	Sources of supply/ procurement along with contracted quantity and grade of coal		20.34	21.03	ri Barwadih (G10)	BCCL (G7 to G	24.40 15) Imported	For the Station (1760 MW)		
0.1.2		LMT	23.00	23.00	23.00	18 19	18 10	For the Station (1760 MW)		
8.1.2.1	FSA Mol I	LMT	20.00	- 20.00	23.00	48.06	29.36	For the Station (1760 MW)		
8122	Imported*	LMT	-	-	-		1 25	For the Station (1760 MW)		
8.1.2.	Spot Market/e-auction*	MT					1120	For the Station (1760 MW)		
8.1.3	Transportation Distance of the station from the sources of supply	KM			500-600 KI	M		For the Station (1760 MW)		
8.1.4	Mode of Transport		1		RAIL			For the Station (1760 MW)		
815	Maximum Station canability to stock primary fuel (for days consider availability as NAPAE)	Dave & LMT			20 days & 7 75	IMT		For the Station (1760 MW)		
0.1.5		Days & LIVIT			25 days & 1.15					
8.1.6	Maximum stock maintained for primary fuel	MT	4,97,774.77	5,12,348.96	7,51,106.53	9,63,895.12	7,21,675.74	For the Station (1760 MW)		
	Date		14.04.2017	31.03.2019	30.03.2020	29.05.2021	15.01.2022	For the Station (1760 MW)		
8.1.7	Minimum Stock maintained for primary fuel	MI	9,870.20	8,654.71	41,704.64	1,91,382.90	4,630.41	For the Station (1/60 MW)		
0.4.0	Date	MT	21.10.2017	23.10.2018	12.10.2019	31.03.2021	13.10.2021	For the Station (1760 MW)		
0.1.0	Secondary Fuel :	IVI I	1,20,705.05	1,39,949.20	3, 10,947.33	0,04,002.04	2,90,309.90	For the Station (1760 MW)		
8.2.1	Annual Allocation/ Requirement	KI			8000/2000)		For the Station (1760 MW)		
822	Sources of supply			HPC		, DO is Used)		For the Station (1760 MW)		
8,2.3	Transportation Distance of the station from the sources of supply	KM	1	0	1500 km			For the Station (1760 MW)		
8.2.4	Mode of Transport				Rail			For the Station (1760 MW)		
8.2.5	Maximum Station capability to stock secondary fuels	KL			8000			For the Station (1760 MW)		
8.2.6	Maximum Stock of secondary oil actually maintained	KL			7700			For the Station (1760 MW)		
8.2.7	Minimum Stock of secondary oil actually maintained	KL			1500			For the Station (1760 MW)		
8.2.8	Average Stock of secondary oil actually maintained	KL			5000			For the Station (1760 MW)		
9.	Cost of Spares :									
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	2,161.28	353.77	18,921.01	2,344.98	1,073.45	For the Station (1760 MW)		
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)	-	-	-	-	-	l		
9.3	Initial spares-list, quantity and cost	(Rs. Lakh)	-	-	-	-	-	E # 01 // (1700 h 71)		
9.4	Maintenance spares - cost	(Rs. Lakh)	2,130.32	1,548.23	1,848.28	3,172.35	3,651.65	For the Station (1760 MW)		
9.5	Other spares procured with high lead	(Rs. Lakh)								
10	procurement ume	. ,						l		
10 1	-Actual Gross Generation at generator terminals	MU	2 277 00	2 274 70	2 050 21	1 566 60	1 156 95	1		
10.1	-Actual Net Generation Ex-hus	MU	2 887 35	2,3/1./9	2,009.31	1 334 74	1,400.00	1		
10.2	-Scheduled Generation Ex-bus	MU	2,007.33	2,031.41	1 827 77	1 400 95	1,233.02	1		
11	Average Declared Capacity (DC)	MW	366 73	355.62	361 13	372 48	357.85			
	· · · · · · · · · · · · · · · · · · ·		000.10	555.0E	551.10	5.2.40	001.00			

		DC Peak HD %	%	-	-	-	97.03	90.22	
		DC Off Peak HD %	%	-	-	-	97.60	90.38	
		DC Peak LD %	%	-	-	-	94.80	92.59	
		DC Off Peak LD %	%	-	-	-	95.08	92.39	
	Actual Declared Capacity		MU	3,212.56	3,115.26	3,172.21	3,262.93	3,134.79	
	Deemed Declared Capacity		MU						
12	Actual Auxiliary Energy Consumptio	on excluding colony	MU	375.76	304.98	276.74	219.67	211.45	
10	consumption	41		0.07	7.00				
13	Actual Energy supplied to Colony from the sta	ation	MU	8.37	7.88	8.64	9.29	8.12	
	Actual energy supplied to construction activiti	es	MU	0.50	7.51	8.83	2.98	1.47	
	Actual energy supplied to folg term and med		IVIU	2,930.29	2,091.01	1,027.00	1,400.13	1,200.30	
	Epergy supplied under bilateral arrangements		IVIU						
-	Energy supplied through exceptinges	•	MU						
	Energy supplied under DSM		MU	(51.03)	(40.06)	(62.68)	(66.21)	(52.63)	
	Energy supplied SCED		MU	(31.83)	(40.00)	(02.00)	(00.21)	(52.05)	
14	Primary Fuel :		WIO						
14 1	Consumption :								
	Consumption	From Linked Mines	МТ						
14.1.1	Domestic coal	From Non-Linkd Mines	MT	21.02.402	16.32.672	15.46.348	12.64.196	11.33.528	
		From Integerated Mines	MT		- , - , -	-, -,		,	
14.1.2	Imported coal		MT	-	-	-	-	20.860	
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	4,863	4,356	4,471	4,049	4,170	
14.2.1	Domestic Coal (for each type)		10.14	1.0.10	1.100	0.050	0.450	0.057	
		(As Received) - TM Basis as per third party	kCal/kg	4,246	4,122	3,856	3,456	3,657	
		(As Billed) - EM Basis as per third party	kCal/kg				4,604	4,454	
14.2.1	Domestic Coal (for NTPC OWNED MINE)		1.0-1/1.0				4 450	4 007	
		(As Received) - TM Basis as per third party	KCal/kg				4,158	4,007	
14.2.2	Imported Cool	(As Billed) - ADB Basis	kCal/kg					5,148	
14.2.2	Imported Coal	(As Received) - ADB Basis	kCal/kg					4,936	
1423	Spot market/e- auction coal	(As Billed)	kCal/kg						
14.2.5	oper manetic- addition coar	(As Received)	kCal/kg						
14.2.4	Weighted Average Gross Calorific val Billed)	ue (Domestic+Imported+Spot/e-auction) (As	kCal/kg	4,863	4,356	4,471	4,086	4,223	
14.2.5	Weighted Average Gross Calorific val	ue (Domestic+Imported+Spot/e-auction) (As	kCal/kg	4,246	4,122	3,856	3,636	3,689	
	Ach content in cool (%)		0/	20.00	27.06	20.50	40.50	20.00	
14.2	Price of cool :		70	30.20	37.90	30.00	40.52	30.09	
14.5	Billed Cost (including adjustments)								
	Amount Charged by transporting agency unto	delivery point							
1421	Weighted Average Landed price, of Domestic		(Po/MT)	2 964 00	2 622 00	4 091 00	2 629 00	4 067 00	
14.3.1	Components of landed cost and break up	Amount charged by Coal company	(RS/IVIT)	3,004.00	2 310 67	2 707 12	2 266 72	4,007.00	
	Components of landed cost and break up	Transport charges	(RS/IVIT)	2,473.70	2,310.07	1 373 63	1 371 15	2,303.30	
		Other charges	(Rs/MT)	1,000.10	1,312.00	1,010.00	1,071.10	10 53	
1432	Weighted Average I anded Price of Imported	coal	(Rs/MT)		-		-	14 601 22	
14.0.2	Components of landed cost and break up	Amount charged by Coal company	(Rs/MT)					14,569,60	
-		Transport charges	(Rs/MT)					-	
-		Other charges	(Rs/MT)					31.62	
14.3.3	Weighted Average Landed Price of Spot ma	rket / e-auction coal	(Rs/MT)						
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the Co	als	(Rs/MT)	3,864.00	3,623.00	4,081.00	3,638.00	4,302.00	
14.4	Blending :		(of the total				, i i i i i i i i i i i i i i i i i i i	·	
	-		coal consumed						
	Blending ratio of imported coal with domestic	Equivalent to	-	-	-	-	1.81		
14.4.2	Proportion of e-auction coal in the blending	% & MT	-	-	-	-	-		
				3.07	3.07	7 75	7 75	7 75	For the Station (1760 MW)
<u> </u>		MT	106000	144000	316000	559000	275000	For the Station (1760 MW)	
14.5	Actual daily Average Coal stock maintained		Davs	4	6	12	21	10	For the Station (1760 MW)
14.5	Actual Transit & Handling Losses for coal	Lianite	Dayo		<u> </u>	12	21	10	
		u ···							

14.0.1	Pit- Head Station								
14.5.1.1	Transit loss from linked mines		%	NA	NA	NA	NA	NA	For the Station (1760 MW)
14.5.1.2	Transit loss from non-linked mines including e	-auction coal mines.	%	NA	NA	NA	NA	NA	For the Station (1760 MW)
14.5.1.3	Transit loss of imported coal		%	NA	NA	NA	NA	NA	For the Station (1760 MW)
14.5.2	Non-Pit Head station								For the Station (1760 MW)
14.5.2.1	Transit loss from linked mines		%	0.76	0.80	0.79	0.78	0.79	For the Station (1760 MW)
14.5.2.2	Transit loss from non-linked mines including e	-auction coal mines.	%						For the Station (1760 MW)
14.5.2.3	Transit loss of imported coal		%						For the Station (1760 MW)
15	Secondary Fuel Oil :								(,
		HEO	KL	-	-	-	-	-	
15.1	Consumption	LDO	KL	1.036.00	1.622.00	1,142.00	1.273.00	1.410.00	
1.5.0	Weighted Average Gross Calorific	HEO	(kCal / Lit.)	-	-	-	-	-	
15.2	value (As received)	LDO	(kCal / Lit.)	9.599.00	9.589.14	9.216.95	9.219.70	9.310.00	
45.0		HFO	(Rs / KL)	-	-	-	-	-	
15.3	Weighted Average Price	LDO	(Rs / KL)		57.202.74	48.533.19	41.068.01	53.034.21	
45.4		HFO	KL	-	-	-	-	-	For the Station (1760 MW)
15.4	Actual Average stock maintained	LDO	KL	1.823.00	779.00	4.696.00	6.027.00	5.630.00	For the Station (1760 MW)
16	Weighted average duration of outages(unit-wise details):		.,				.,	(,
16.1	Planned Outages		(Davs)	15.92	21.69	23.10	12.08	0.92	
16.2	Forced Outages		(Davs)	7.01	6.37	3.39	3.20	3.15	
	Within control of generator		(Davs)		2.01	2.50	0	5.10	
<u> </u>	beyond control of generator		(Davs)	7.01	6.37	3.39	3,20	3.15	
16.3	Number of tripping		Nos.	27	26	22	14	24	
16.4	Number of start-ups:		Nos.	30	68	44	53	52	
16.4.1	Cold Start-up		Nos.	6	24	21	31	32	
16.4.2	Warm Start-up		Nos.	12	27	10	14	9	
16.4.3	Hot start-up		Nos	12	17	13	8	11	
							-		
17	NOx , SOx ,and other particulate matter emis	sion in : at conditions specified by MoEF&CC							
17.1	Design value of emission control equipment (s	pecify conditions)							
	FGD installation date				F	GD is yet to be op	perational		
	NOX Control system installation date								
		SPM	ma/Nm ³						
	Actual omission (Stage I)								
	Actual ethission (State-I)	NOX	ma/Nlm ³						
	Actual emission (Stage-I)	NOX	mg/Nm ³						
17.2	Actual emission (Stage-I)	NOX SOX	mg/Nm ³ mg/Nm ³			As per Annexu	ıre-A		
17.2		NOX SOX SPM	mg/Nm ³ mg/Nm ³ mg/Nm ³			As per Annexu	ıre-A		
17.2	Actual emission (Stage-I) Actual emission (Stage-II)	NOX SOX SPM NOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³			As per Annexu	ıre-A		
17.2	Actual emission (Stage-II)	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³			As per Annexu	ıre-A		
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³			As per Annexu	ire-A		
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³			As per Annexu	ire-A		
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³			As per Annexu	ire-A		
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³			As per Annexu	ire-A		
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³			As per Annexu As per Annexu	ire-A		
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund available in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	142.45	286.37	As per Annexu As per Annexu 157.17	ire-A ire-B 167.86	157.67	For the Station (1760 MW)
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund available in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March *	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ % LMT	142.45 7.09	286.37	As per Annexu As per Annexu 157.17 9.69	ire-A ire-B 167.86 16.74	157.67 22.56	For the Station (1760 MW) For the Station (1760 MW)
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ % LMT LMT	142.45 7.09 0.36	286.37 5.44	As per Annexu As per Annexu 157.17 9.69	ıre-A Ire-B 167.86 16.74	157.67 22.56	For the Station (1760 MW) For the Station (1760 MW) For the Station (1760 MW)
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilized from Ash Fund Account Detail of Ash utilized for Construction of ash dyke Ash utilized for construction of ash dyke Ash utilized for construction of ash dyke	NOX SOX SPM NOX SOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	142.45 7.09 0.36	286.37 5.44 -	As per Annexu	Ire-A	157.67 22.56 -	For the Station (1760 MW) For the Station (1760 MW) For the Station (1760 MW) For the Station (1760 MW)
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund available in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³	142.45 7.09 0.36 0.04	286.37 5.44 - 0.02	As per Annexu As per Annexu 157.17 9.69 - 0.03	ure-B 167.86 16.74 - 0.06	157.67 22.56 - 0.03	For the Station (1760 MW) For the Station (1760 MW) For the Station (1760 MW) For the Station (1760 MW)
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund available in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	142.45 7.09 0.36 0.04 4.13	286.37 5.44 - 0.02 8.87	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00	are-A 167.86 16.74 - 0.06 21.48	157.67 22.56 - 0.03 17.97	For the Station (1760 MW) For the Station (1760 MW) For the Station (1760 MW) For the Station (1760 MW) For the Station (1760 MW)
17.2 	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avaiable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported Average Distance **	NOX SOX SPM NOX SOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ 	142.45 7.09 0.36 0.04 4.13 150.00	286.37 5.44 - 0.02 8.87 150.00	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00	Ire-A Ire-B 167.86 16.74 - 0.06 21.48 150.00	157.67 22.56 - 0.03 17.97 150.00	For the Station (1760 MW) For the Station (1760 MW)
17.2 19 19 19.1	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported Average Distance ** Conversion of value added product	NOX SOX SPM NOX SOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ MT LMT LMT LMT LMT Km %	142.45 7.09 0.36 0.04 4.13 150.00 78.67	286.37 5.44 - 0.02 8.87 150.00 122.97	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 36.22	rre-A 167.86 16.74 0.06 21.48 150.00 27.78	157.67 22.56 0.03 17.97 150.00 29.39	For the Station (1760 MW) For the Station (1760 MW)
17.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported Average Distance ** Conversion of value added product For making roads &embarkment	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ Mg/	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 36.22 103.20	rre-A 167.86 16.74 - 0.06 21.48 150.00 27.78 128.32	157.67 22.56 - 0.03 17.97 150.00 22.39 79.65	For the Station (1760 MW) For the Station (1760 MW)
17.2 19 19 19.1 19.2 19.3	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund available in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported Average Distance ** Conversion of value added product For making roads &embarkment Land filling	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ Mg	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 36.22 103.20 17.75	rre-A 167.86 16.74 - 0.06 21.48 150.00 27.78 128.32 11.77	157.67 22.56 - 0.03 17.97 150.00 29.39 79.65 26.46	For the Station (1760 MW) For the Station (1760 MW)
17.2 19 19 19.1 19.2 19.3 19.4	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported Average Distance ** Conversion of value added product For making roads &embarkment Land filling Used in plant site in one or other form or used	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50 5.06	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39 -	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 36.22 103.20 17.75 -	are-A 167.86 167.86 16.74 - 0.06 21.48 150.00 27.78 128.32 11.77 -	157.67 22.56 - 0.03 17.97 150.00 29.39 79.65 26.46 -	For the Station (1760 MW) For the Station (1760 MW)
17.2 19 19 19.1 19.2 19.3 19.4 19.5	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized or construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported Average Distance ** Conversion of value added product For making roads &embarkment Land filling Used in plant site in one or other form or used Any other use , Please specify	NOX SOX SPM NOX SOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ 	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50 5.06	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39 - -	As per Annexu	rre-A 167.86 167.86 16.74 - 0.06 21.48 150.00 27.78 128.32 11.77 - -	157.67 22.56 0.03 17.97 150.00 29.39 79.65 26.46 - - 22.16	For the Station (1760 MW) For the Station (1760 MW)
17.2 19.1 19.1 19.2 19.3 19.4 19.5 20	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported Average Distance ** Conversion of value added product For making roads &embarkment Land filling Used in plant site in one or other form or used Any other use , Please specify Cost of spares actually consumed	NOX SOX SPM NOX SOX SOX	mg/Nm ³ mg/Nm ³ Mg/	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50 5.06 - 567.79	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39 - - 436.93	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 36.22 103.20 17.75 - - 36.14	rre-A 167.86 16.74 - 0.06 21.48 150.00 27.78 128.32 11.77 - - 9.87	157.67 22.56 - 0.03 17.97 150.00 29.39 79.65 26.46 - - 22.16 1.21	For the Station (1760 MW) For the Station (1760 MW)
17.2 19.1 19.1 19.2 19.3 19.4 19.5 20 21	Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Average Distance ** Conversion of value added product For making roads &embarkment Land filling Used in plant site in one or other form or used Any other use, Please specify Cost of spares actually consumed Average stock of spares	NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ % LMT LMT LMT LMT LMT LMT Km % % % % % (Rs. Lakh) (Rs. Lakhs)	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50 5.06 - - 567.79 4,593.57	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39 - - 436.93 4,652.54	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 36.22 103.20 17.75 - - 36.14 4,602.13	rre-A 167.86 167.86 16.74 - 0.06 21.48 150.00 27.78 128.32 111.77 - 9.87 10,820.56	157.67 22.56 - 0.03 17.97 150.00 29.39 79.65 26.46 - 22.16 1.21 18,511.80	For the Station (1760 MW) For the Station (1760 MW)
17.2 19 19 19 19.1 19.2 19.3 19.4 19.5 20 21 22	Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash utilized bistance ** Conversion of value added product For making roads & embarkment Land filling Used in plant site in one or other form or used Average stock of spares Number of employees deployed in Official Number of employees deployed in Official Average stock of spares	NOX SOX SPM NOX SOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ % LMT LMT LMT LMT LMT LMT Km % % % % % (Rs. Lakhs) Nos.	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50 5.06 - - 567.79 4,593.57 563	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39 - - 3 436.93 4,652.54 534	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 36.22 103.20 117.75 - - - 36.14 4,602.13 528	are-A 167.86 16.74 - 0.06 21.48 150.00 27.78 128.32 11.77 - - 9.87 10,820.56 514	157.67 22.56 - 0.03 17.97 150.00 29.39 79.65 26.46 - - 22.16 1.21 18,511.80 478	For the Station (1760 MW) For the Station (1760 MW)
17.2 19 19 19.1 19.2 19.3 19.4 19.5 20 21 22 22.1	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported Average Distance ** Conversion of value added product For making roads &embarkment Land filling Used in plant site in one or other form or used Any other use , Please specify Cost of spares actually consumed Average stock of spares Number of employees deployed in Of - Executives	NOX SOX SPM NOX SOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50 5.06 	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39 - - 436.93 4.652.54 534 332	As per Annexu	rre-A 167.86 167.86 16.74 0.06 21.48 150.00 27.78 128.32 11.77 - - - - - - - - - - - - -	157.67 22.56 0.03 17.97 150.00 29.39 79.65 26.46 - - 22.16 1.21 18,511.80 478 311	For the Station (1760 MW) For the Station (1760 MW)
17.2 19.1 19.1 19.2 19.3 19.4 19.5 20 21 22.1 22.2	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash utilized within plant premise, other than construction of value added product For making roads &embarkment Land filling Used in plant site in one or other form or used Any other use , Please specify Cost of spares actually consumed Average stock of spares Number of employees deployed in Oa - Executives - Non Executives	NOX SOX SPM NOX SOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ % LMT LMT LMT LMT LMT Km % % % % % % % % % % % % % % % % % %	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50 5.06 - - 567.79 4,593.57 563 342 221	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39 - 436.93 4,652.54 534 534 332 202	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 36.22 103.20 17.75 - - 36.14 4,602.13 528 344 184	rre-A 167.86 16.74 16.74 - 0.06 21.48 150.00 27.78 128.32 11.77 - 9.87 10,820.56 514 324 190	157.67 22.56 - 0.03 17.97 150.00 29.39 79.65 26.46 - - 22.16 1.21 18,511.80 478 311 167	For the Station (1760 MW) For the Station (1760 MW)
17.2 19.1 19.1 19.2 19.3 19.4 19.5 20 21 22 22.1 22.2 22.3	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Average Distance ** Conversion of value added product For making roads &embarkment Land filling Used in plant site in one or other form or used Any other use, Please specify Cost of spares actually consumed Average stock of spares Number of employees deployed in Od - Executives - Non Executives - Corporate office	NOX SOX SPM NOX SOX SOX I I I I I I I I I I I I I I I I I I I	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ % LMT LMT LMT LMT LMT LMT Km % % % % (Rs. Lakh) (Rs. Lakhs) Nos. Nos. Nos. Nos.	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50 5.06 - - 567.79 4,593.57 563 342 221 2,568	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39 - - 436.93 4,652.54 534 332 202 2,241	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 150.00 36.22 103.20 17.75 - - 36.14 4,602.13 528 344 184 2,016	rre-A 167.86 167.86 16.74 - 0.06 21.48 150.00 27.78 128.32 11.77 - - 9.87 10,820.56 514 324 1900 1,815	157.67 22.56 - 0.03 17.97 150.00 29.39 79.65 26.46 - 22.16 1.21 18,511.80 478 311 167 1,728	For the Station (1760 MW) For the Station (1760 MW)
17.2 19.1 19.1 19.2 19.3 19.4 19.5 20 21 22 22.1 22.2 22.3 23	Actual emission (Stage-II) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March Fund avalable in Ash Fund Account as on 31st March Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized or construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke Ash transported Average Distance ** Conversion of value added product For making roads & embarkment Land filling Used in plant site in one or other form or used Average stock of spares Number of employees deployed in O2 - Executives - Non Executives - Corporate office Man-MW ratio	NOX SOX SPM NOX SOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ % LMT LMT LMT LMT LMT LMT Km % % % % (Rs. Lakhs) (Rs. Lakhs) Nos. Nos. Nos. Nos. Nos. Nos.	142.45 7.09 0.36 0.04 4.13 150.00 78.67 58.21 0.50 5.06 - - 567.79 4,593.57 563 342 221 2,568 0.32	286.37 5.44 - 0.02 8.87 150.00 122.97 163.01 0.39 - - 436.93 4.652.54 534 332 202 2.241 0.30	As per Annexu As per Annexu 157.17 9.69 - 0.03 10.00 150.00 36.22 103.20 17.75 - - 36.14 4,602.13 528 344 184 2,016 0.30	rre-A 167.86 16.74 - 0.06 21.48 150.00 27.78 128.32 11.77 - 9.87 10,820.56 514 324 190 1,815 0.29	157.67 22.56 - 0.03 17.97 150.00 29.39 79.65 26.46 - 22.16 1.21 18,511.80 478 311 167 1,728 0.27	For the Station (1760 MW) For the Station (1760 MW)

	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								
	No. of Bays voltagewise		16	16	16	16		16	
	ICT - nos and rating				2: 400/220) KV			
	Dedicated transmission line - voltage and lengt	th	NA	NA	NA	NA	NA		
	* Total ash generated during the Financial Yea ** Weighted average distance of Ash Transpor	r given ted given	·						

			Annexure–I							
Pro-forma	for furnishing Actual annual performance	operational data for the coal/lignite based	thermal generatin	g stations for the	5-year period f	rom 2017-18 to 20)21-22		Pasia of Information/	
S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Methodology/ Remarks	
1	Name of Company								wethodology, Hemano	
2	Name of Station/ Pit head or Non- Pit head	•		TANDA THERM	AL POWER STA	ATION/ Non- Pit he	ad			
	Stage			Stage-2						
3	Installed Capacity and Configuration		MW	1320(2X660)MW	1					
3.1	Date of Commercial Operation - Unit Wise				Unit-1:	07.11.2019; Unit-2	2 : 01.07.2021			
3.2	Effective COD					01-07-2021				
	Make of Turbine									
4	Rated Steam Parameters (Also state the t	type of Steam turbine and Boiler)		Steam Parameter Rated Pressure: SH/RH out let te Type of Boiler &	er: 246.7 kSC mp: 568 deg C/5 Turbine: Superc	96 deg C ritical LMB make 8	k(GE-Alstom make	ə)		
5	Type of BFP			2 TDBFP & 1 ML	JREA	r		r		
6	Quantity Circulating water evotem			3 Closed Cycle (N						
6	Circulating water system			Closed Cycle (N	DCT) iroball aunarariti					
/			kCal/k/Mb	Bollel is double i	irebali supercriti					
	Boiler efficiency		%	1		85.61				
	Turbine cycle heat rate		kCal/kWh			1818				
8	Fuels :	1	Rod / Rom							
8.1	Primary Fuel :					Coal				
8.1.1	Annual Allocation under FSA		LMT			23 LMT	18.19 LMT	18.19 LMT	For the Station (1760 MW)	
	Annual Consumption		LMT			11.03	27.48	42.93		
	Annual Requirment at NAPAF		LMT	-	-	12.01	31.93	52.06		
8.1.2	Sources of supply/ procurement along w	ith contracted quantity and grade of coal		CCL	G7 to G10, Pakr	i Barwadih (G10),	BCCL (G7 to G15), Imported	For the Station (1760 MW)	
0101	ESA	LoA	LMT			23.00	18.19	18.19	For the Station (1760 MW)	
0.1.2.1	F3A	MoU	LMT			22.44	48.06	29.36	For the Station (1760 MW)	
8.1.2.2	Imported*		LMT	-	-	-	-	1.25	For the Station (1760 MW)	
8.1.2.	Spot Market/e-auction*		LMT						For the Station (1760 MW)	
8.1.3	Transportation Distance of the station from the	sources of supply	KM			500-600 KM			For the Station (1760 MW)	
8.1.4	Mode of Transport					RAIL			For the Station (1760 MW)	
8.1.5	Maximum Station capability to stock primary fu	el (for days consider availability as NAPAF)	Days & MT			29 days & 7.75 l	LMT		For the Station (1760 MW)	
8.1.6	Maximum stock maintained for primary fuel		MT			7,51,106.53	9,63,895.12	7,21,675.74	For the Station (1760 MW)	
	Date					30.03.2020	29.05.2021	15.01.2022	For the Station (1760 MW)	
8.1.7	Minimum Stock maintained for primary fuel		MT			41,704.64	1,91,382.90	4,630.41	For the Station (1760 MW)	
	Date					12.10.2019	31.03.2021	13.10.2021	For the Station (1760 MW)	
8.1.8	Average stock maintained for primary fuel		MT			3,18,947.35	6,04,662.64	2,96,389.90	For the Station (1760 MW)	
8.2	Secondary Fuel:		14			0000/0000			For the Station (1760 MW)	
8.2.1	Annual Allocation/ Requirement		KL	-		8000/2000			For the Station (1760 MW)	
8.2.2	Sources of supply	active of cumply	141		HPCI	L, BPCL, IUCL (LL	JU IS Used)		For the Station (1760 MW)	
8.2.3	Mede of Transport	sources of supply	KM			1500 Km			For the Station (1760 MW)	
8.2.5	Mode of Transport	/ fuels	KI	+		8000			For the Station (1760 MW)	
826	Maximum Stock of secondary oil actually main	ntained	KI	1		7700			For the Station (1760 MW)	
8.27	Minimum Stock of secondary oil actually main	tained	KI	1		1500			For the Station (1760 MW)	
8.2.8	Average Stock of secondary oil actually maintain	ained	KI	1		5000			For the Station (1760 MW)	
9.	Cost of Spares :			1					For the Station (1760 MW)	
9.1	Cost of Spares capitalized in the books of acco	ounts	(Rs. Lakh)	1		18,921.01	2,344.98	1,073.45	For the Station (1760 MW)	
9.2	Cost of spares included in capital cost for th	e purpose of tariff	(Rs. Lakh)				,-	20,596.18	(
9.3	Initial spares-list, quantity and cost		(Rs. Lakh)	1				20,596.18		
9.4	Maintenance spares - cost		(Rs. Lakh)			1,848.28	3,172.35	3,651.65	For the Station (1760 MW)	
9.5	Other spares procured with high lead	(Rs. Lakh)								
10	Generation :		1							
10.1	-Actual Gross Generation at generator term	MU	1		1,783,99	4,171,98	6.974 68			
10.2	-Actual Net Generation Ex-bus	MU	1		1.677.85	3.918.07	6.565.35			
10.3	-Scheduled Generation Ex-bus	MU	1		1.699.44	4.010.91	6.670.63			
11	Average Declared Capacity (DC)	MW	1	l	226.83	581.46	1,019.92			
		DC Peak HD %	%	1		-	98.52	100.37		
		DC Off Peak HD %	%			-	98.59	101.40		

		DC Peak LD %	%			-	92.17	91.88	
		DC Off Peak LD %	%			-	92.34	91.12	
	Actual Declared Capacity		MU			1.992.50	5.093.62	8.934.47	
	Deemed Declared Capacity		MU			,		.,	
	Actual Auxiliary Energy Consumption	n excluding colony				100.11		100.00	
12	consumption	5 ,	MU			106.14	253.91	409.33	
13	Actual Energy supplied to Colony from the stat	ion	MU			-	-	-	
	Actual energy supplied to construction activitie	S	MU					-	
	Actual energy supplied to long term and mediu	- Im term beneficiaries	MU			1 //5 98	3 761 83	6 013 38	
	Actual energy supplied in short term		MU			1,440.00	5,701.00	0,010.00	
	Energy supplied under bilateral arrangements		MLL						
			IVIU MLL					10.61	
	Energy supplied through excannges		MU			-	-	19.01	
	Energy supplied under DSM		MU			(21.59)	(92.83)	(105.28)	
	Energy supplied SCED		MU			221.81	181.79	469.85	
14	Primary Fuel :								
14.1	Consumption :								
		From Linked Mines	MT			11 03 100 00	27 47 624 00	41 89 305 00	
14.1.1	Domestic coal	From Non-Linkd Mines	MT			11,00,100.00	21,41,024.00	+1,00,000.00	
		From Integerated Mines	MT						
14.1.2	Imported coal	÷	MT					1.04.065.00	
14.1.3	Spot market/e-auction coal		MT					1. 1	
14.2	Gross Calorific Value (GCV)								
1-7.2		(As Billed) - FM Basis as per third party	kCal/ka			1 165	1 040	1 170	
14 2 1	Domestic Coal (for each type)	(ris billed) - Livi basis as per unicipality	KOarky			-,+03	7,043	, ,170	
14.2.1	Domostic Coar (ior each type)	(As Received) - TM Basis as per third party	kCal/kg			3,789	3,456	3,657	
		(A - Dillard) EAA Darsia are man third marks	-				4 004	4 45 4	
		(As Billed) - EM Basis as per third party	KCal/kg				4,604	4,454	
14.2.1	Domestic Coal (for NTPC OWNED MINE)	(As Received) - TM Basis as per third party	kCal/kg				4 158	4 007	
		(, le risserred) - fill Basie as per ama party	nouring				1,100	1,001	
1422	Imported Coal	(As Billed) - ADB Basis	kCal/kg					5,148	
17.2.2	Imported Obar	(As Received) - ADB Basis	kCal/kg					4,936	
44.0.0	Constanting suction and	(As Billed)	kCal/kg						
14.2.3	Spot market/e- auction coal	(As Received)	kCal/kg						
	Weighted Average Gross Calorific value	e (Domestic+Imported+Spot/e-auction) (As							
14.2.4	Billed)		kCal/kg			4,465	4,086	4,223	
	Weighted Average Gross Calorific valu	e (Domestic+Imported+Spot/e-auction) (As							
14.2.5	Resolved)	le (Domestic + Imported + Spotre-auction) (As	kCal/kg			3,789	3,530	3,723	
			-						
	Ash content in coal (%)					38.58	40.52	38.89	
14.3	Price of coal :								
	Billed Cost (including adjustments)					3,703.85	3,445.04	3,638.12	
	Amount Charged by transporting agency upto	delivery point				3,788.85	3,530.04	3,723.12	
14.3.1	Weighted Average Landed price of Domestic	coal	(Rs/MT)			4,113.00	3,638.00	4,067.00	
			(*****						
		Amount charged by Coal company	(Rs/MT)			2,734.00	2,266.72	2,563.58	
	Components of landed cost and break up	Transport charges	(Rs/MT)			1 380 00	1 371 15	1 483 83	
<u> </u>	1	Other charges	(Rs/MT)	1		-	.,00	19.53	
1/1 2 2	Weighted Average Landed Price of Imported	coal	(Rs/MT)			-	-	1/ 601 00	
14.3.2	ander Fried Average Lander Fried of imported ((135/1011)		-	+		14,001.22	
		Amount charged by Coal company	(Rs/MT)					14,569.60	
├ ───	Components of landed cost and break up	Trapapart charges			-	+			
	4		(RS/WIT)					-	
44.5.5		Uther charges	(Rs/MT)					31.62	
14.3.3	weighted Average Landed Price of Spot mar	ket / e-auction coal	(Rs/MT)						
L	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the Coa	ls	(Rs/MT)			4,113.00	3,638.00	4,302.00	
			% and MT						
14.4	Blending :		(of the total coal						
			consumed)						
			Equivalent to						
	Biending ratio of imported coal with domestic of	coal	domestic coal			-	-	2.42	
14 4 2	Proportion of e-auction coal in the blending		% & MT			-	-	-	
17.7.4	Coal stockyard capacity		IMT			7 75	7 75	- 7 75	For the Station (1760 MW/)
├ ───	ooai sioonyaru capacity	1			-	1.10	1.10	1.13	For the Station (1760 MW)
14.5	Actual daily Average Coal stock maintained					3.10	5.59	2.75	For the Station (1760 MW)
145	Actual Transit & Handling Losses for coal/Lignite		Days			12	21	10	For the Station (1700 MW)
14.5	Pit Used Otation	ignite							
14.5.1	Pit- Head Station								For the Station (1760 MW)

14.5.1.1	Transit loss from linked mines		%		NA	NA	NA	For the Station (1760 MW)
14512	Transit loss from non-linked mines including e-	auction coal mines.	%		NA	NA	NA	For the Station (1760 MW)
14.5.1.3	Transit loss of imported coal		%		NΔ	NΔ	NΔ	For the Station (1760 MW)
14.5.1.5	Non Bit Head station		70		110	110	11/5	For the Station (1760 MW)
14.5.2	Transit less from linked mines		0/					For the Station (1700 MW)
14.5.2.1			%		0.79	0.78	0.79	For the Station (1760 MW)
14.5.2.2	Transit loss from non-linked mines including e-	auction coal mines.	%					For the Station (1760 MW)
14.5.2.3	I ransit loss of imported coal		%					For the Station (1760 MW)
15	Secondary Fuel Oil :							
15 1	Consumption	HFO	KL					
10.1	Consumption	LDO	KL		5,969.00	3,293.00	8,541.00	
45.0	Weighted Average Gross Calorific	HFO	(kCal / Lit.)					
15.2	value (As received)	LDO	(kCal / Lit.)		9.149.00	9,200,16	9.310.00	
		HEO	(Rs / KL)					
15.3	Weighted Average Price		(Rs / KL)		48 533 19	41 068 01	53 034 21	
		HEO			40,000.10	41,000.01	00,004.21	For the Station (1760 MW)
15.4	Actual Average stock maintained	10	KL KL		4 606 00	6 007 00	E 620.00	For the Station (1760 MW)
16	Weighted everyone duration of outerno()	LDU	<u>NL</u>		 4,090.00	0,027.00	5,630.00	For the Station (1760 MW)
10	Weighted average duration of outages(t	unit-wise details).	(5.)					
16.1	Planned Outages		(Days)		0	33	34	
16.2	Forced Outages		(Days)		11	4	13	
	Within control of generator							
	beyond control of generator				11	4	13	
16.3	Number of tripping		Nos.		22	14	23	
16.4	Number of start-ups:		Nos.	1	27	17	31	
16.4.1	Cold Start-up		Nos.		1	1	7	
16.4.2	Warm Start-up		Nos		 7	2	1	1
16.4.2	Hot start up		Nos.		10	14		
10.4.3	NOV SOV and other particulate matter aming	tion in t at conditions anacified by MaEERCO	INUS.		19	14	20	
17	NOX, SOX, and other particulate matter emiss	sion in : at conditions specified by MOEF&CC	0				100	
17.1	Design value of emission control equipment (s	pecity conditions)	mg/Nm°			SOX; 100; NOX:	100	Norms as per MOEF&CC
	FGD installation date				FC	GD work under pro	ogress	
	NOX Control system installation date							
		SPM	ma/Nm ³				•	
	Actual emission (Stage I)	NOX						
	Actual emission (Stage-I)		mg/ivm*					
17.2		SOX	mg/Nm ³			As ner Annexur	Δ	
17.2		SPM	mg/Nm ³				577	
	Actual emission (Stage-II)	ΝΟΧ	mg/Nm ³					
		007	111g/14111					
		SUX	mg/Nm°				1	
-	Ash dyke capacity as on 31st March							
	Ash pond capacity as on 31st March							
	Fund avalable in Ash Fund Account as on							
	31st March					As per Annexure	эB	
	Amount utilized from Ash Fund Account							
19	Detail of Ash utilization % of fly ash produced		%		157.17	167.86	157.67	For the Station (1760 MW)
	Ash available as on 31st March *		LMT		9.69	16 74	22.56	For the Station (1760 MW)
	Ash utilized for construction of ash dyke		LMT		-	-		For the Station (1760 MW)
-	Ash utilized within plant premise other than				 	_	_	
1	construction of och duko		LMT		0.03	0.06	0.03	For the Station (1760 MW)
		<u> </u>	1.847		 40.00	04.40	47.07	For the Statics (1760 MMA)
L			LMI		 10.00	21.48	17.97	For the Station (1760 MW)
	Average Distance **	l	Km		 150.00	150.00	150.00	For the Station (1/60 MW)
19.1	Conversion of value added product		%		36.22	27.78	29.39	For the Station (1760 MW)
19.2	For making roads &embarkment		%		103.20	128.32	79.65	For the Station (1760 MW)
19.3	Land filling		%		17.75	11.77	26.46	For the Station (1760 MW)
19.4	Used in plant site in one or other form or used	in some other site	%		-	-	-	For the Station (1760 MW)
19.5	Any other use , Please specify		%		-	-	22.16	For the Station (1760 MW)
20	Cost of spares actually consumed		(Rs. Lakh)		36.14	9.87	1.21	For the Station (1760 MW)
21	Average stock of spares		(Rs. Lakhs)		4.602.13	10.820.56	18.511.80	For the Station (1760 MW)
22	Number of employees deployed in O8	М	Nos		528	51/	/78	For the Station (1760 MW)
22	- Executives	Noo		 2//	204	4/0	For the Station (1760 MW)	
22.1	Non Executives	INUS.		 344	324	311	For the Station (1700 WW)	
22.2		INOS.		 184	190	167	For the Station (1760 MW)	
22.3		Nos.		 2,016	1,815	1,728	For the Station (1/60 MW)	
23	Man-MW ratio	Man/MW		0.30	0.29	0.27	For the Station (1760 MW)	
	Total billed amount							
	Total received amount within due date							
	Total amount received beyond due date							

	Total amount pending				As per Annexur	e C	
	Total amount under dispute						
	Total rebate given						
	Total LPSC recovered						
24	Generation Switchyard Details						
	No. of Bays voltagewise			12	12		
	ICT - nos and rating				2: 400/220 K	/	
	Dedicated transmission line - voltage and lengt	h		NA	NA	NA	
	* Total ash generated during the Financial Year	r given					
	** Weighted average distance of Ash Transpor						

						Annexure-VI (C)
	DETAILS OF WATER CHARGES					
	Name of the Company:	NTPC Ltd.				
	Name of the Power Station and Stage/Phase:	Tanda Therma	al Power Stati	on (1760 MW	')	
						(Rs. In Lakhs)
SI.No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
(A)	Plant		Tanda Therma	I Power Statio	on Stage-I & S	tage II
1	Type of Plant			Coal Based	Plant	
2	Type of Cooling Tower		Stage	I: IDCT; Stag	ge II: NDCT	
3	Type of Cooling Water System			CLOSED)	
4	Any Special Features which may increase/reduce water					
4	consumption					
(B)	Quantum of Water :					
5	Contracted Quantum (Cusec)	45	45	85	85	85
6	Allocation of Water (Cusec)	45	45	85	85	85
7	Actual water Consumption (Cusec)	14.16	11.37	20.20	24.35	32.07
8.	Rate of Water Charges	Water Ra	ite: Rs 12.48 pe	er 1000 cft; R	oyalty: Rs 6 La	akh/Cusec/Year.
9	Other charges/Fees, if paid as part of Water Charges	440.04	40.40	200 54	074 70	000 70
10	Total water Charges Paid (Rs Lakh)	140.64	10.19	200.54	2/4./3	200.72
				-		

Annexure-VI (D)

Detais of capital Spares

Name of Company : NTPC Limited Name of Power station : Tanda STPS (440 MW + 1320 MW)

in Rs Lakhs

SI . No.	ITEM	2012-13	2013-14	2014-15	2015-16	2016-17
(A)	Details of capital spares in Opening stock	12907.84	14501.33	14418.17	33303.05	35638.16
(B)	Details of capital spares procured during the year	2161.28	353.77	18921.01	2344.98	1073.45
(C)	Details of capital spares consumed during the year	567.79	436.93	36.14	9.87	1.21
(D)	Details of capital spares closing at the end of the year	14501.33	14418.17	33303.05	35638.16	36710.41

Name of the Company: NTPC LTD

Name of the Power Station : Tanda Super Thermal Powe Station, Stage-II

(in Rs Lakhs)

Details of I	incluental Expenses during Constr	Letton (IEDC) with break-		
SI. No.	Item-wise details of expenditure	Expenditure as on	Expenditure as on actual	Time Overrun
	with break-up	3000	COD of unit/station	
•	Lload of Functions			
A	Head of Expenses:	44.040.57	40.070.74	
1		11,210.57	18,070.74	
2	Depreciation	1,365.13	1,526.73	
3	Power Charges	634.04	955.70	
4	R&M - Bldg	81.67	72.31	
5	R&M - Others	1,280.13	1,516.83	
6	Rates&taxes	16.20	17.07	
/	Communication Exp	80.13	147.83	
8	Travel exp	498.01	702.57	
9	Tender Expenses	207.28	207.27	
10	Advertisement & publicity	4.11	4.16	
11	Security exp	2,673.91	4,192.91	
12	Entertainment exp	38.12	75.06	
13	Guest house exp	187.58	226.74	
14	Professional Charges	71.74	81.16	
15	Legal Exp	95.70	160.89	
16	EDP Exp	6.89	6.86	24 months (which was
17	Printing exp	7.39	8.45	beyond the control of
18	Community development	7.04	6.89	generator)
19	Vehicle hiring	574.21	694.17	
20	Tpt veh rung	0.40	13.35	
21	Misc Exp	119.84	131.81	
22	Bank Charges	39.64	39.43	
23	IEDC trfd from CC	6,687.57	8,754.72	
Α	Total Expenses	25,887.30	37,613.66	
В	Income			
1	Power Chrgs Recovered	20.29	32.10	
2	Sale tender	0.26	0.26	
3	Transit Hostel recoveries	0.15	0.15	
4	Misc Income	48.15	70.76	
5	Water Charges Recovered	0.05	0.06	
	Total Income	68.91	103.33	
	Total IEDC	25,818.39	37,510.34	
	•			

																			Annexure-XIX	
	Name of Utility:	NTPC Ltd.																		
	Name of Generating Station:	Tanda Therma	al Power Station	Stage-I																
	Station Configuration:	4 X 110 = 440	MW																	
	Capacity (MW):	440 MW																		
	COD:	COD : 14.01.2	000 (date of Tak	eover)																
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)	%	2004.00	2000 00	2000 0.	92.62	89.58	93.06	93.51	89.16	84.46	95.16	89.56	94.63	94.60	94.71	91.84	92.74	95.65	91.90
2	Plant Load Factors (PLF)	%				92.08	89.09	92.36	92.58	87.67	83.36	92.85	85.44	84.43	87.10	85.04	61.53	53.28	40.65	37.80
2a	Loading factor ^	%														90.74	77.34	74.22	69.70	68.83
3	Scheduled Energy	MU				3,123.47	3,021.77	3,133.67	3,143.27	2,982.13	2,827.59	3,149.38	2,898.04	2,871.66	2,954.59	2,939.28	2,091.47	1,827.77	1,400.95	1,288.44
4	Scheduled Generation	MU				3,123.47	3,021.77	3,133.67	3,143.27	2,982.13	2,827.59	3,149.38	2,898.04	2,871.66	2,954.59	2,939.28	2,091.47	1,827.77	1,400.95	1,288.44
5	Actual Generation (Gross)	MU														3,277.96	2,371.79	2,059.31	1,566.69	1,456.86
6	Actual Generation (ex-bus)	MU														2,887.35	2,051.41	1,765.09	1,334.74	1,235.82
-	Actual energy supplied to beneficiaries																0.004.04	4 007 05	1 100 10	4 000 00
/	(Long Term, Medium Term and Short	MU	2,919.56	2,934.32	3,114.34	3,123.47	3,021.77	3,133.67	3,143.27	2,982.13	2,827.59	3,149.38	2,898.04	2,871.66	2,954.59	2,938.29	2,091.01	1,827.85	1,400.13	1,288.36
9	Ouantum of coal consumption	МТ	25.05.357	25.67.959	26 70 137	26.01.210	25 73 590	25.99.123	29 20 793	30.28.310	20 47 064	20.07.202	24.05.011	22.06.153	22.24.234	21 02 402	16 32 672	15 46 349	12.64.106	11 54 399
9	Value of coal	Relakh	23,33,337	23,07,030	20,70,137	20,91,210	23,73,300	23,00,123	20,20,703	30,20,310	23,47,304	29,01,292	24,33,311	22,30,133	22,24,234	21,02,402	10,32,072	13,40,340	12,04,190	11,54,500
10	Specific Coal Consumption	kg/kWh	0.78	0.77	0.76	0.76	0.75	0.73	0.79	0.89	0.82	0.81	0.79	0.73	0.69	0.64	0.69	0.75	0.81	0.79
11	Gross Calorific Value of Coal	(Kcal/ Kg)	3.516	3.562	3.612	3.601	3.644	3.740	3,449	3,109	3.340	3.425	3.521	3,740	4.042	4,246	4,122	3771 **	3551 **	3604 **
12	Heat Contribution of Coal	(Kcal/ kWh)	2,715	2,747	2,746	2,736	2,722	2,723	2,726	2,766	2,754	2,784	2,780	2,744	2,774	2,723	2,838	2,832	2,865	2,856
13	Cost Of Specific Coal Consumption -	(De /k/M/b)																		
10	Finally admitted by CERC (Ex-Bus)	(135./KW11)																		
14	Quantum of Oil Consumption	(KL)	2,443.00	2,061.00	1,405.00	1,544.00	2,396.00	1,549.00	2,498.00	1,647.00	1,889.00	1,513.00	1,247.00	1,011.00	1,427.00	1,036.00	1,622.00	1,142.00	1,273.00	1,410.00
15	Value of Oil	(Rs. lakh)													/	0.505	0.505	0.01-	0.000	
10	Gross calorific value of oil	(Kcal/lit)	9,600	9,600	9,600	9,600	9,441	9,289	9,335	9,370	9,310	9,354	9,499	9,562	9,594	9,599	9,589	9,217	9,220	9,310
17	Specific Oil Consumption	(mi/kvvn)	0.74	0.62	0.40	0.44	0.70	0.44	0.70	0.48	0.59	0.42	0.39	0.32	U.44	0.32	0.68	0.55	0.81	0.97
18	-Finally admitted by CERC	(Rs./kWh)																		
19	Heat Contribution of Oil	(Kcal/ kWh)	7.07	5 94	3.85	4 18	6.59	4.05	6.53	4 53	5.46	3.96	3 75	3.09	4 22	3.03	6.56	5.11	7.49	9.01
20	Station Heat Rate	(Kcal/ kWh)	2,758	2,753	2.749	2,740	2,728	2,727	2,732	2,770	2.760	2,788	2,783	2.747	2.778	2.726	2.844	2.837	2.873	2.867
21	Auxiliary Energy Consumption	(%)	12.00	11.88	11.34	11.11	11.76	11.33	11.52	11.82	12.02	11.89	11.46	11.62	11.47	11.46	12.86	13.44	14.02	14.51
22	Debt at the end of the year	(Rs. Crore)	285.73	251.34	208.54	164.52	173.26	146.86	151.69	107.11	136.28	117.32	116.54	87.01	70.86	42.09	4.75	-	-	-
23	Equity - Average	(Rs. Crore)	237.67	244.70	250.24	254.97	271.82	288.59	305.04	318.71	331.95	344.97	353.63	361.20	366.39	372.69	375.23	373.48	373.83	374.17
24	Working Capital – finally admitted by CERC	(Rs. Crore)	141.87	143.10	145.04	197.35	199.56	345.13	348.42	353.92	351.38	357.44	317.71	323.30	328.26	339.32	344.51	322.40	326.65	331.02
25	Capital cost - finally admitted by CERC	(Rs. Crore)	792.23	815.68	834.13	849.89	906.07	961.96	1,016.82	1,062.38	1,106.49	1,149.90	1,178.76	1,204.00	1,221.30	1,242.30	1,250.78	1,245.82	1,248.67	1,250.60
26	Capacity Charges/ Annual	(Pa Crora)	102 72	105 79	109.26	200 71	211.66	207.11	205.62	222.41	202.02	225.64	216.02	220.49	242 50	250.24	260.07	275 70	296.69	209.19
20	Fixed Cost (AFC)	(RS. CIOIE)	193.72	195.76	196.30	209.71	211.00	297.11	303.02	322.41	302.03	323.04	310.03	330.46	343.30	330.31	309.97	3/3./2	300.00	390.10
27	(a) Return on equity – post tax																			
21	Rea Tax post 2000																			
28	Absolute value	(Rs Crore)	33.27	34.26	35.03	35.70	38.06	67.76	70.80	73 13	76.16	81.00	69.35	71 17	72 20	73 44	73 94	70.15	70.21	70.28
29	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%
30	(b) interest on Loan	(12)																		
31	Absolute value	(Rs. Crore)	19.42	15.65	16.73	13.73	10.09	5.12	0.68	5.01	0.33	6.24	6.66	6.22	5.29	3.59	0.98	-	-	-
32	Rate – Weighted Average Rate	(%)	6.40%	5.83%	7.28%	7.36%	5.97%	3.22%	0.45%	3.87%	0.28%	5.15%	6.20%	7.04%	8.59%	10.1711	10.2029	8.25%	8.26%	8.26%
33	(c) Depreciation (finally allowed																			
	by CERC)																10.01			
34	Absolute value	(Rs. Crore)	28.08	28.91	29.56	30.12	32.11	49.50	52.41	54.83	29.78	33.32	35.79	38.15	39.94	42.41	43.54	43.94	44.47	44.93
35	AAD	(0()	0.5440/	0.5449/	0.5440/	0 5440/	0.5440/	E 4400/	E 45 40/	5 4040/									Sproad	over useful life
37	(d) Interest on working Capital	(70)	3.044 %	3.044 %	3.344 %	5.544 %	5.044 %	5.140%	5.154%	5.101%									opicad	over userur nie
38	Absolute value	(Rs. Crore)	14.97	15.11	15.26	20.70	20.89	42.28	42.68	43.36	43.12	43.86	43.97	44.72	45.37	46.88	47.59	38.85	39.36	39.89
39	Rate	(%)	10.250%	10.250%	10.250%	10.250%	10.250%	12.250%	12.250%	12.250%	12.250%	12.250%	13.500%	13.500%	13.500%	13.500%	13.500%	12.05%	12.05%	12.05%
	(e) Operation and maintenance cost																			
40	(finally admitted by	1																		
	CERC)																			
41	Absolute value	(Rs. Crore)	73.25	76.18	79.22	82.39	85.69	115.50	122.10	129.10	136.49	144.28	160.27	170.21	180.77	191.99	203.92	222.76	232.55	242.98
42	(f) Componentian Allowers	(%) (Re C`		NA	NA															
43 44	(a) Special Allowances	(Rs. Crore)						NA	NA NA	NA	NA NA	NA	NA NA	NA NA	NA	NA NA	NA	NA NA	NA	NA NA
	h) Supplementary Tariff - Emission	(INS. GIUIE)						NA	Ari	INA	NA	INA	NA	Ari	Ari	NA	AVI	INA	INA	NA
45	Control																			
46	Absolute value	(Rs. Crore)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
47	Rate	(%)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
48	 Ash Utilisation Expenses * 	(Rs. Crore)																89.16	4.74	154.94
49	AFC	(Rs./kWh)	0.94	0.95	0.96	0.77	0.78	1.03	1.06	1.12	1.05	1.13	1.12	1.17	1.22	1.24	1.28	1.28	1.28	1.28
50	Energy Charge	(Rs./kWh)	1.65	1.66	1.77	1.67	2.03	2.06	2.09	2.91	2.48	3.02	3.31	2.89	2.86	3.16	3.35	4.25	5.19	5.57
51	Supplemental Energy Charges -	(Rs./kWh)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	Emission Control	(De LMb)	0.50	2.64	0.70	0.44	0.04	3.00	0.45	4.00	0.50	A 45	4.40	4.00	4.00	4 40	4.00	E F0	C 47	C 07
53	Revenue realisation before tox	(Rs. KWII) (Rs. Crore)	2.59	2.61	2.73	2.44	2.81	3.09	3.15	4.03	3.53	4.15	4.43	4.06	4.08	4.40	4.63	5.53	0.47	0.85
54	Revenue realisation after tax	(Rs. Crore)																		
55	Profit/ loss *	(Rs. Crore)	52.13	210.16	151.95	100.19	95.42	93.66	203.91	147.82	116.27	49.42	40.26	77.39	201.49	317.58	73.12	251.22	455.23	456.45
56	DSM Generation	(MU)				25.31	20.05	18.85	15.13	20.13	7.79	2.27	(107.71)	(114.88)	(96.72)	(51.93)	(40.06)	(62.68)	(66.21)	(52.63)
57	DSM Rate	(Rs/kWh)																		
58	Revenue from DSM	(Rs. Crore)				(5.38)	(3.90)	(6.66)	(4.80)	(5.71)	(1.68)	(0.50)	22.90	23.05	17.60	8.74	11.42	18.14	17.11	17.44
59	Compensation received for operation	(Rs. Crore)														-	15.48	27.42	21.98	22.04
	DEIOW NAPAF	,)																		

60 Pa	art load Compensation received from eneficiriaes	(Rs. Crore)									-	15.48	27.42	21.98	22.04
61 An	mount received from SCED	(Rs Crore)									-	-	-	-	-
Ta ** ^ / * F	ariff related details for the period 2019- GCV of coal as received minus 85 kC Additional data related to Loading factor For entire Tanda Station	-20 to 2021-22 i Cal/Kg or (%) submittee	s as per Petition d	filed before CEF	RC										

						Annexure-XIX	
	Name of Utility:	NTPC Ltd.					
	Name of Generating Station:	Tanda Therma	I Power Statio	on Stage-II			
	Station Configuration:	2 X 660 = 1320	MW				
	Capacity (MW):	1320					
	Station COD:	01.07.2021					
S.N	Particulars	Unit	2017-18	2018-19	2019-20	2020-21	2021-22
1	Plant Availability Factor (PAF)	%			91.41	93.48	93.66
2	Plant Load Factors (PLF)	%			77.14	72.16	68.91
2a	Loading factor ^	%			83.29	80.17	83.22
3	Scheduled Energy	MU			1,699.44	4,010.91	6,670.63
4	Scheduled Generation	MU			1,699.44	4,010.91	6,670.63
5	Actual Generation (Gross)	MU			1,783.99	4,171.98	6,974.68
6	Actual Generation (ex-bus)	MU			1,677.85	3,918.07	6,565.35
7	Actual energy supplied to beneficiaries (Long Term, Medium Term and Short Term)	MU			1,445.98	3,761.83	6,013.38
8	Quantum of coal consumption	MT			11,03,199	27,47,624	42,93,370
9	Value of coal	Rs. Lakh					
10	Specific Coal Consumption	kg/kWh			0.62	0.66	0.62
11	Gross Calorific Value of Coal	(Kcal/ Kg)			3704 **	3445 **	3638 **
12	Heat Contribution of Coal	(Kcal/ kWh)			2,290.42	2,268.87	2,239.50
13	Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)					
14	Quantum of Oil Consumption	(KL)			5,969.00	3,293.00	8,541.00
15	Value of Oil	(Rs. lakh)					
16	Gross calorific value of oil	(kcal/lit)			9,149.00	9,200.16	9,310.00
17	Specific Oil Consumption	(ml/kWh)			3.35	0.79	1.22
18	Cost Of Specific Oil Consumption – Finally admitted by CERC	(Rs./kWh)					
19	Heat Contribution of Oil	(Kcal/ kWh)			30.61	7.26	11.40
20	Station Heat Rate	(Kcal/ kWh)			2,321	2,276	2,252
21	Auxiliary Energy Consumption	(%)			5.95	6.09	5.87
22	Debt at the end of the year	(Rs. Crore)			3,071.45	3,063.03	5,263.87
23	Equity - Average	(Rs. Crore)			1,309.50	1,393.52	2,492.57
24	Working Capital – finally admitted by CERC	(Rs. Crore)			430.89	447.33	934.83
25		(Rs. Crore)			4,364.99	4,645.07	8,308.56

26	Capacity Charges/ Annual Fixed Cost (AFC)	(Rs. Crore)	815.82	831.60	1,557.88
27	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009				
28	Absolute value	(Rs. Crore)	245.95	261.73	468.15
29	Rate	(%)	18.782%	18.782%	18.782%
30	(b) interest on Loan				
31	Absolute value	(Rs. Crore)	162.36	149.88	259.81
32	Rate – Weighted Average Rate	(%)	5.38%	4.89%	4.88%
33	(c) Depreciation (finally allowed by CERC)				
34	Absolute value	(Rs. Crore)	197.60	210.98	382.81
35	AAD				
36	Rate	(%)	4.58%	4.59%	4.61%
37	(d) Interest on working Capital				
38	Absolute value	(Rs. Crore)	51.92	50.33	98.16
39	Rate	(%)	12.05%	11.25%	10.50%
40	(e) Operation and maintenance cost (finally admitted by CERC)				
41	Absolute value	(Rs. Crore)	157.99	158.68	348.94
42	Rate	(%)	NA	NA	NA
43	(f) Compensation Allowances	(Rs. Crore)	NA	NA	NA
44	(g) Special Allowance	(Rs. Crore)	NA	NA	NA
45	h) Supplementary Tariff - Emission Control		NA	NA	NA
46	Absolute value	(Rs. Crore)	NA	NA	NA
47	Rate	(%)	NA	NA	NA
48	i) Ash Utilisation Expenses *	(Rs. Crore)	89.16	4.74	154.94
49	AFC	(Rs./ kWh)	1.76	1.80	1.68
50	Energy Charge	(Rs./kWh)	3.19	3.12	3.38
51	Supplemental Energy Charges - Emission Control	(Rs./kWh)	NA	NA	NA
52	Total tariff	(Rs. kWh)	4.95	4.91	5.06
53	Revenue realisation before tax	(Rs. Crore)			
54	Revenue realisation after tax	(Rs. Crore)			
55	Profit/ loss *	(Rs. Crore)	251.22	455.23	456.45
56	DSM Generation	(MU)	(21.59)	(92.83)	(105.28)

57	DSM Rate	(Rs/kWh)			
58	Revenue from DSM	(Rs. Crore)	(20.83)	14.38	0.20
59	Compensation received for operation below NAPAF	(Rs. Crore)	7.17	16.56	27.23
60	Part load Compensation received from beneficiriaes	(Rs. Crore)	7.17	16.56	27.23
61	Amount received from SCED	(Rs Crore)	5.44	3.76	4.13

Tariff related data is provided as per Amended Petition filed before CERC based on audited figure as on COD of Station

** GCV of coal as received minus 85 kCal/Kg

^ Additional data related to Loading factor (%) submitted

* For entire Tanda Station

DSM Revenue (-)Received / (+) Paid

Annexure-XXII

DETAILS OF EMISSION CONTROL SYSTEM

Generating company: NTPC Ltd Name of Generating station: Tanda Thermal Power Station Stage-2 Installed Capacity (MW) : 1320 MW

Type of Emission Control System: Wet Based FGD 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			1783.99	4171.98	6974.68
2	Auxiliary Consumption - emission control (Actual)	MU			NA	NA	NA
	Auxiliary Consumption - emission control (Actual)	%			NA	NA	NA
3	Auxiliary Consumption (Normative)	%			NA	NA	NA
4	Hours of Operation	Hrs			NA	NA	NA
5	O&M Expenses (Actual) with Breakup as per format	Rs. Crore			NA	NA	NA
6	Other maintenace spares consumed^	Rs. Crore			NA	NA	NA
7	Initial Spares consumed*	Rs. Crore			NA	NA	NA

S.No.	No. Particulars		2017-18		2018-19		2019-20		2020-21		2021-22	
			Investment	Approved								
			Approval		Approval		Approval		Approval		Approval	
1	Capital Cost of Emission Control System											
1.1	Hard Cost (incl GST)	Rs. Crore									-	597.43
1.1.1	Civil Works	Rs. Crore										Incl Above
1.1.2	Plant and Machinery and others	Rs. Crore										Incl Above
1.1.3	Initial Spares procured	Rs. Crore										Incl Above
1.2	IDC	Rs. Crore										37.69
1.3	IEDC	Rs. Crore										17.92
1.4	Others. Pls specify	Rs. Crore										
1.4	Completed Cost as per Investment Approval	Rs. Crore										653.04

Annexure- XXIII

DETAILS OF REAGENT USED FOR EMISSION CONTROL:

Generating company: NTPC Ltd Name of Generating station: Tanda Thermal Power Station Stage-2 Installed Capacity (MW) : 1320 MW

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
А.							
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
В.			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 Quanity 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			1,784	4,172	6,975
12	Fuel Type (coal/lignite)				Coal		
13	Sulphur content of Fuel	%	0.32	0.35	0.31	0.39	0.48
14	Gross SHR	kCal/kWh					
15	Design SO2 removal efficiency (Applicable for Wet FGD)	%	SO2 Eff	iciency guarant	y is taken cons	idering applica	ble New
			Environmental norm of that plant.				
16	SO2 removal norm (100/200/600 mg/Nm3)	mg/Nm3	100	100	100	100	100
17	Weigthed Average Gross GCV of Fuel Received	kCal/kg		А	s per Annexure	Ι	

NA = Not Applicable