o-form	a for furnishing Actual annual performance/opera	tional data for the coal/lignite	based therma	I generating stat	tions for the 5	year period fro	om 2017-18 to	2021-22	Anno
S.N	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodol Remarks
1	Name of Company			NTPC Limited					
2	Name of Station/ Pit head or Non- Pit head			Vindhyachal sup	oer thermal sta				
	Stage			Stage-1					
3	Installed Capacity and Configuration		MW	1260MW (210M	W X 6)				
3.1	Date of Commercial Operation - Unit Wise			Unit-1: 01-09-19 Unit-5: 01.04.19			:01.02.1990,U	nit-4 :01.09.1990,	
3.2	Effective COD		01.02.1992						
J. <u>Z</u>	Make of Turbine			Three Cylinder I	Reheat Conde	nsing Turbine (I	MZ)		
4	Rated Steam Parameters (Also state the type of S	eam turbine and Boiler)		Boiler : 670 TPF			/		
5	Type of BFP			Electrical Driver		,			
	Quantity		Per Unit	3 BFP	•				
6	Circulating water system	1 el Ollic	Closed Cycle						
7	Any other Site specific feature			Ologed Oyole					
	Design Unit heat rate		Kcal/KWH					2,307.60	
	Design Only near rate Design Boiler efficiency		%					87.58	
	Design Turbine cycle heat rate		Kcal/KWH					2,021.00	
3	Fuels:		NCal/NVIII					2,021.00	
.1	Primary Fuel :		1			Coal			
i.1	Annual Allocation under FSA		LMT	207.39	207.39	207.39	225.90	229.44	For the Station (4760 MW)
. !	Annual Consumption		LMT	65.46	65.61	66.25	66.87	67.68	1 of the Station (4700 MW)
	Annual Requirment at NAPAF		LMT	62.03	62.56	65.99	63.69	64.13	
.2	Sources of supply/ procurement along with control	acted quantity and grade of	LIVIT	Nigahi Silo (G10		For the Station (4760 MW)			
<u> </u>	LoA	LMT	207.39	207.39	207.39	225.90	229.44	For the Station (4760 MW)	
2.1	FSA MoU		LMT	0	0	0	0	0	For the Station (4760 MW)
2.2	Imported*		LMT	0	0	0	0	0	For the Station (4760 MW)
2.	Spot Market/e-auction*		LMT	0	0	0	0	0	For the Station (4760 MW)
.3	Transportation Distance of the station from the sources	of supply	KM			12	-		For the Station (4760 MW)
.4	Mode of Transport					MGR/ Rail			For the Station (4760 MW)
.5	Maximum Station capability to stock primary fuel (for da	ys consider availability as	Days & LMT			19.5 days/12.7	6		For the Station (4760 MW)
.6	Maximum stock maintained for primary fuel	,	MT			For the Station (4760 MW)			
	Date					For the Station (4760 MW)			
.7	Minimum Stock maintained for primary fuel		MT			For the Station (4760 MW)			
	Date					For the Station (4760 MW)			
.8	Average stock maintained for primary fuel		MT			For the Station (4760 MW)			
2	Secondary Fuel :					For the Station (4760 MW)			
.1	Annual Allocation/ Requirement (ALL 5 STAGES)		KL		17721.4	HFO,LDO 8 (full station re	auirement)		For the Station (4760 MW)
.2	Sources of supply		1			IOCL /HPCL/BP			For the Station (4760 MW)
2.3	Transportation Distance of the station from the sources	of supply	KM			2/1400 (Refiner	-		For the Station (4760 MW)
4	Mode of Transport	от оцррту	TXIVI		0 10/ 120	Rail	, locatione)		For the Station (4760 MW)
.5	Maximum Station capability to stock secondary fuels (II 5 STAGES)	KL		13902	(full station req	irement)		For the Station (4760 MW)
.6	Maximum Stock of secondary oil actually maintained (KL	9,355.18	9.040.98	9,958.55	9.423.20	8,369.39	For the Station (4760 MW)
.7	Minimum Stock of secondary oil actually maintained (KL	5,720.10	4,036.20	4,400.26	4.170.15	4,553.33	For the Station (4760 MW)
. <i>r</i> .8	Average Stock of secondary oil actually maintained (A		KL	7,076.03	5,659.12	7,373.24	6,794.84	5,794.70	For the Station (4760 MW)
o	Cost of Spares :	LL U STAGLOj	r\L	1,010.03	3,038.12	1,313.24	0,134.04	3,194.10	TOT THE STATION (4700 MW)
1	Cost of Spares :		(De Lakh)	11,419.42	12,008.00	8,528.26	12,433.16	21,345.27	For the Station (4760 MW)
2	Cost of spares capitalized in the books of accounts Cost of spares included in capital cost for the purpor	o of tariff	(Rs. Lakh)					21,345.27	FOI THE STATION (4700 MWV)
3		oc ur tallii	(Rs. Lakh)	0	0	0 N/A	0	U	
	Initial spares-list, quantity and cost		(Rs. Lakh)	11 610 00	10 570 05		22 445 25	10 265 47	For the Station (4700 MAA)
4	Maintenance spares - cost		(Rs. Lakh)	11,612.66	12,578.85	13,259.38	22,415.25	18,365.47	For the Station (4760 MW) For the Station (4760 MW)
.5	Other spares procured with high lead procurement time		(Rs. Lakh)	8,756.70	8,103.16	9,442.62	17,053.37	18,177.15	roi tile station (4760 MW)
0	Generation :			0 === 0.5	0.700.00	0.004.55	0.700.71	0.700.00	
).1	-Actual Gross Generation at generator terminals		MU	9,757.66	9,700.68	9,281.55	9,728.74	9,783.63	

10.2	-Actual Net Generation Ex-bus		MU	8,916.99	8,858.69	8,473.43	8,867.30	8.916.82	
10.3	-Scheduled Generation Ex-bus		MU	8,732.35	8,676.02	8,297.52	8,719.86	8,742.89	
11	Average Declared Capacity (DC)		MW	1,052.73	1,039.98	996.77	1,040.26	1,050.47	
	in a surger of the surger of t	DC Peak HD %	%	-	-	-	88.05	93.52	
		DC Off Peak HD %	%	-	-	-	87.87	93.62	
		DC Peak LD %	%	-	-	-	91.79	90.90	
		DC Off Peak LD %	%	_	_	_	91.66	90.96	
	Actual Declared Capacity	BO OH FORKED //	MÜ	9,221.91	9.110.22	8,755.60	9,112.69	9,202.07	
	Deemed Declared Capacity		MU	0,221.01	0,110.22	0,7 00.00	0,1.2.00	0,202.01	
		on excluding colony							
12	consumption	g,	MU	834.82	837.71	804.21	857.44	862.40	
13	Actual Energy supplied to Colony from the st	ation	MU	5.600	4.281	3.912	3.765	3.899	
	Actual energy supplied to construction activit		MU	0.242	-	- 0.012	0.241	0.515	
	Actual energy supplied to long term and med		MU	0.242	_		0.241	0.010	
	Actual energy supplied in short term	num term beneficiaries	MU						
	Energy supplied under bilateral arrangement	te	MU						
	Energy supplied through excahnges	.s 	MU	101.45	2.28	0.98	1.41	0.01	
		(AG-SG)	MU	184.64	182.68	175.90	147.44	173.93	
	Energy supplied under DSM Energy supplied SCED	(AG-5G)	MU	104.04	102.00	98.15	113.46	173.93	
14	Primary Fuel :	1	IVIU	+	+	90.15	113.40	10.51	
14.1	Consumption :			-	+	+	-		
14.1	Consumption .	From Linked Mines	MT	GE 4E 976	CE C1 1E0	66,24,918	66,87,193	67,67,722	
14.1.1	Domestic coal	From Non-Linkd Mines	MT MT	65,45,876 NA	65,61,150 NA	00,24,918 NA	NA	67,67,722 NA	
14.1.1	Domestic coal		MT	NA NA	NA NA	NA NA	NA NA	NA NA	
14.1.2	Imported coal	From Integerated Mines				NA NA			
	Spot market/e-auction coal		MT MT	NA NA	NA NA	NA NA	NA NA	NA NA	
14.1.3	Gross Calorific Value (GCV):		IVI I	INA	INA	INA	NA	INA	
14.2	Gloss Caloffic value (GCV).	(A - Dill - d) FM D - i	1.0-1/1	4.550.00	4.504.40	4 570 40	4,332.72	4,352.68	
14.2.1	Domestic Coal (for each type)	(As Billed) - EM Basis as per third party (As Received) - TM Basis as per third	kCal/kg kCal/kg	4,552.29 3,639.80	4,594.40 3,637.11	4,570.19 3,499.09	3,589.25	3,595.35	
			kCal/kg		3,037.11				
		(A - D:II - I) ADD D:-	1.0-1/1	N I A	N I A	N I A	N I A	NIA.	
14.2.2	Imported Coal	(As Billed) - ADB Basis	kCal/kg	NA	NA	NA	NA	NA NA	
14.2.2	Imported Coal	(As Received) - ADB Basis	kCal/kg	NA	NA	NA	NA	NA	
	Imported Coal Spot market/e- auction coal	(As Received) - ADB Basis (As Billed)	kCal/kg kCal/kg	NA NA	NA NA	NA NA	NA NA	NA NA	
	Spot market/e- auction coal	(As Received) - ADB Basis (As Billed) (As Received)	kCal/kg	NA	NA	NA	NA	NA	
	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed)	(As Received) - ADB Basis (As Billed) (As Received) (lue (Domestic+Imported+Spot/e-auction)	kCal/kg kCal/kg	NA NA	NA NA	NA NA	NA NA	NA NA	
14.2.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va	(As Received) - ADB Basis (As Billed) (As Received)	kCal/kg kCal/kg kCal/kg	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	
14.2.3 14.2.4	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed)	(As Received) - ADB Basis (As Billed) (As Received) (lue (Domestic+Imported+Spot/e-auction)	kCal/kg kCal/kg kCal/kg kCal/kg	NA NA NA 4,552.29	NA NA NA 4,594.40	NA NA NA 4,570.19	NA NA NA 4,332.72	NA NA NA 4,352.68	
14.2.3 14.2.4	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received)	(As Received) - ADB Basis (As Billed) (As Received) (lue (Domestic+Imported+Spot/e-auction)	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg	NA NA NA 4,552.29 3,639.80	NA NA NA 4,594.40 3,637.11	NA NA NA 4,570.19 3,499.09	NA NA NA 4,332.72 3,589.25	NA NA NA 4,352.68 3,595.35	
14.2.3 14.2.4 14.2.5	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%)	(As Received) - ADB Basis (As Billed) (As Received) (lue (Domestic+Imported+Spot/e-auction)	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg	NA NA NA 4,552.29 3,639.80	NA NA NA 4,594.40 3,637.11	NA NA NA 4,570.19 3,499.09	NA NA NA 4,332.72 3,589.25	NA NA NA 4,352.68 3,595.35	
14.2.3 14.2.4 14.2.5	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal : Billed Cost (including adjustments)	(As Received) - ADB Basis (As Billed) (As Received) Ilue (Domestic+Imported+Spot/e-auction) Ilue (Domestic+Imported+Spot/e-auction)	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg	NA NA NA 4,552.29 3,639.80	NA NA NA 4,594.40 3,637.11	NA NA NA 4,570.19 3,499.09	NA NA NA 4,332.72 3,589.25	NA NA NA 4,352.68 3,595.35	
14.2.3 14.2.4 14.2.5 14.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal :	(As Received) - ADB Basis (As Billed) (As Received) Ilue (Domestic+Imported+Spot/e-auction) Ilue (Domestic+Imported+Spot/e-auction) o delivery point	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg	NA NA NA 4,552.29 3,639.80 32.63	NA NA NA 4,594.40 3,637.11 33.34	NA NA NA 4,570.19 3,499.09 35.75	NA NA NA 4,332.72 3,589.25 34.90	NA NA NA 4,352.68 3,595.35 33.92	
14.2.3 14.2.4 14.2.5	Spot market/e- auction coal Weighted Average Gross Calorific va. (As Billed) Weighted Average Gross Calorific va. (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti	(As Received) - ADB Basis (As Billed) (As Received) Ilue (Domestic+Imported+Spot/e-auction) Ilue (Domestic+Imported+Spot/e-auction) o delivery point	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg	NA NA NA 4,552.29 3,639.80	NA NA NA 4,594.40 3,637.11	NA NA NA 4,570.19 3,499.09	NA NA NA 4,332.72 3,589.25	NA NA NA 4,352.68 3,595.35	
14.2.3 14.2.4 14.2.5 14.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt	(As Received) - ADB Basis (As Billed) (As Received) Ilue (Domestic+Imported+Spot/e-auction) Ilue (Domestic+Imported+Spot/e-auction) o delivery point	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg	NA NA NA 4,552.29 3,639.80 32.63	NA NA NA 4,594.40 3,637.11 33.34	NA NA NA 4,570.19 3,499.09 35.75	NA NA NA 4,332.72 3,589.25 34.90	NA NA NA 4,352.68 3,595.35 33.92 2,105	
14.2.3 14.2.4 14.2.5 14.3	Spot market/e- auction coal Weighted Average Gross Calorific va. (As Billed) Weighted Average Gross Calorific va. (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti	(As Received) - ADB Basis (As Billed) (As Received) (As Basis (As Billed) (As Basis (As Billed) (As Basis (As Billed) (As Received) - ADB Basis (As Basis (As Billed) (As Received) - ADB Basis (As Billed) (As Billed) (As Received) - ADB Basis (As Billed) (As Beatled) (As Received) - ADB Basis (As Billed) (As Received) - ADB Basis (As Billed) (As Received) - ADB Basis (As Billed) (As Beatled) (As	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT) (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117	NA NA NA 4,332.72 3,589.25 34.90 2,163	NA NA NA 4,352.68 3,595.35 33.92 2,105	
14.2.3 14.2.4 14.2.5 14.3	Spot market/e- auction coal Weighted Average Gross Calorific va. (As Billed) Weighted Average Gross Calorific va. (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti	(As Received) - ADB Basis (As Billed) (As Received) Ilue (Domestic+Imported+Spot/e-auction) Ilue (Domestic+Imported+Spot/e-auction) o delivery point c coal 1. Cost of coal, 2. Transportation	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT) (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57	
14.2.3 14.2.4 14.2.5 14.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up	(As Received) - ADB Basis (As Billed) (As Received) (As Basis (As Billed) (As Basis (As Billed) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Basis (As Billed) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (As Re	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT) (Rs/MT) (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,105 2,018 57 30	
14.2.3 14.2.4 14.2.5 14.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Importer	(As Received) - ADB Basis (As Billed) (As Received) (As Basis (As Billed) (As Basis (As Billed) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Basis (As Billed) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (As Re	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT) (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57	
14.2.3 14.2.4 14.2.5 14.3.1	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Imported Components of landed cost and break up	(As Received) - ADB Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (A	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41 17 NA	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12 NA	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23 NA	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27 NA	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57 30 NA	
14.2.3 14.2.4 14.2.5 14.3.1	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Imported Components of landed cost and break up Weighted Average Landed Price of Spot market	(As Received) - ADB Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (As Basis (As Billed) (As Received) (A	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT) (Rs/MT) (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,105 2,018 57 30	
14.2.3 14.2.4 14.2.5 14.3.1 14.3.1 14.3.2	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Importer Components of landed cost and break up Weighted Average Landed Price of Spot ms Components of landed cost and break up	(As Received) - ADB Basis (As Billed) (As Received) (As Billed) (As Received) (As Rece	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41 17 NA	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12 NA NA	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23 NA	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27 NA	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57 30 NA	
14.2.3 14.2.4 14.2.5 14.3.1	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Imported Components of landed cost and break up Weighted Average Landed Price of Spot market	(As Received) - ADB Basis (As Billed) (As Received) (As Billed) (As Received) (As Rece	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41 17 NA	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12 NA	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23 NA	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27 NA	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57 30 NA	
14.2.3 14.2.4 14.2.5 14.3.1 14.3.1 14.3.2 14.3.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Imported Components of landed cost and break up Weighted Average Landed Price of Spot ma Components of landed cost and break up Weighted Average Landed Price of Spot ma Components of landed cost and break up Weighted Average Landed Price of all the Co	(As Received) - ADB Basis (As Billed) (As Received) (As Billed) (As Received) (As Rece	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT) (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41 17 NA	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12 NA NA	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23 NA	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27 NA	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57 30 NA	
14.2.3 14.2.4 14.2.5 14.3.1 14.3.1 14.3.2 14.3.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Importer Components of landed cost and break up Weighted Average Landed Price of Spot ms Components of landed cost and break up	(As Received) - ADB Basis (As Billed) (As Received) (As Billed) (As Received) (As Rece	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41 17 NA	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12 NA NA	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23 NA	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27 NA	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57 30 NA	
14.2.3 14.2.4 14.2.5 14.3.1 14.3.1 14.3.2 14.3.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Imported Components of landed cost and break up Weighted Average Landed Price of Spot ma Components of landed cost and break up Weighted Average Landed Price of Spot ma Components of landed cost and break up Weighted Average Landed Price of all the Co	(As Received) - ADB Basis (As Billed) (As Received) (As Billed) (As Received) (As Rece	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41 17 NA	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12 NA NA	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23 NA	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27 NA	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57 30 NA	
14.2.3 14.2.4 14.2.5 14.3.1 14.3.1 14.3.2 14.3.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Imported Components of landed cost and break up Weighted Average Landed Price of Spot ma Components of landed cost and break up Weighted Average Landed Price of Spot ma Components of landed cost and break up Weighted Average Landed Price of all the Co	(As Received) - ADB Basis (As Billed) (As Received) (As Billed) (As Received) (As Rece	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41 17 NA	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12 NA NA	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23 NA	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27 NA	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57 30 NA	
14.2.3 14.2.4 14.2.5 14.3.1 14.3.1 14.3.2 14.3.3	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Imported Components of landed cost and break up Weighted Average Landed Price of Spot ma Components of landed cost and break up Weighted Average Landed Price of Spot ma Components of landed cost and break up Weighted Average Landed Price of all the Co	(As Received) - ADB Basis (As Billed) (As Received) (As Billed) (As Received) (As Rece	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41 17 NA	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12 NA NA	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23 NA	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27 NA	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57 30 NA	
14.2.3 14.2.4 14.2.5 14.3 14.3.1 14.3.2 14.3.3 14.3.4 14.4	Spot market/e- auction coal Weighted Average Gross Calorific va (As Billed) Weighted Average Gross Calorific va (As Received) Ash content in coal (%) Price of coal: Billed Cost (including adjustments) Amount Charged by transporting agency upt Weighted Average Landed price of Domesti Components of landed cost and break up Weighted Average Landed Price of Imported Components of landed cost and break up Weighted Average Landed Price of Spot market Components of landed cost and break up Weighted Average Landed Price of Spot market Components of landed cost and break up Weighted Average Landed Price of all the Cost Blending:	(As Received) - ADB Basis (As Billed) (As Received) (As Billed) (As Received) (As Rece	kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg kCal/kg (Rs/MT)	NA NA NA 4,552.29 3,639.80 32.63 2,089 2,031 41 17 NA NA 2,089	NA NA NA 4,594.40 3,637.11 33.34 2,126 2,072 42 12 NA NA	NA NA NA 4,570.19 3,499.09 35.75 2,211 2,117 70 23 NA NA	NA NA NA 4,332.72 3,589.25 34.90 2,163 2,068 68 27 NA NA 2,163	NA NA NA 4,352.68 3,595.35 33.92 2,105 2,018 57 30 NA NA	

	Coal stockyard capacity		LMT			12.76 LMT			For the Station (4760 MW)
14.5	Actual daily Average Coal stock maintained		LMT	11.76	17.42	8.44	10.50	7.76	For the Station (4760 MW)
14.5	Actual daily Average Coal Stock maintained		Days	17.55	26.00	12.60	15.67	11.58	For the Station (4760 MW)
14.5	Actual Transit & Handling Losses for coal	/Lignite							For the Station (4760 MW)
	Pit- Head Station								For the Station (4760 MW)
14.5.1.1	Transit loss from linked mines		%	0.20	0.20	0.23	0.23	0.29	For the Station (4760 MW)
14.5.1.2	Transit loss from non-linked mines including	e-auction coal mines.	%	-	-	-	-	-	For the Station (4760 MW)
14.5.1.3	Transit loss of imported coal		%	-	-	-	-	-	For the Station (4760 MW)
14.5.2	Non-Pit Head station			NA	NA	NA	NA	NA	For the Station (4760 MW)
	Transit loss from linked mines		%	NA	NA	NA	NA	NA	
	Transit loss from non-linked mines including	e-auction coal mines.	%	NA	NA	NA	NA	NA	
14.5.2.3	Transit loss of imported coal		%	NA	NA	NA	NA	NA	For the Station (4760 MW)
15	Secondary Fuel Oil :								
15.1	Consumption	HFO	KL	1,791	2,020	2,775	2,659	2,878	
	'	LDO	KL	-				-	
15.2	Weighted Average Gross Calorific	HFO	(kCal / Lit.)	9,828	9,834	9,835	9,846	9,871	
.0.2	value (As received)	LDO	(kCal / Lit.)	-	-	-	-	-	
15.3	Weighted Average Price	HFO	(Rs / KL)	29,981	40,203	39,855	43,342	54,468	
	5	LDO	(Rs / KL)	47,802	54,337	50,674	53,512	73,802	
15.4	Actual Average stock maintained	HFO (ALL 5 STAGES)	KL	4,845.06	3,462.40	4,840.21	4,531.07	3,041.10	For the Station (4760 MW)
	g .	LDO (ALL 5 STAGES)	KL	2,230.97	2,196.71	2,533.03	2,263.77	2,753.61	For the Station (4760 MW)
16	Weighted average duration of outages	(unit-wise details):	—	,,					
16.1	Planned Outages (for 6 units)		(Days)	18.56	12.46	20.27	16.39	17.16	
16.2	Forced Outages (for 6 units)	1	(Days)	1.66	7.57	6.04	8.18	6.27	
	Within control of generator		(Days)	0.21	0.09	0.05	0.03	0.07	
40.0	beyond control of generator		(Days)	1.46	7.47	5.99	8.15	6.20	
	Number of tripping		Nos.	13	18	17	18	10	
16.4	Number of start-ups:		Nos.	22	33	33	32	29	
16.4.1	Cold Start-up Warm Start-up		Nos.	6 8	9	6 16	9	12 13	
	Hot start-up		Nos. Nos.	8	10	11	9	4	
17	NOx , SOx ,and other particulate matter emi	ssion in : at conditions specified by	1105.	0	10				
17.1	Design value of emission control equipment		mg/NM3			SOx: 600; NOx: 6	800		Norms as per MOEF&CC
17.1	FGD installation date	(specify conditions)	Hig/INIVIS			lation work is un			Norths as per MOLI &CC
	NOX Control system installation date		+	NA	NA NA	NA NA	NA NA	NA	
	NOX Control system installation date	SPM		INA	INA	INA	INA	INA	
	A 4 - 1 - 1 - 1 - (0) - 1)		mg/Nm³						
	Actual emission (Stage-I)	NOX	mg/Nm ³						
17.2		SOX	mg/Nm ³		i	As per Annexure	Δ		
		SPM	mg/Nm ³		,	to por rumoxaro	, , ,		
	Actual emission (Stage-II)	NOX	ma/Nm ³						
		SOX	mg/Nm ³						
	Ash dyke capacity as on 31st March		LCM						For the Station (4760 MW)
	Ash pond capacity as on 31st March		Days						For the Station (4760 MW)
	Fund avalable in Ash Fund Account as on								` '
					i	As per Annexure	∍- B		For the Station (4760 MW)
	31st March				,				
1			+		,				For the Station (4760 MW)
19	Amount utilized from Ash Fund Account	1	Qty Produced	24.60	32.12	31.24	37.68	53.05	For the Station (4760 MW) For the Station (4760 MW)
19		1	Qty Produced LMT	24.60 79.58		·	37.68 87.14	53.05 82.38	
19	Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced	1		79.58	32.12	31.24			For the Station (4760 MW)
19	Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produced Ash available as on 31st March *	1	LMT LMT	79.58 3.99	32.12 81.86 16.53	31.24 88.57 19.93	87.14 12.71	82.38 11.18	For the Station (4760 MW) For the Station (4760 MW) For the Station (4760 MW)
19	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	i	LMT	79.58	32.12 81.86	31.24 88.57	87.14	82.38	For the Station (4760 MW) For the Station (4760 MW)
19	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	i	LMT LMT	79.58 3.99	32.12 81.86 16.53	31.24 88.57 19.93	87.14 12.71	82.38 11.18	For the Station (4760 MW) For the Station (4760 MW) For the Station (4760 MW)
19	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	3	LMT LMT LMT	79.58 3.99 0.15	32.12 81.86 16.53 0.24	31.24 88.57 19.93 0.29	87.14 12.71 0.40	82.38 11.18 0.36	For the Station (4760 MW)
19	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		LMT LMT LMT	79.58 3.99 0.15	32.12 81.86 16.53 0.24	31.24 88.57 19.93 0.29	87.14 12.71 0.40 1.21	82.38 11.18 0.36 5.08	For the Station (4760 MW)
	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 **		LMT LMT LMT LMT Km	79.58 3.99 0.15	32.12 81.86 16.53 0.24 - - 4.54	31.24 88.57 19.93 0.29	87.14 12.71 0.40 1.21 150.00	82.38 11.18 0.36 5.08 150.00	For the Station (4760 MW)
19.1	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		LMT LMT LMT LMT Km (%)	79.58 3.99 0.15 - - 9.05	32.12 81.86 16.53 0.24 - - 4.54	31.24 88.57 19.93 0.29	87.14 12.71 0.40 1.21 150.00 4.30 1.39 15.38	82.38 11.18 0.36 5.08 150.00 5.28	For the Station (4760 MW)
19.1 19.2 19.3 19.4	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		LMT LMT LMT LMT Km (%) (%)	79.58 3.99 0.15 - - 9.05	32.12 81.86 16.53 0.24 - - 4.54	31.24 88.57 19.93 0.29	87.14 12.71 0.40 1.21 150.00 4.30 1.39	82.38 11.18 0.36 5.08 150.00 5.28 4.39	For the Station (4760 MW)

20	Cost of spares actually consumed	(Rs. Lakh)	11,419.42	12,008.00	8,528.26	12,433.16	21,345.27	For the Station (4760 MW)
21	Average stock of spares	(Rs. Lakhs)	27,679.50	30,046.02	36,748.43	39,369.44	40,122.89	For the Station (4760 MW)
22	Number of employees deployed in O&M	Nos.	1,309	1,151	1,069	1,029	963	For the Station (4760 MW)
22.1	- Executives	Nos.	712	625	606	604	568	For the Station (4760 MW)
22.2	- Non Executives	Nos.	597	526	463	425	395	For the Station (4760 MW)
22.3	- Corporate office	Nos.	2,568	2,241	2,016	1,815	1,728	For the Station (4760 MW)
23	Man-MW ratio	Man/MW	0.28	0.24	0.22	0.22	0.20	For the Station (4760 MW)
	Total billed amount							
	Total received amount within due date							
	Total amount received beyond due date							
	Total amount pending			A				
	Total amount under dispute							
	Total rebate given							
	Total LPSC recovered							
24	Generation Switchyard Details		each), Satna-1 km		ach)	For the Station (4760 MW)		
	No. of Bays voltagewise			stage-1 & 2 = : 2 kv bays : stag		For the Station (4760 MW)		
	ICT - nos and rating		Stage-	1 & 2 =2 ICTs,	stage-3 =1 ICT	(All ICTs 400 kv /	(132 kv)	For the Station (4760 MW)
	Dedicated transmission line - voltage and length				Not Applicable	9		For the Station (4760 MW)

^{*} Total ash generated during the Financial Year given ** Weighted average distance of Ash Transported given

	a for furnishing Actual annual performance/operational data for the			morating ot	Basis of Information/ Methodo			
S.N	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22	Remarks
1	Name of Company		NTPC Limited	ı	ı			Kemarks
2	Name of Station/ Pit head or Non- Pit head		Vindhyachal supe	er thermal stat				
	Stage		stage-2					
3	Installed Capacity and Configuration	MW	1000MW (500MV	V X 2)				
.1	Date of Commercial Operation - Unit Wise		Unit-7:01.07.200	0, Únit-8:0	1.10.2000			
.2	Effective COD		01.10.2001					
	Make of Turbine		Three Cylinder R			(WU)		
	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)		Boiler: 1502 TPH		C/ 176 KSC			
	Type of BFP		Steam Driven Bl					
	Quantity	Per Unit	Two Steam Drive	en (2 x 50%) ·	+ 1 Motor Driver	n (50%) per ur	nit	
	Circulating water system		Closed Cycle					
	Any other Site specific feature		Ball and tube mill					
	Unit heat rate design	Kcal/KWH					2,220.50	
	Boiler efficiency design	%					87.71	
	Turbine cycle heat rate design	Kcal/KWH					1,947.60	
	Fuels :		01					
	Primary Fuel: Annual Allocation under FSA	1.547	Coal	007.00	007.00	005.00	000 11	F 4b - O4-4i (4700 \$4)4/\
1		LMT	207.39	207.39	207.39	225.90	229.44	For the Station (4760 MW)
	Annual Consumption	LMT	50.85	50.72	48.10	51.43	48.48	
	Annual Requirment at NAPAF	LMT	48.13	48.32	50.89	49.56	49.37 o(G10)/Amlori WW	
2	Sources of supply/ procurement along with contracted quantity and grade of coal		,		For the Station (4760 MW)			
.1	FSA LoA	LMT	207.39	207.39	207.39	225.90	229.44	For the Station (4760 MW)
	MOU	LMT	0	0	0	0	0	For the Station (4760 MW)
	Imported*	LMT	0	0	0	0	0	For the Station (4760 MW)
	Spot Market/e-auction*	LMT	0	0	0	0	0	For the Station (4760 MW)
	Transportation Distance of the station from the sources of supply	KM			12			For the Station (4760 MW)
	Mode of Transport				MGR/ Rail			For the Station (4760 MW)
5	Maximum Station capability to stock primary fuel (for days consider availability as	Days & LMT			19.5 days/12.7	<u>′6</u>		For the Station (4760 MW)
3	Maximum stock maintained for primary fuel	MT			19.98			For the Station (4760 MW)
_	Date				14-02-2019			For the Station (4760 MW)
7	Minimum Stock maintained for primary fuel	MT			2.46			For the Station (4760 MW)
3	Date Average stock maintained for primary fuel	MT			08-10-2021 11.18			For the Station (4760 MW)
	Average stock maintained for primary fuel Secondary Fuel :	MI			HFO.LDO			For the Station (4760 MW)
	Annual Allocation/ Requirement (ALL 5 STAGES)	KL		17701 /	8 (full station re	auiromont)		For the Station (4760 MW)
•	Sources of supply	r\L			OCL /HPCL/BP			For the Station (4760 MW) For the Station (4760 MW)
	Transportation Distance of the station from the sources of supply	KM			2/1400 (Refiner			For the Station (4760 MW)
۲.	Mode of Transport	IXIVI	+	040/120/	Rail	, 1000110110		For the Station (4760 MW)
			Rail 13902 (full station requirement)			uirement)		For the Station (4760 MW)
1		KI KI		13902	(Tuli Station red			
4 5	Maximum Station capability to stock secondary fuels (ALL 5 STAGES)	KL KI	9 355 18				8 369 39	For the Station (4760 MW)
4 5 3		KL	9,355.18 5,720.10	9,040.98	9,958.55	9,423.20	8,369.39 4,553.33	For the Station (4760 MW) For the Station (4760 MW)
4 5 3 7	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES) Minimum Stock of secondary oil actually maintained (ALL 5 STAGES)	KL KL	5,720.10	9,040.98 4,036.20	9,958.55 4,400.26	9,423.20 4,170.15	4,553.33	For the Station (4760 MW)
4 5 6 7	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES)	KL		9,040.98	9,958.55	9,423.20		
1 5 7 8	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES) Minimum Stock of secondary oil actually maintained (ALL 5 STAGES) Average Stock of secondary oil actually maintained (ALL 5 STAGES)	KL KL	5,720.10	9,040.98 4,036.20	9,958.55 4,400.26	9,423.20 4,170.15	4,553.33 5,794.70	For the Station (4760 MW) For the Station (4760 MW)
4 5 6 7 8	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES) Minimum Stock of secondary oil actually maintained (ALL 5 STAGES) Average Stock of secondary oil actually maintained (ALL 5 STAGES) Cost of Spares:	KL KL KL	5,720.10 7,076.03	9,040.98 4,036.20 5,659.12	9,958.55 4,400.26 7,373.24 8,528.26	9,423.20 4,170.15 6,794.84	4,553.33 5,794.70 21,345.27	For the Station (4760 MW)
4 5 6 7 8	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES) Minimum Stock of secondary oil actually maintained (ALL 5 STAGES) Average Stock of secondary oil actually maintained (ALL 5 STAGES) Cost of Spares: Cost of Spares capitalized in the books of accounts	KL KL KL (Rs. Lakh)	5,720.10 7,076.03 11,419.42	9,040.98 4,036.20 5,659.12 12,008.00	9,958.55 4,400.26 7,373.24 8,528.26	9,423.20 4,170.15 6,794.84 12,433.16	4,553.33 5,794.70 21,345.27	For the Station (4760 MW) For the Station (4760 MW)
4 5 6 7 8	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES) Minimum Stock of secondary oil actually maintained (ALL 5 STAGES) Average Stock of secondary oil actually maintained (ALL 5 STAGES) Cost of Spares: Cost of Spares capitalized in the books of accounts Cost of spares included in capital cost for the purpose of tariff	KL KL KL (Rs. Lakh) (Rs. Lakh)	5,720.10 7,076.03 11,419.42	9,040.98 4,036.20 5,659.12 12,008.00	9,958.55 4,400.26 7,373.24 8,528.26	9,423.20 4,170.15 6,794.84 12,433.16	4,553.33 5,794.70 21,345.27	For the Station (4760 MW) For the Station (4760 MW)
4 5 6 7 8	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES) Minimum Stock of secondary oil actually maintained (ALL 5 STAGES) Average Stock of secondary oil actually maintained (ALL 5 STAGES) Cost of Spares: Cost of Spares capitalized in the books of accounts Cost of spares included in capital cost for the purpose of tariff Initial spares-list, quantity and cost	KL KL KL (Rs. Lakh) (Rs. Lakh) (Rs. Lakh)	5,720.10 7,076.03 11,419.42 0	9,040.98 4,036.20 5,659.12 12,008.00	9,958.55 4,400.26 7,373.24 8,528.26 0 N/A	9,423.20 4,170.15 6,794.84 12,433.16	4,553.33 5,794.70 21,345.27 0	For the Station (4760 MW) For the Station (4760 MW) For the Station (4760 MW)
4 5 6 7 8	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES) Minimum Stock of secondary oil actually maintained (ALL 5 STAGES) Average Stock of secondary oil actually maintained (ALL 5 STAGES) Cost of Spares: Cost of Spares capitalized in the books of accounts Cost of spares included in capital cost for the purpose of tariff Initial spares-list, quantity and cost Maintenance spares - cost	KL KL KL (Rs. Lakh) (Rs. Lakh) (Rs. Lakh) (Rs. Lakh)	5,720.10 7,076.03 11,419.42 0	9,040.98 4,036.20 5,659.12 12,008.00 0	9,958.55 4,400.26 7,373.24 8,528.26 0 N/A 13,259.38	9,423.20 4,170.15 6,794.84 12,433.16 0 22,415.25	4,553.33 5,794.70 21,345.27 0 18,365.47	For the Station (4760 MW)
4 5 6 7 8	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES) Minimum Stock of secondary oil actually maintained (ALL 5 STAGES) Average Stock of secondary oil actually maintained (ALL 5 STAGES) Cost of Spares: Cost of Spares capitalized in the books of accounts Cost of spares included in capital cost for the purpose of tariff Initial spares-list, quantity and cost Maintenance spares - cost Other spares procured with high lead procurement time	KL KL KL (Rs. Lakh) (Rs. Lakh) (Rs. Lakh) (Rs. Lakh)	5,720.10 7,076.03 11,419.42 0	9,040.98 4,036.20 5,659.12 12,008.00 0	9,958.55 4,400.26 7,373.24 8,528.26 0 N/A 13,259.38	9,423.20 4,170.15 6,794.84 12,433.16 0 22,415.25	4,553.33 5,794.70 21,345.27 0 18,365.47	For the Station (4760 MW)
8.2.5 8.2.6 8.2.7 8.2.8 9. 9.1 9.2 9.3 9.4 9.5	Maximum Station capability to stock secondary fuels (ALL 5 STAGES) Maximum Stock of secondary oil actually maintained (ALL 5 STAGES) Minimum Stock of secondary oil actually maintained (ALL 5 STAGES) Average Stock of secondary oil actually maintained (ALL 5 STAGES) Cost of Spares: Cost of Spares capitalized in the books of accounts Cost of spares included in capital cost for the purpose of tariff Initial spares-list, quantity and cost Maintenance spares - cost Other spares procured with high lead procurement time Generation:	KL KL KL (Rs. Lakh) (Rs. Lakh) (Rs. Lakh) (Rs. Lakh)	5,720.10 7,076.03 11,419.42 0 11,612.66 8,756.70	9,040.98 4,036.20 5,659.12 12,008.00 0 12,578.85 8,103.16	9,958.55 4,400.26 7,373.24 8,528.26 0 N/A 13,259.38 9,442.62	9,423.20 4,170.15 6,794.84 12,433.16 0 22,415.25 17,053.37	4,553.33 5,794.70 21,345.27 0 18,365.47 18,177.15	For the Station (For the Station (For the Station (For the Station (

11	Average Declared Capacity (DC)		MW	865.77	856.95	788.40	870.88	814.32	
	Average Declared Supacity (DS)	DC Peak HD %	%	-	-	700.40	99.90	89.56	
		DC Off Peak HD %	%	-		-	99.74	89.66	
-		DC Peak LD %	%	-	-			87.06	
			%			-	91.71		
	Astro-I Declared Conseils	DC Off Peak LD %		- 7.504.44	- 7.500.00		91.63	86.90	
	Actual Declared Capacity		MU	7,584.14	7,506.89	6,925.33	7,628.92	7,133.48	
	Deemed Declared Capacity		MU						
12	consumption	umption excluding colony	MU	443.72	452.72	445.36	480.03	453.32	
13	Actual Energy supplied to Colony from		MU	4.705	3.609	3.058	3.077	3.007	
	Actual energy supplied to construction act		MU	0.203	-		0.197	0.397	
	Actual energy supplied to long term and m	nedium term beneficiaries	MU	7,362.64	7,343.12	6,459.40	7,158.31	6,815.43	
	Actual energy supplied in short term		MU						
	Energy supplied under bilateral arrangeme	ents	MU						
	Energy supplied through excahnges		MU	1.71	4.21	0.51	0.55	-	
	Energy supplied under DSM	(AG-SG)	MU	(10.03)	(33.17)	(75.54)	(38.21)	(24.55)	
	Energy supplied SCED		MU	(/		13.82	11.64	(15.77)	
14	Primary Fuel :	1						(12)	-
14.1	Consumption :						1		-
T	Pri	From Linked Mines	MT	50,84,592	50,72,485	48,10,429	51,42,697	48,48,093	-
14.1.1	Domestic coal	From Non-Linkd Mines	MT	NA	NA	NA	NA	NA	
I		From Integerated Mines	MT	NA NA	NA NA	NA NA	NA NA	NA NA	
14.1.2	Imported coal	ir rem integerated mines	MT	NA.	NA	NA	NA NA	NA	
14.1.3	Spot market/e-auction coal		MT	1473	14/1	14/3	14/3	14/1	
14.1.3	Gross Calorific Value (GCV) :		IVII						
17.2	Cross Calorino Value (GGV):	(As Billed) - EM Basis as per third party	kCal/kg	4,552.29	4,594.40	4,570.19	4,332.72	4,352.68	
14.2.1	Domestic Coal (for each type)	(As Received) - TM Basis as per third		3,637.37	3,645.07	3,512.78	3,591.16	3,612.72	
		(As Billed) - ADB Basis	kCal/kg kCal/kg	3,037.37 NA	3,645.07 NA	3,512.76 NA	3,591.16 NA	3,612.72 NA	
14.2.2	Imported Coal								
		(As Received) - ADB Basis	kCal/kg	NA NA	NA	NA	NA	NA	
14.2.3	Spot market/e- auction coal	(As Billed)	kCal/kg	NA NA	NA	NA	NA	NA	
4404	Mainhad Avenue Const Calcuific	(As Received)	kCal/kg	NA 4 550 00	NA 4 504 40	NA	NA	NA	
		value (Domestic+Imported+Spot/e-	kCal/kg	4,552.29	4,594.40	4,570.19	4,332.72	4,352.68	
14.2.5		value (Domestic+Imported+Spot/e-	kCal/kg	3,637.37	3,645.07	3,512.78	3,591.16	3,612.72	
44.0	Ash content in coal (%)		%	32.63	33.34	35.75	34.90	33.92	
14.3	Price of coal :								
	Billed Cost (including adjustments)								
	Amount Charged by transporting agency u								
14.3.1	Weighted Average Landed price of Dome	estic coal	(Rs/MT)	2,089	2,126	2,211	2,163	2,105	
	Components of landed cost and break up		<u> </u>						
		1. Cost of coal,	(Rs/MT)	2,031	2,072	2,117	2,068	2,018	
		2. Transportation	(Rs/MT)	41	42	70	68	57	
		3. Other charges	(Rs/MT)	17	12	23	27	30	
14.3.2	Weighted Average Landed Price of Impor	ted coal	(Rs/MT)	NA	NA	NA	NA	NA	
	Components of landed cost and break up								
14.3.3	Weighted Average Landed Price of Spot	market / e-auction coal	(Rs/MT)	NA	NA	NA	NA	NA	
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the	Coals	(Rs/MT)	2,089	2,126	2,211	2,163	2,105	
			% and MT	T	Т		\neg	\neg	
14.4	Blending:		(of the total						
14.4	Dictioning .		coal						
<u> </u>			consumed)						
	Blanding ratio of imported and with damas	etic coal	Equivalent to	0		0	0		
	Blending ratio of imported coal with domes		domestic coal	U	0	U	٥	٥	
14.4.2	Proportion of e-auction coal in the blending	g	% & MT	0	0	0	0	0	
	Coal stockyard capacity	-	LMT	-	-	12.76	- •		For the Station (4760 MW)
14.5	Actual daily Average Cool stock as into in-		LMT	11.76	17.42	8.44	10.50	7.76	For the Station (4760 MW)
14.5	Actual daily Average Coal stock maintaine	eu .	Days	17.55	26.00	12.60	15.67	11.58	For the Station (4760 MW)
	•					1			

14.5	Actual Transit & Handling Losses for coal	Lianite							For the Station (4760 MW)
14.5.1	Pit- Head Station	3						For the Station (4760 MW)	
	Transit loss from linked mines		%	0.20 0.20 0.23 0.23 0.29				For the Station (4760 MW)	
14.5.1.2	Transit loss from non-linked mines includi	ng e-auction coal mines.	%					-	For the Station (4760 MW)
	Transit loss of imported coal		%					For the Station (4760 MW)	
14.5.2	Non-Pit Head station			NA NA NA NA					For the Station (4760 MW)
	Transit loss from linked mines		%	NA NA NA NA					For the Station (4760 MW)
	Transit loss from non-linked mines includi	ng e-auction coal mines.	%	NA	NA	For the Station (4760 MW)			
	Transit loss of imported coal	3	%	NA	NA	NA NA	NA NA	NA NA	For the Station (4760 MW)
15	Secondary Fuel Oil :								()
	,	HFO	KL	1,594	1,668	2,463	1,376	2,104	
15.1	Consumption	LDO	KL	-	30.00	27.00	301.00	379.00	
45.0	Weighted Average Gross	HFO	(kCal / Lit.)	9.851	9.818	9,839	9,813	9,864	
15.2	Calorific value (As received)	LDO	(kCal / Lit.)	-	9.484.00	9,477.96	9,558.50	8.941.88	
45.0		HFO	(Rs / KL)	29,981	40,203	39,855	43,342	54,468	
15.3	Weighted Average Price	LDO	(Rs / KL)	47,802	54,337	50,674	53,512	73,802	
45.4		HFO (ALL 5 STAGES)	KL	4,845.06	3,462.40	4.840.21	4.531.07	3.041.10	For the Station (4760 MW)
15.4	Actual Average stock maintained	LDO (ALL 5 STAGES)	KL	2,230.97	2,196.71	2,533.03	2,263.77	2,753.61	For the Station (4760 MW)
16	Weighted average duration of outages			2,200.01	2,100111	2,000.00	2,200	2,. 00.01	
16.1	Planned Outages (for 2 units)	,	(Days)	13.91	19.09	36.88	25.50	40.89	
16.2	Forced Outages (for 2 units)		(Days)	10.40	11.58	18.94	7.17	7.09	
101	Within control of generator		(Days)	0.11	0.17	0.68	-	0.23	
	beyond control of generator		(Days)	10.29	11.41	18.26	7.17	6.85	
16.3	Number of tripping	!	Nos.	11	10	12	2	8	
16.4	Number of start-ups:		Nos.	15	15	19	8	14	
16.4.1	Cold Start-up		Nos.	3	3	6	4	1	
16.4.2	Warm Start-up		Nos.	4	4	5	2	9	
16.4.3	Hot start-up		Nos.	8	8	8	2	4	
17	NOx , SOx ,and other particulate matter	emission in : at conditions specified by	1100.	Ŭ	Ŭ	- J			
		miceien in rat containence opcomed by		COv. 600: NOv. 600					
17 1	Design value of emission control equipme	nt (specify conditions)	ma/NM3	•	5	Ox: 600: NOx: 6	300		Norms as per MOFF&CC
17.1	Design value of emission control equipme	nt (specify conditions)	mg/NM3			Ox: 600; NOx: 6			Norms as per MOEF&CC
17.1	FGD installation date	nt (specify conditions)	mg/NM3	NA I	FGD instal	lation work is un	der progress	NA	Norms as per MOEF&CC
17.1				NA				NA	Norms as per MOEF&CC
17.1	FGD installation date NOX Control system installation date	SPM	mg/Nm ³	NA	FGD instal	lation work is un	der progress	NA	Norms as per MOEF&CC
17.1	FGD installation date	SPM NOX	mg/Nm ³	NA	FGD instal	lation work is un	der progress	NA	Norms as per MOEF&CC
	FGD installation date NOX Control system installation date	SPM NOX SOX	mg/Nm ³	NA	FGD instal	lation work is un NA	der progress NA	NA	Norms as per MOEF&CC
17.1	FGD installation date NOX Control system installation date	SPM NOX	mg/Nm ³	NA	FGD instal	lation work is un	der progress NA	NA	Norms as per MOEF&CC
	FGD installation date NOX Control system installation date	SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	NA [FGD instal	lation work is un NA	der progress NA	NA	Norms as per MOEF&CC
	FGD installation date NOX Control system installation date Actual emission (Stage-I)	SPM NOX SOX SPM NOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	NA [FGD instal	lation work is un NA	der progress NA	NA	Norms as per MOEF&CC
	FGD installation date NOX Control system installation date Actual emission (Stage-I) Actual emission (Stage-II)	SPM NOX SOX SPM	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³	NA	FGD instal	lation work is un NA	der progress NA	NA	
	FGD installation date NOX Control system installation date Actual emission (Stage-I) Actual emission (Stage-II) Ash dyke capacity as on 31st March	SPM NOX SOX SPM NOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM	NA	FGD instal	lation work is un NA	der progress NA	NA	For the Station (4760 MW)
	FGD installation date NOX Control system installation date Actual emission (Stage-I) Actual emission (Stage-II) Ash dyke capacity as on 31st March Ash pond capacity as on 31st March	SPM NOX SOX SPM NOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³	NA	FGD instal	lation work is un NA	der progress NA	NA	For the Station (4760 MW) For the Station (4760 MW)
	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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	SPM NOX SOX SPM NOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM	NA	FGD instal	lation work is un NA As per Annexure	der progress NA	NA	For the Station (4760 MW)
	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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	SPM NOX SOX SPM NOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM	NA	FGD instal	lation work is un NA	der progress NA	NA	For the Station (4760 MW) For the Station (4760 MW)
	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ LCM Days		FGD instal	As per Annexure	der progress NA A		For the Station (4760 MW) For the Station (4760 MW) For the Station (4760 MW)
11.0	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days	24.60	FGD instal NA	As per Annexure As per Annexure 31.24	der progress NA	53.05	For the Station (4760 MW)
11.0	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ Ash available as on 31st March *	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days	24.60 79.58	FGD instal NA 32.12 81.86	As per Annexure As per Annexure 31.24 88.57	der progress NA -A -B 37.68 87.14	53.05 82.38	For the Station (4760 MW)
11.0	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ Ash available as on 31st March * Ash utilized for construction of ash dyke	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT	24.60 79.58 3.99	FGD instal NA 32.12 81.86 16.53	As per Annexure 31.24 88.57 19.93	der progress NAABB 37.68 87.14 12.71	53.05 82.38 11.18	For the Station (4760 MW)
11.0	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days	24.60 79.58	FGD instal NA 32.12 81.86	As per Annexure As per Annexure 31.24 88.57	der progress NA -A -B 37.68 87.14	53.05 82.38	For the Station (4760 MW)
11.0	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ Ash available as on 31st March * Ash utilized for construction of ash dyke Ash utilized within plant premise, other than construction of ash dyke	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT	24.60 79.58 3.99	FGD instal NA 32.12 81.86 16.53	As per Annexure 31.24 88.57 19.93	-B 37.68 87.14 12.71 0.40	53.05 82.38 11.18 0.36	For the Station (4760 MW)
11.0	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ 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	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT LMT	24.60 79.58 3.99 0.15	FGD instal NA 32.12 81.86 16.53 0.24	As per Annexure 31.24 88.57 19.93 0.29	der progress NAABB 37.68 87.14 12.71 0.40 1.21	53.05 82.38 11.18 0.36 5.08	For the Station (4760 MW)
11.0	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ 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 **	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT LMT LMT LMT Km	24.60 79.58 3.99 0.15	32.12 81.86 16.53 0.24	As per Annexure 31.24 88.57 19.93 0.29 -	der progress NA	53.05 82.38 11.18 0.36 5.08 150.00	For the Station (4760 MW)
11.0	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ 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	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT LMT LMT Km (%)	24.60 79.58 3.99 0.15	32.12 81.86 16.53 0.24	As per Annexure 31.24 88.57 19.93 0.29	der progress NA	53.05 82.38 11.18 0.36 5.08 150.00 5.28	For the Station (4760 MW)
11.0 19 19.1 19.2	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ 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	SPM NOX SOX SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT LMT LMT LMT Km (%) (%)	24.60 79.58 3.99 0.15 - - 9.05	32.12 81.86 16.53 0.24 - 4.54	As per Annexure As per Annexure 31.24 88.57 19.93 0.29 - 3.76 -	der progress NA	53.05 82.38 11.18 0.36 5.08 150.00 5.28 4.39	For the Station (4760 MW)
11.0 19 19.1 19.2 19.3	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ 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	SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT LMT LMT LMT (%) (%) (%)	24.60 79.58 3.99 0.15 - - 9.05 - 0.19	32.12 81.86 16.53 0.24 - - 4.54 - 0.29	As per Annexure As per Annexure 31.24 88.57 19.93 0.29 3.76 - 3.80	der progress NA NA -A -B 37.68 87.14 12.71 0.40 1.21 150.00 4.30 1.39 15.38	53.05 82.38 11.18 0.36 5.08 150.00 5.28 4.39 14.19	For the Station (4760 MW)
11.0 19 19 19.1 19.2 19.3 19.4	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ 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 u	SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT LMT LMT Km (%) (%) (%)	24.60 79.58 3.99 0.15 - 9.05 - 0.19 5.02	32.12 81.86 16.53 0.24 - - 4.54 - 0.29 20.19	As per Annexure 31.24 88.57 19.93 0.29 3.76 - 3.80 22.50	-B 37.68 87.14 12.71 0.40 1.21 150.00 4.30 1.39 15.38 14.59	53.05 82.38 11.18 0.36 5.08 150.00 5.28 4.39 14.19	For the Station (4760 MW)
11.0 19 19.1 19.2 19.3 19.4 19.5	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ 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 u Any other use , Please specify	SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT LMT LMT Km (%) (%) (%) Qty. and	24.60 79.58 3.99 0.15 - - 9.05 - 0.19 5.02 10.34	32.12 81.86 16.53 0.24 	As per Annexure 31.24 88.57 19.93 0.29 3.76 - 3.80 22.50 1.17	-B 37.68 87.14 12.71 0.40 1.21 150.00 4.30 1.39 15.38 14.59 2.02	53.05 82.38 11.18 0.36 5.08 150.00 5.28 4.39 14.19 15.34	For the Station (4760 MW)
11.0 19 19 19.1 19.2 19.3 19.4	FGD installation date NOX Control system installation date Actual emission (Stage-I) 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 produ 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 u	SPM NOX SOX SPM NOX SOX	mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ mg/Nm³ LCM Days Qty Produced LMT LMT LMT LMT Km (%) (%) (%)	24.60 79.58 3.99 0.15 - 9.05 - 0.19 5.02	32.12 81.86 16.53 0.24 - - 4.54 - 0.29 20.19	As per Annexure 31.24 88.57 19.93 0.29 3.76 - 3.80 22.50	-B 37.68 87.14 12.71 0.40 1.21 150.00 4.30 1.39 15.38 14.59	53.05 82.38 11.18 0.36 5.08 150.00 5.28 4.39 14.19	For the Station (4760 MW)

Number of employees deployed in O&M	Nos.	1,309	1,151	1,069	1,029	963	For the Station (4760 MW)
2.1 - Executives	Nos.	712	625	606	604	568	For the Station (4760 MW)
2.2 - Non Executives	Nos.	597	526	463	425	395	For the Station (4760 MW)
2.3 - Corporate office	Nos.	2,568	2,241	2,016	1,815	1,728	For the Station (4760 MW)
3 Man-MW ratio	Man/MW	0.28	0.24	0.22	0.22	0.20	For the Station (4760 MW)
Total billed amount							
Total received amount within due date							
Total amount received beyond due date							
1 Total amount pending			Α	s per Annexure	С		
1 Total amount under dispute							
1 Total rebate given							
4 Total LPSC recovered							
4 Generation Switchyard Details				Satna-3,4 -(254 ach)	For the Station (4760 MW)		
4 No. of Bays voltagewise		400 kv bays : s	tage-1 & 2 = 2 s kv bays : stag		For the Station (4760 MW)		
4 ICT - nos and rating		Stage-1	& 2 =2 ICTs, s	/132 kv)	For the Station (4760 MW)		
4 Dedicated transmission line - voltage and length				Not Applicable			For the Station (4760 MW)

^{*} Total ash generated during the Financial Year given
** Weighted average distance of Ash Transported given

S.N	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology
1	Name of Company		NTPC Ltd					Remarks
2	Name of Station/ Pit head or Non- Pit head			per thermal sta				
	Stage		Stage-3	por mormarou				
3	Installed Capacity and Configuration	MW	1000MW (500M	/W X 2)				
3.1	Date of Commercial Operation - Unit Wise	10100		006, Unit-10 :	:15.07.2007			
3.2	Effective COD		15.07.2007					
0.2	Make of Turbine			Reheat Conde	nsing Turbine (K	WU)		
4	Rated Steam Parameters (Also state the type of Steam turbine and Boiler)		Boiler: 1502 TF			- /		
5	Type of BFP		Steam Driven					
	Quantity	Per Unit	Two Steam Dr	iven (2 x 50%)	+ 1 Motor Driver	n (50%) per uni	l	
6	Circulating water system		Closed Cycle					
7	Any other Site specific feature							
	Unit heat rate design	Kcal/KWH					2,284.00	
	Boiler efficiency design	%					85.14	
	Turbine cycle heat rate design	Kcal/KWH					1,944.60	
8	Fuels:			·	·			
8.1	Primary Fuel :		Coal					
8.1.1	Annual Allocation under FSA	LMT	207.39	207.39	207.39	225.90	229.44	For the Station (4760 MW)
	Annual Consumption	LMT	52.15	52.26	52.63	55.56	50.04	
	Annual Requirment at NAPAF	LMT	47.98	48.23	51.45	49.57	49.63	
8.1.2	Sources of supply/ procurement along with contracted quantity and grade o coal		,	, ,	(G12)	, ,	o(G10)/Amlori WW	For the Station (4760 MW)
.1.2.1	FSA LoA	LMT	207.39	207.39	207.39	225.90	229.44	For the Station (4760 MW)
	[MoU	LMT	0	0	0	0	0	For the Station (4760 MW)
.1.2.2	Imported*	LMT	0	0	0	0	0	For the Station (4760 MW)
3.1.2.	Spot Market/e-auction*	LMT	0	0	0	0	0	For the Station (4760 MW)
8.1.3	Transportation Distance of the station from the sources of supply	KM			12			For the Station (4760 MW)
8.1.4	Mode of Transport				MGR/ Rail			For the Station (4760 MW)
8.1.5	Maximum Station capability to stock primary fuel (for days consider availability as	Days & LMT			19.5 days/12.7	б		For the Station (4760 MW)
8.1.6	Maximum stock maintained for primary fuel	MT			For the Station (4760 MW)			
0.4.7	Date	NAT			14-02-2019 2.46			For the Station (4760 MW)
8.1.7	Minimum Stock maintained for primary fuel Date	MT			08-10-2021			For the Station (4760 MW) For the Station (4760 MW)
8.1.8	Average stock maintained for primary fuel	MT			11.18			For the Station (4760 MW)
8.2	Secondary Fuel:	IVI I			HFO,LDO			For the Station (4760 MW)
8.2.1	Annual Allocation/ Requirement (ALL 5 STAGES)	KL		17721 /	18 (full station re	auirement)		For the Station (4760 MW)
8.2.2	Sources of supply	NL NL			IOCL /HPCL/BP			For the Station (4760 MW)
8.2.3	Transportation Distance of the station from the sources of supply	KM			62/1400 (Refiner			For the Station (4760 MW)
8.2.4	Mode of Transport	IXIVI		040/120	Rail	y locations)		For the Station (4760 MW)
8.2.5	Maximum Station capability to stock secondary fuels (ALL 5 STAGES)	KL		13902	(full station req	uirement)		For the Station (4760 MW)
8.2.6	Maximum Stock of secondary oil actually maintained (ALL 5 STAGES)	KL	9,355.18	9,040.98	9,958.55	9,423.20	8,369.39	For the Station (4760 MW)
8.2.7	Minimum Stock of secondary oil actually maintained (ALL 5 STAGES)	KL	5,720.10	4,036.20	4.400.26	4.170.15	4,553.33	For the Station (4760 MW)
8.2.8	Average Stock of secondary oil actually maintained (ALL 5 STAGES)	KL	7,076.03	5,659.12	7,373.24	6,794.84	5,794.70	For the Station (4760 MW)
9.	Cost of Spares :	INE	7,070.00	0,000.12	1,010.24	0,704.04	0,704.70	Tor the otation (47 or WVV)
9.1	Cost of Spares capitalized in the books of accounts	(Rs. Lakh)	11,419.42	12,008.00	8,528.26	12,433.16	21,345.27	For the Station (4760 MW)
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakh)	0	0		0	0	
9.3	Initial spares-list, quantity and cost	(Rs. Lakh)	Ĭ		N/A			
9.4	Maintenance spares - cost	(Rs. Lakh)	11,612.66	12,578.85		22,415.25	18,365.47	For the Station (4760 MW)
9.5	Other spares procured with high lead procurement time	(Rs. Lakh)	8,756.70	8,103.16		17,053.37	18,177.15	For the Station (4760 MW)
10	Generation :	1	1		<u> </u>		-,	, ,
10.1	-Actual Gross Generation at generator terminals	MU	8,025.17	7,991.61	7,518.16	8,246.34	7,393.78	
10.2	-Actual Net Generation Ex-bus	MU	7,590.06	7,568.18	7,103.82	7,800.22	6,975.38	
10.3	-Scheduled Generation Ex-bus	MU	7,571.00	7,584.77	7,208.26	7,765.26	7,011.10	
11	Average Declared Capacity (DC)	MW	898.21	889.89	848.06	928.64	843.20	
	DC Peak HD %	%	-	-	-	93.55	99.97	
	DC Off Peak HD %	%	-	-	-	93.38	100.54	
	DC Peak LD %	%	-	-	-	100.87	86.48	
	DC Off Peak LD %	%	-	-	-	100.97	86.38	
	Actual Declared Capacity	MU	7,868.29	7,795.46	7,449.33	8,134.90	7,386.39	

Actual Foregroup Energy Consumption excluding colony MU 430,00 419,88 419,98 425,22 419,86 118,86 11		Deemed Deelered Canasity		MU	-	1	1		ı	
Actual Energy supplied to Coloriny from the station	40	Deemed Declared Capacity	imption evaluding colony	+ + +	420.00	440.00	440.00	440.50	444.00	
Actual energy supplied to construction activations and medium browned interiors of MU										
Actual energy supplied in long term and medium term bereficiates MU 7,948.20 7,721.97 7,074.09	13					3.754				
Actual energy sugglind in short term										
Energy supplied Words Poster Sampagements			edium term beneficiaries		7,548.20	7,575.91	6,978.61	7,721.97	7,074.69	
Emergy supplied unique Mode Mod										
Energy supplied success Mul. 19.66 (6.59) (104.44) 34.96 35.72			enis I		4.70	4.04	5.00		2.24	
Emergy suggleded SCED			(40.00)							
14.1			(AG-SG)		19.06	(16.59)				
14.1	44			MU			105.80	48.02	23.22	
1.1.1 Demestic coal From Linked Mines MT NA NA NA NA NA NA NA N										
14.12	14.1	Consumption .	From Linked Mines	MT	EO 14 710	E2 26 066	52 62 474	55 56 205	50.02.672	
From Integerated Mines	14 1 1	Domestic coal								
14.13 Spot marketive auction coal MT	14.1.1	Domestic coal								
14.13 Spot marketive-auction coel MT	1/112	Imported coal	I Torri iritegerated willies							
14.2 Ornest Call (for each type) (As Billed) - EM Basis as per third party K-Call/kg 4,592.17 4,594.60 4,570.19 4,332.72 4,352.68										
14.2.1 Domestic Coal (for each type) (As Billed) i. FM Basis as per third party (As Basis 4) 4,552.27 4,594.68 4,500.77 3,493.23 3,697.56 3,005.78				IVII	INA	INA	INA	INA	INA	
A.2.1		, ,	(As Billed) - FM Basis as per third party	kCal/kg	4 552 27	4 594 40	4 570 19	4 332 72	4 352 68	
14.2.2 mported Coal	14.2.1	Domestic Coal (for each type)								
A-2.2 Imported Coal										
42.23 Spot marketie- auction coal (As Billed) KCalikig NA	14.2.2	Imported Coal								
14.2.4 Weighted Average Gross Calorific value (Domestic-Imported+Spotile KCaling A.59.4 M. A.70.1 A.33.72 A.36.2 8 A.90.4	44									
14.2.4 Weighted Average Gross Calcinific value (Domestic+Imported+Spote KCalikg 4.552.29 4.554.40 4.570.19 4.332.72 4.352.68 4.2.5 Weighted Average Gross Calcinific value (Domestic+Imported+Spote KCalikg 3.6419 3.693.07 3.693.	14.2.3	Spot market/e- auction coal								
14.2.5 Weighted Average Gross Calorific value (Domestic-Himported+Spot)e- KCalfkg 3,641.91 3,630.97 3,493.23 3,567.56 3,605.78 Ash content in coal (%) % 32.63 33.34 35.75 34.90 33.92 14.3 Price of Coal :	14.2.4	Weighted Average Gross Calorific								
Ash content in coal (%) % 32.63 33.34 35.75 34.99 33.92										
14.3 Price of coal :	5		,							
Billed Cost (including adjustments)	14.3				000				77.72	
Amount Charged by transporting agency upto delivery point										
14.3.1 Weighted Average Landed Price of Domestic coal (Rs/MT) 2.088 2.126 2.211 2.163 2.105			pto delivery point							
Components of landed cost and break up (Rs/MT) 2,031 2,072 2,117 2,088 2,018	14.3.1			(Rs/MT)	2.089	2.126	2.211	2.163	2.105	
1. Cost of coal, (Rs/MT) 2,031 2,072 2,117 2,068 2,018 2. Transportation (Rs/MT) 41 42 70 68 57 3. Other charges (Rs/MT) 17 12 23 27 30 3. Other charges (Rs/MT) 17 12 23 27 30 4.3.2 Weighted Average Landed Price of Imported coal (Rs/MT) NA NA NA NA Components of landed cost and break up (Rs/MT) NA NA NA NA NA NA Components of landed cost and break up (Rs/MT) NA NA NA NA NA NA NA N				(********)	_,,,,,	_,	_,	_,	_,	
2. Transportation (Rs/MT) 41 42 70 68 57 3. Other charges (Rs/MT) 17 12 23 27 30 14.3.2 Weighted Average Landed Price of Imported coal (Rs/MT) NA NA NA NA NA Components of landed cost and break up (Rs/MT) NA NA NA NA NA Weighted Average Landed Price of Spot market / e-auction coal (Rs/MT) NA NA NA NA NA 14.3.3 Weighted Average Landed Price of Spot market / e-auction coal (Rs/MT) NA NA NA NA NA 14.3.4 Weighted Average Landed Price of Spot market / e-auction coal (Rs/MT) 2,089 2,126 2,211 2,163 2,105 14.4.4 Blending :			1. Cost of coal,	(Rs/MT)	2,031	2,072	2,117	2,068	2,018	
14.3.2 Weighted Average Landed Price of Imported coal (Rs/MT) NA NA NA NA NA NA NA N			2. Transportation	(Rs/MT)	41	42		68	57	
14.3.2 Weighted Average Landed Price of Imported coal (Rs/MT) NA NA NA NA NA NA NA N			3. Other charges	(Rs/MT)	17	12	23	27	30	
14.3.3 Weighted Average Landed Price of Spot market / e-auction coal (Rs/MT) NA	14.3.2	Weighted Average Landed Price of Impor			NA	NA				
Components of landed cost and break up		Components of landed cost and break up								
14.3.4 Weighted Average Landed Price of all the Coals (Rs/MT) 2,089 2,126 2,211 2,163 2,105	14.3.3	Weighted Average Landed Price of Spot	market / e-auction coal	(Rs/MT)	NA	NA	NA	NA	NA	
Secondary Seco		Components of landed cost and break up		, , , , , , , , , , , , , , , , , , ,						
14.4 Blending :	14.3.4	Weighted Average Landed Price of all the	Coals	(Rs/MT)	2,089	2,126	2,211	2,163	2,105	
Blending ratio of imported coal with domestic coal Equivalent to domestic coal Equivalent to domestic coal O O O O O O O O O				% and MT	•	ĺ				
Blending ratio of imported coal with domestic coal Equivalent to domestic coal Equivalent to domestic coal Equivalent to domestic coal Coal stockyard capacity Coal stockyard capacity LMT 12.76 For the Station (4760 MW)	44.4	Diametina		(of the total						
Blending ratio of imported coal with domestic coal Coal stockyard capacity Coal stockyard capacity LMT 11.76 17.42 8.44 10.50 7.76 For the Station (4760 MW)	14.4	Biending:		coal						
14.4.2 Proportion of e-auction coal in the blending				consumed)						
14.4.2 Proportion of e-auction coal in the blending % & MT 0 0 0 0 0 0 0 0 0		Blanding ratio of imported coal with domo	etic coal			-		0		
Coal stockyard capacity		•			0	0	0	0	0	
14.5 Actual daily Average Coal stock maintained LMT 11.76 17.42 8.44 10.50 7.76 For the Station (4760 MW) 14.5 Actual Transit & Handling Losses for coal/Lignite For the Station (4760 MW) 14.5.1 Pit. Head Station For the Station (4760 MW) 14.5.1.1 Transit loss from linked mines M 0.20 0.20 0.23 0.23 0.29 For the Station (4760 MW) 14.5.1.2 Transit loss from non-linked mines including e-auction coal mines. M For the Station (4760 MW) 14.5.1.3 Transit loss from ported coal M NA NA NA NA NA For the Station (4760 MW) 14.5.2.1 Transit loss from linked mines M NA NA NA NA NA NA For the Station (4760 MW) 14.5.2.2 Transit loss from inhed mines including e-auction coal mines. M NA NA NA NA NA NA NA	14.4.2		9		0	0	v	0	0	
14.5 Actual Transit & Handling Losses for coal/Lignite		Coal stockyard capacity								
Days 17.55 26.00 12.60 15.67 11.58 For the Station (4760 MW)	14.5	Actual daily Average Coal stock maintains	nd	LMT	11.76	17.42	8.44	10.50		
14.5 Actual Transit & Handling Losses for coal/Lignite		, ,		Days	17.55	26.00	12.60	15.67	11.58	
14.5.1.1 Transit loss from linked mines % 0.20 0.20 0.23 0.23 0.29 For the Station (4760 MW) 14.5.1.2 Transit loss from non-linked mines including e-auction coal mines. % For the Station (4760 MW) 14.5.1.3 Transit loss of imported coal % For the Station (4760 MW) 14.5.2.1 Transit loss from linked mines % NA NA NA NA NA NA For the Station (4760 MW) 14.5.2.2 Transit loss from linked mines % NA NA NA NA NA NA NA			Lignite							
14.5.1.2 Transit loss from non-linked mines including e-auction coal mines. % - - - - - For the Station (4760 MW) 14.5.1.3 Transit loss of imported coal % - - - - - For the Station (4760 MW) 14.5.2.1 Non-Pit Head station NA NA <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
14.5.1.3 Transit loss of imported coal %					0.20	0.20	0.23	0.23	0.29	
14.5.2 Non-Pit Head station NA NA NA NA NA NA NA N			ng e-auction coal mines.		-		-	-	-	
14.5.2.1 Transit loss from linked mines % NA				%	-					
14.5.2.2 Transit loss from non-linked mines including e-auction coal mines. % NA										
14.5.2.3 Transit loss of imported coal % NA <										
15 Secondary Fuel Oil : 15.1 Consumption HFO LDO KL 565 1,162 613 479 1,096 1			ng e-auction coal mines.							
15.1 Consumption HFO KL 565 1,162 613 479 1,096 LDO KL 158.00 46.00 265.00 271.00 476.00				%	NA	NA	NA	NA	NA	For the Station (4760 MW)
15.1 Consumption LDO KL 158.00 46.00 265.00 271.00 476.00	15	Secondary Fuel Oil :								
LDO KL 158.00 46.00 265.00 2/1.00 4/6.00	15.1	Consumption			565					
15.2 Weighted Average Gross Calorific HFO (kCal / Lit.) 9,820 9,833 9,835 9,858 9,843		'		KL						
	15.2	Weighted Average Gross Calorific	HFO	(kCal / Lit.)	9,820	9,833	9,835	9,858	9,843	

10.2	value (As received)	LDO	(kCal / Lit.)	9,430.25	9,442.39	9,463.64	9,468.78	9,202.35	
	,	HFO	(Rs / KL)	29,981	40,203	39,855	43,342	54,468	
15.3	Weighted Average Price	LDO	(Rs / KL)	47,802	54,337	50,674	53,512	73,802	
45.4		HFO (ALL 5 STAGES)	KL	4,845.06	3,462.40	4,840.21	4,531.07	3,041.10	For the Station (4760 MW)
15.4	Actual Average stock maintained	LDO (ALL 5 STAGES)	KL	2,230.97	2,196.71	2,533.03	2,263.77	2,753.61	For the Station (4760 MW)
16	Weighted average duration of outages	s(unit-wise details):		,	,	,	,	,	, , , ,
16.1	Planned Outages (for 2 units)		(Days)	15.51	15.75	22.99	6.33	24.84	
16.2	Forced Outages (for 2 units)		(Days)	2.24	4.02	10.58	5.88	17.23	
	Within control of generator		(Days)	-	0.18	0.04	-	-	
	beyond control of generator		(Days)	2.24	3.84	10.53	5.88	17.23	
16.3	Number of tripping		Nos.	5	6	4	2	6	
16.4	Number of start-ups:		Nos.	9	10	8	4	15	
16.4.1	Cold Start-up		Nos.	1	2	3	2	9	
16.4.2	Warm Start-up		Nos.	3	3	3	1	3	
16.4.3 17	Hot start-up NOx , SOx ,and other particulate matter e	umission in that conditions appoiling by	Nos.	5	5	2	1	3	
17.1	Design value of emission control equipme		/NINAO			SOx: 200; NOx:	450		Norms as per MOEF&CC
17.1	FGD installation date	I (specify conditions)	mg/NM3			llation work is u			NOTHS as per MOEFACC
			-	NA	NA NA	NA NA	NA NA	NA	
	NOX Control system installation date	SPM	3	INA	INA	INA	INA	INA	
	Astro-Louis de (Otama I)		mg/Nm ³						
	Actual emission (Stage-I)	NOX	mg/Nm ³						
11.0		SOX	mg/Nm ³			As per Annexur	e-A		
		SPM	mg/Nm ³			por Armoxum			
	Actual emission (Stage-II)	NOX	mg/Nm ³						
		SOX	mg/Nm ³						
	Ash dyke capacity as on 31st March		LCM						For the Station (4760 MW)
	Ash pond capacity as on 31st March		Days						For the Station (4760 MW)
	Fund avalable in Ash Fund Account as on				•	As per Annexur			For the Station (4760 MW)
	31st March				, ,				
19	Amount utilized from Ash Fund Account Detail of Ash utilization % of fly ash produ	and	Qty Produced	04.00	32.12	31.24	37.68	53.05	For the Station (4760 MW) For the Station (4760 MW)
19	Ash available as on 31st March *	T T	LMT	24.60 79.58	32.12 81.86	88.57	87.14	82.38	For the Station (4760 MW)
	Ash utilized for construction of ash dyke		LMT	3.99	16.53	19.93	12.71	11.18	For the Station (4760 MW)
	Ash utilized within plant premise, other								,
	than construction of ash dyke		LMT	0.15	0.24	0.29	0.40	0.36	For the Station (4760 MW)
	Ash transported		LMT	-	-	-	1.21	5.08	For the Station (4760 MW)
	Average Distance **		Km	-	-	-	150.00	150.00	For the Station (4760 MW)
19.1	Conversion of value added product		(%)	9.05	4.54	3.76	4.30	5.28	For the Station (4760 MW)
19.2	For making roads &embarkment		(%)	-	-	-	1.39	4.39	For the Station (4760 MW)
19.3	Land filling		(%)	0.19	0.29	3.80	15.38	14.19	For the Station (4760 MW)
19.4	Used in plant site in one or other form or u	usea in some other site	(%)	5.02	20.19	22.50	14.59	15.34	For the Station (4760 MW)
	Any other use , Please specify		Qty. and	10.34	7.10	1.17	2.02	13.84	For the Station (4760 MW)
20	Cost of spares actually consumed Average stock of spares		(Rs. Lakh)	11,419.42	12,008.00	8,528.26 36,748.43	12,433.16	21,345.27	For the Station (4760 MW) For the Station (4760 MW)
21 22	Number of employees deployed	in O&M	(Rs. Lakhs) Nos.	27,679.50	30,046.02 1,151	1,069	39,369.44 1,029	40,122.89 963	For the Station (4760 MW) For the Station (4760 MW)
22.1	- Executives	III Odivi	Nos.	1,309 712	625	606	604	568	For the Station (4760 MW)
22.1	- Non Executives		Nos.	597	526	463	425	395	For the Station (4760 MW)
22.3	- Corporate office		Nos.	2,568	2,241	2,016	1,815	1,728	For the Station (4760 MW)
23	Man-MW ratio		Man/MW	0.28	0.24	0.22	0.22	0.20	For the Station (4760 MW)
24	Total billed amount			3.23	0.21	V.22	V.22	0.20	
24	Total received amount within due date								
24	Total amount received beyond due date						_		
24	Total amount pending					As per Annexur	e C		
24	Total amount under dispute								
24	Total rebate given Total LPSC recovered								
24	Total LPSC recovered								
24	Generation Switchyard Details		Stage-1,2,3 = 400KV lines= Jabalpur-1,2 (360 km each), Korba-1,2 (386 km each), Satna-1,2 (262km each), Rewa- 206km, Sasan- 20km, Satna-3,4 -(254 km each) , 132 KV Lines = Waidhan-1,2 (10 Km each) Stage-4,5 = Pooling line-1,2,3,4 (28km each), (All 400KV)				Satna-3,4 -(254 ach)	For the Station (4760 MW)	

24	No. of Bays voltagewise	400 kv bays : stage-1 & 2 = 26 bays, stage-3 =11 bays, stage-4 = 17 bays, stage-5 = 12 bays 132 kv bays : stage-1 & 2 = 14 bays, stage-3 =6 bays	For the Station (4760 MW)
24	ICT - nos and rating	Stage-1 & 2 =2 ICTs, stage-3 =1 ICT (All ICTs 400 kv /132 kv)	For the Station (4760 MW)
24	Dedicated transmission line - voltage and length	Not Applicable	For the Station (4760 MW)
	* Total ash generated during the Financial Year given	•	

^{**} Weighted average distance of Ash Transported given

S.N		erformance/operational data for the or included in the original section of the	Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology Remarks
1	Name of Company			NTPC Limited			L		Romano
2	Name of Station/ Pit head or Non- Pit he	ad		Vindhyachal Su	per thermal sta	ation / Pit head			
	Stage			Stage-4	•				
3	Installed Capacity and Configuration		MW	1000MW (500M					
3.1	Date of Commercial Operation - Unit Wis	se		Unit-11:01.03.	2013, Unit-12:	:27.03.2014			
3.2	Effective COD			27.03.2015					
	Make of Turbine					ensing Turbine (k	(WU)		
4		e the type of Steam turbine and Boiler)		Boiler: 1590 TF		C/ 176 KSC			
5	Type of BFP			Steam Driven					
	Quantity		Per Unit		iven (2 x 50%)	+ 1 Motor Drive	n (50%) per unit		
6	Circulating water system			Closed Cycle					
7	Any other Site specific feature								
	Unit heat rate	design	Kcal/KWH					2,300.20	
	Boiler efficiency	design	%					84.00	
	Turbine cycle heat rate	design	Kcal/KWH					1,932.20	
8	Fuels:			1		Cool			
8.1	Primary Fuel : Annual Allocation under FSA		LNAT	007.00	007.00	Coal	205.00	000.44	For the Station (4760 MMM)
8.1.1	Annual Consumption		LMT LMT	207.39 50.26	207.39 53.49	207.39 54.01	225.90 49.72	229.44 51.86	For the Station (4760 MW)
	Annual Requirment at NAPAF		LMT	47.65	48.31	50.72	48.99	49.37	
		I ong with contracted quantity and grade of	LIVII			(C11)/DCH Sile		(G10)/Amlori WW	
8.1.2	coal					(G12)			For the Station (4760 MW)
.1.2.1	FSA	LoA	LMT	207.39	207.39	207.39	225.90	229.44	For the Station (4760 MW)
		MoU	LMT	0	0	0	0	0	For the Station (4760 MW)
.1.2.2	Imported*		LMT	0	0	0	0	0	For the Station (4760 MW)
3.1.2.	Spot Market/e-auction*		LMT	0	0	0	0	0	For the Station (4760 MW)
8.1.3	Transportation Distance of the station fro	m the sources of supply	KM			12			For the Station (4760 MW)
8.1.4	Mode of Transport					MGR/ Rail	70		For the Station (4760 MW)
8.1.5		ary fuel (for days consider availability as	Days & LMT			19.5 days/12.	76		For the Station (4760 MW)
8.1.6	Maximum stock maintained for primary for	JEI	MT			19.98			For the Station (4760 MW)
0.4.7	Date Minimum Stock maintained for primary for		MT			14-02-2019 2.46			For the Station (4760 MW)
8.1.7	Date	lei	IVI I			08-10-2021			For the Station (4760 MW) For the Station (4760 MW)
8.1.8	Average stock maintained for primary fu	d and a second a second and a second a second and a second a second and a second and a second a second a second a second a second and a second and a second and a second a second a second	MT			11.18			For the Station (4760 MW)
8.2	Secondary Fuel :	-	IVI I			HFO,LDO			For the Station (4760 MW)
8.2.1		ent (ALL 5 STAGES)	KL		17721 /	48 (full station re	equirement)		For the Station (4760 MW)
8.2.2	Sources of supply	iciii (ALL 3 0 TAGLO)	NL NL		17721	IOCL /HPCL/BF			For the Station (4760 MW)
8.2.3	Transportation Distance of the station from	m the sources of supply	KM		848/126	62/1400 (Refiner			For the Station (4760 MW)
8.2.4	Mode of Transport	and counced or capping	TGIVI		0.07.20	Rail	<i>y</i>		For the Station (4760 MW)
8.2.5	Maximum Station capability to stock sec	ondary fuels (ALL 5 STAGES)	KL		13902	2 (full station red	guirement)		For the Station (4760 MW)
8.2.6	Maximum Stock of secondary oil actuall		KL	9,355.18	9,040.98	9,958.55	9,423.20	8,369.39	For the Station (4760 MW)
8.2.7	Minimum Stock of secondary oil actually		KL	5,720.10	4,036.20		4,170.15	4,553.33	For the Station (4760 MW)
8.2.8	Average Stock of secondary oil actually	maintained (ALL 5 STAGES)	KL	7,076.03	5,659.12		6,794.84	5,794.70	For the Station (4760 MW)
9.	Cost of Spares :	·							
9.1	Cost of Spares capitalized in the books of	f accounts	(Rs. Lakh)	11,419.42	12,008.00	8,528.26	12,433.16	21,345.27	For the Station (4760 MW)
9.2	Cost of spares included in capital cos	t for the purpose of tariff	(Rs. Lakh)	0	0		0	0	
9.3	Initial spares-list, quantity and cost		(Rs. Lakh)			N/A			
9.4	Maintenance spares - cost		(Rs. Lakh)	11,612.66	12,578.85		22,415.25	18,365.47	For the Station (4760 MW)
9.5	Other spares procured with high lead pro	curement time	(Rs. Lakh)	8,756.70	8,103.16	9,442.62	17,053.37	18,177.15	For the Station (4760 MW)
10	Generation :								
10.1	-Actual Gross Generation at gener	MU	7,778.36	8,200.02	7,856.45	7,433.59	7,714.51		
10.2	-Actual Net Generation Ex-bus	MU	7,353.96	7,740.00	7,407.13	7,025.79	7,282.27		
10.3	-Scheduled Generation Ex-bus		MU	7,282.54	7,695.42	7,370.72	6,941.91	7,232.43	
11	Average Declared Capacity (DC)	T	MW	857.31	903.78	863.64	823.59	864.94	
		DC Peak HD %	%	-	-	-	89.93	101.91	
		DC Off Peak HD %	%	-	-	-	90.28	101.74	
		DC Peak LD %	%	-	-	-	87.12	89.28	
	1	DC Off Peak LD %	%	-	-	7.500.05	87.04	89.01	
	Actual Declared Capacity Deemed Declared Capacity		MU MU	7,510.04	7,917.15	7,586.23	7,214.66	7,576.85	

40	Actual Auxilian: France Com-	umntion evaluding	NALL I	440 50	450.00	44F 0F 1	404.00 [400 50	
		umption excluding colony	MU MU	419.50	456.22 3.800	445.85	404.60 3.008	428.59	
13	Actual Energy supplied to Colony from			4.693	3.800	3.473		3.229	
	Actual energy supplied to construction act		MU	0.203	-		0.192	0.426	
	Actual energy supplied to long term and n	nedium term beneficiaries	MU	7,265.73	7,689.24	7,159.29	6,875.49	7,315.23	
	Actual energy supplied in short term		MU						
	Energy supplied under bilateral arrangem	ents I	MU	4.00			10.10	2.00	
	Energy supplied through excahnges	(40.00)	MU	4.88	- 44.50	-	12.48	0.93	
	Energy supplied under DSM	(AG-SG)	MU	71.42	44.58	36.41	83.88	49.84	
4.4	Energy supplied SCED		MU			119.24	64.84	35.61	
14	Primary Fuel :								
14.1	Consumption :	Ie		50.00.440	50.40.040	5400 707	10 70 005	54.05.000	
4444	D	From Linked Mines	MT	50,26,148	53,49,313	54,00,787	49,72,265	51,85,826	
14.1.1	Domestic coal	From Non-Linkd Mines	MT	NA	NA	NA	NA	NA	
4440	I and the second	From Integerated Mines	MT	NA	NA	NA	NA	NA	
	Imported coal		MT	NA	NA	NA	NA	NA	
14.1.3	Spot market/e-auction coal		MT	NA	NA	NA	NA	NA	
14.2	Gross Calorific Value (GCV) :	T							
14.2.1	Domestic Coal (for each type)	(As Billed) - EM Basis as per third party	kCal/kg	4,552.27	4,594.40	4,570.19	4,332.72	4,352.68	
	, ,,,,	(As Received) - TM Basis as per third	kCal/kg	3,643.99	3,641.18	3,512.81	3,570.40	3,586.66	
14.2.2	Imported Coal	(As Billed) - ADB Basis	kCal/kg	NA	NA	NA	NA	NA	
	•	(As Received) - ADB Basis	kCal/kg	NA	NA NA	NA	NA	NA	
14.2.3	Spot market/e- auction coal	(As Billed)	kCal/kg	NA	NA	NA	NA	NA	
	'	(As Received)	kCal/kg	NA	NA 1.501.10	NA	NA 4 000 70	NA 4 050 00	
	Weighted Average Gross Calorific	value (Domestic+Imported+Spot/e-	kCal/kg	4,552.27	4,594.40	4,570.19	4,332.72	4,352.68	
14.2.5		value (Domestic+Imported+Spot/e-	kCal/kg	3,643.99	3,641.18	3,512.81	3,570.40	3,586.66	
	Ash content in coal (%)		%	32.63	33.34	35.75	34.90	33.92	
14.3	Price of coal :								
	Billed Cost (including adjustments)								
	Amount Charged by transporting agency of								
14.3.1	Weighted Average Landed price of Dome	estic coal	(Rs/MT)	2,089	2,126	2,211	2,163	2,105	
	Components of landed cost and break up								
		1. Cost of coal,	(Rs/MT)	2,031	2,072	2,117	2,068	2,018	
		2. Transportation	(Rs/MT)	41	42	70	68	57	
		3. Other charges	(Rs/MT)	17	12	23	27	30	
14.3.2	Weighted Average Landed Price of Impo	rted coal	(Rs/MT)	NA	NA	NA	NA	NA	
	Components of landed cost and break up								
14.3.3	Weighted Average Landed Price of Spot	market / e-auction coal	(Rs/MT)	NA	NA	NA	NA	NA	
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the	Coals	(Rs/MT)	2,089	2,126	2,211	2,163	2,105	
			% and MT						
14.4	Blending:		(of the total						
14.4	Bieriding .		coal						
			consumed)						
	Blending ratio of imported coal with dome	etic coal	Equivalent to	0	0	0	0	0	
	,		domestic coal	U	U	U	٥	U	
14.4.2	Proportion of e-auction coal in the blending	g	% & MT	0	0		0	0	
	Coal stockyard capacity		LMT			12.76			For the Station (4760 MW)
14.5	Actual daily Average Coal stock maintain		LMT	11.76	17.42	8.44	10.50	7.76	For the Station (4760 MW)
	, ,		Days	17.55	26.00	12.60	15.67	11.58	For the Station (4760 MW)
14.5	Actual Transit & Handling Losses for coal	/Lignite			_				For the Station (4760 MW)
	Pit- Head Station								For the Station (4760 MW)
	Transit loss from linked mines		%	0.20	0.20	0.23	0.23	0.29	For the Station (4760 MW)
14.5.1.2	Transit loss from non-linked mines includi	ng e-auction coal mines.	%	-	_	-	-	-	For the Station (4760 MW)
14.5.1.3	Transit loss of imported coal		%	-	-	-	-	-	For the Station (4760 MW)
	Non-Pit Head station			NA	NA	NA	NA	NA	For the Station (4760 MW)
	nsit loss from linked mines		%	NA	NA	NA	NA	NA	For the Station (4760 MW)
	Transit loss from non-linked mines includi	ng e-auction coal mines.	%	NA	NA	NA	NA	NA	For the Station (4760 MW)
14.5.2.3		-	%	NA	NA	NA	NA	NA	For the Station (4760 MW)
15	Secondary Fuel Oil :		1						,,
	•	IHFO	KL	862	580	780	1,144	734	
15.1	Consumption	LDO	KL	730.00	392.00	717.00	565.00	362.00	
45.0	Weighted Average Gross Calorific	(kCal / Lit.)	9,819	9,826	9.834	9.912	9,884		
15.2	value (As received)	(kCal / Lit.)	9,464	9,468	9,462	9,658	8,981		
45.5	<u> </u>	LDO HFO	(Rs / KL)	29,981	40,203	39,855	43,342	54,468	
15.3	Weighted Average Price	<u>· · · · · · · · · · · · · · · · · · · </u>	(/ /	_0,001	.0,200	55,550	.0,0.2	0.,100	

10.0	Weighted Average Fine	LDO	(Rs / KL)	47,802	54,337	50,674	53,512	73,802	
45.4		HFO (ALL 5 STAGES)	KL	4,845.06	3,462.40	4,840.21	4,531.07	3,041.10	For the Station (4760 MW)
15.4	Actual Average stock maintained	LDO (ALL 5 STAGES)	KL	2,230.97	2,196.71	2,533.03	2,263.77	2,753.61	For the Station (4760 MW)
16	Weighted average duration of outages			_,	_,	_,,,,,,,,,,,		-,	
16.1	Planned Outages (for 2 units)	,	(Days)	26.43	12.31	17.24	38.67	23.90	
16.2	Forced Outages (for 2 units)		(Days)	4.61	1.76	9.22	8.27	5.15	
	Within control of generator		(Days)	-	-	-	0.09	-	
	beyond control of generator		(Days)	4.61	1.76	9.22	8.18	5.15	
16.3	Number of tripping		Nos.	4	11	10	9	3	
16.4	Number of start-ups:		Nos.	11	12	15	16	6	
16.4.1	Cold Start-up		Nos.	3	1	1	5	2	
	Warm Start-up		Nos.	5	1	6	7	3	
16.4.3	Hot start-up		Nos.	3	10	8	4	1	
17	NOx , SOx ,and other particulate matter e					20 202 110	150		
17.1	Design value of emission control equipme	nt (specify conditions)	mg/NM3			SOx: 200; NOx:			Norms as per MOEF&CC
	FGD installation date					llation work is u			
	NOX Control system installation date		2	NA	NA	NA	NA	NA	
	1	SPM	mg/Nm ³						
	Actual emission (Stage-I)	NOX	mg/Nm ³						
11.0		SOX	mg/Nm ³			As per Annexur	ο_Λ		
11.0		SPM	mg/Nm ³			ve her vrinexni	c- ∧		
	Actual emission (Stage-II)	NOX	mg/Nm ³						
		SOX	mg/Nm ³						
	Ash dyke capacity as on 31st March	COX	LCM	1					For the Station (4760 MW)
	Ash pond capacity as on 31st March		Days						For the Station (4760 MW)
	Fund avalable in Ash Fund Account as on		Dayo	l l		I	ı		
	31st March					As per Annexur	e-B		For the Station (4760 MW)
	Amount utilized from Ash Fund Account								For the Station (4760 MW)
19	Detail of Ash utilization % of fly ash produ-	ced	Qty Produced	24.60	32.12	31.24	37.68	53.05	For the Station (4760 MW)
	Ash available as on 31st March *		LMT	79.58	81.86	88.57	87.14	82.38	For the Station (4760 MW)
	Ash utilized for construction of ash dyke		LMT	3.99	16.53	19.93	12.71	11.18	For the Station (4760 MW)
	Ash utilized within plant premise, other		LMT	0.15	0.24	0.29	0.40	0.36	For the Station (4760 MM)
	than construction of ash dyke		LIVII	0.15	0.24	0.29	0.40	0.30	For the Station (4760 MW)
	Ash transported		LMT	-	-	-	1.21	5.08	For the Station (4760 MW)
	Average Distance **		Km	-	-	-	150.00	150.00	For the Station (4760 MW)
19.1	Conversion of value added product		(%)	9.05	4.54	3.76	4.30	5.28	For the Station (4760 MW)
19.2	For making roads &embarkment		(%)	-	-	-	1.39	4.39	For the Station (4760 MW)
19.3	Land filling		(%)	0.19	0.29	3.80	15.38	14.19	For the Station (4760 MW)
19.4	Used in plant site in one or other form or u	ised in some other site	(%)	5.02	20.19	22.50	14.59	15.34	For the Station (4760 MW)
19.5	Any other use , Please specify		Qty. and	10.34	7.10	1.17	2.02	13.84	For the Station (4760 MW)
20	Cost of spares actually consumed Average stock of spares		(Rs. Lakh)	11,419.42 27.679.50	12,008.00	8,528.26 36.748.43	12,433.16 39,369.44	21,345.27	For the Station (4760 MW) For the Station (4760 MW)
21	Number of employees deployed i	n O&M	(Rs. Lakhs) Nos.	,	30,046.02	1,069	1,029	40,122.89 963	For the Station (4760 MW) For the Station (4760 MW)
22.1	- Executives	II Odivi	Nos.	1,309 712	1,151 625	1,069	1,029	963 568	For the Station (4760 MW) For the Station (4760 MW)
22.1	- Non Executives		Nos.	597	526	463	425	395	For the Station (4760 MW)
22.2	- Corporate office		Nos.	2,568	2,241	2,016	1.815	1.728	For the Station (4760 MW)
23	Man-MW ratio		Man/MW	0.28	0.24	0.22	0.22	0.20	For the Station (4760 MW)
24	Total billed amount		IVIGIT/IVIVV	0.20	0.24	0.22	0.22	0.20	1 of the otation (4700 MW)
24	Total received amount within due date								
24	Total amount received beyond due date								
24	Total amount pending					As per Annexur	e C		
24	Total amount under dispute								
24	Total rebate given								
24	Total LPSC recovered								
				Stage-1 2 3 =	400KV lines=	.labalpur-1 2 (36	60 km each), Kor	ha-1 2 (386 km	
24	Generation Switchyard Details			each), Satna-1	,2 (262km eac	h), Rewa- 206kr	n, Sasan- 20km,	Satna-3,4 -(254	For the Station (4760 MW)
24	Generation Switchyard Details						nan-1,2 (10 Km e		For the Station (4760 MW)
				Stag	e-4,5 = Pooling	g line-1,2,3,4 (28	3km each), (All 4	00KV)	
			1			•			<u> </u>

24	No. of Bays voltagewise	400 kv bays : stage-1 & 2 = 26 bays, stage-3 =11 bays, stage-4 = 17 bays, stage-5 = 12 bays 132 kv bays : stage-1 & 2 = 14 bays, stage-3 =6 bays	For the Station (4760 MW)
24	ICT - nos and rating	Stage-1 & 2 =2 ICTs, stage-3 =1 ICT (All ICTs 400 kv /132 kv)	For the Station (4760 MW)
24	Dedicated transmission line - voltage and length	Not Applicable	For the Station (4760 MW)

^{*} Total ash generated during the Financial Year given
** Weighted average distance of Ash Transported given

S.N		erformance/operational data for the officers	Units	2017-18	2018-19	2019-20	2020-21	2021-22	Basis of Information/ Methodology Remarks
1	Name of Company			NTPC LTd		l	l I		Remarks
2	Name of Station/ Pit head or Non- Pit he	ad			per thermal sta	ation / Non Pit he	ead		
	Stage			Stage-5					
3	Installed Capacity and Configuration		MW	500MW (500M	W X 1)				
3.1	Date of Commercial Operation - Unit Wis	se		Unit-13 :30.10.					
3.2	Effective COD			Unit-13 :30.10.					
	Make of Turbine			Three Cylinder	Reheat Conde	nsing Turbine (Ł	(WU)		
4		e the type of Steam turbine and Boiler)		Boiler: 1590 TF	PH/ 540 C/568 (C/ 176 KSC			
5	Type of BFP			Steam Driven	BFPs				
	Quantity		Per Unit	Two Steam Dr	iven (2 x 50%)	+ 1 Motor Drive	n (50%)		
6	Circulating water system			Closed Cycle					
7	Any other Site specific feature								
	Unit heat rate	design	Kcal/KWH					2,287.40	
	Boiler efficiency	design	%					84.47	
	Turbine cycle heat rate	design	Kcal/KWH					1,932.20	
8	Fuels:								
8.1	Primary Fuel:					Coal			F
8.1.1	Annual Allocation under FSA	1	LMT	207.39	207.39	207.39	225.90	229.44	For the Station (4760 MW)
	Annual Consumption		LMT	26.52	25.14	28.17	26.51	24.73	
	Annual Requirment at NAPAF		LMT	23.82	23.73	25.23	24.36	24.64	
8.1.2	coal	ong with contracted quantity and grade of				(G12)		(G10)/Amlori WW	For the Station (4760 MW)
.1.2.1	FSA	LoA	LMT	207.39	207.39	207.39	225.90	229.44	For the Station (4760 MW)
		MoU	LMT	0	0	0	0	0	For the Station (4760 MW)
1.2.2	Imported*		LMT	0	0	0	0	0	For the Station (4760 MW)
3.1.2.	Spot Market/e-auction*		LMT	0	0	0	0	0	For the Station (4760 MW)
8.1.3	Transportation Distance of the station from	m the sources of supply	KM			12			For the Station (4760 MW)
8.1.4	Mode of Transport		D 0114T			MGR/ Rail	70		For the Station (4760 MW)
8.1.5		nary fuel (for days consider availability as	Days & LMT			19.5 days/12. 19.98	/6		For the Station (4760 MW)
8.1.6	Maximum stock maintained for primary for	Jei	MT			14-02-2019			For the Station (4760 MW) For the Station (4760 MW)
8.1.7	Date Minimum Stock maintained for primary for	lol.	MT			2.46			For the Station (4760 MW)
0.1./	Date		IVI I			08-10-2021			For the Station (4760 MW)
8.1.8	Average stock maintained for primary fu	2	MT			11.18			For the Station (4760 MW)
8.2	Secondary Fuel :	,	IVII			HFO,LDO			For the Station (4760 MW)
8.2.1		nent (ALL 5 STAGES)	KL		17721 4	48 (full station r	equirement)		For the Station (4760 MW)
8.2.2	Sources of supply	ion (i izz o o ii iozo)	I L			IOCL /HPCL/BI			For the Station (4760 MW)
8.2.3	Transportation Distance of the station from	m the sources of supply	KM		848/126	62/1400 (Refine			For the Station (4760 MW)
8.2.4	Mode of Transport	11.7				Rail	,		For the Station (4760 MW)
8.2.5	Maximum Station capability to stock sec	ondary fuels (ALL 5 STAGES)	KL		13902	(full station red	quirement)		For the Station (4760 MW)
8.2.6	Maximum Stock of secondary oil actuall		KL	9,355.18	9,040.98	9,958.55	9,423.20	8,369.39	For the Station (4760 MW)
8.2.7	Minimum Stock of secondary oil actually		KL	5,720.10	4,036.20	4,400.26	4,170.15	4,553.33	For the Station (4760 MW)
8.2.8	Average Stock of secondary oil actually	maintained (ALL 5 STAGES)	KL	7,076.03	5,659.12	7,373.24	6,794.84	5,794.70	For the Station (4760 MW)
9.	Cost of Spares :								
9.1	Cost of Spares capitalized in the books of	f accounts	(Rs. Lakh)	11,419.42	12,008.00		12,433.16	21,345.27	For the Station (4760 MW)
9.2	Cost of spares included in capital cos	t for the purpose of tariff	(Rs. Lakh)			7950.06			
9.3	Initial spares-list, quantity and cost		(Rs. Lakh)			8978.73			
9.4	Maintenance spares - cost		(Rs. Lakh)	11,612.66	12,578.85	13,259.38		18,365.47	For the Station (4760 MW)
9.5	Other spares procured with high lead pro	curement time	(Rs. Lakh)	8,756.70	8,103.16	9,442.62	17,053.37	18,177.15	For the Station (4760 MW)
10	Generation :			1					
10.1	ctual Gross Generation at generator terminals		MU	4,122.43	3,875.00	4,085.30	3,984.40	3,663.68	
10.2	-Actual Net Generation Ex-bus	MU	3,891.51	3,653.66	3,851.86	3,738.67	3,429.58		
10.3	-Scheduled Generation Ex-bus		MU	3,865.67	3,627.45	3,844.07	3,696.74	3,419.81	
11	Average Declared Capacity (DC)	Inon Luna	MW	466.84	432.54	456.99	447.82	420.30	
		DC Peak HD %	%	-	-	-	92.98	102.11	
		DC Off Peak HD %	%	-	-	-	93.19	102.59	
		DC Peak LD %	%	-	-	-	98.11	86.35	
	Astro-I Basilana I Garagi	DC Off Peak LD %	%	- 4 000 55	0.700.00	404440	97.63	86.68	
	Actual Declared Capacity Deemed Declared Capacity	1	MU MU	4,089.55	3,789.06	4,014.16	3,922.87	3,681.81	

12	Actual Auxiliary Energy Cons	umption excluding colony	MU	228.43	219.55	231.63	244.12	232.57	
13	Actual Energy supplied to Colony from		MU	2.487	1.797	1.812	1.613	1.534	
	Actual energy supplied to construction ac		MU						
	Actual energy supplied to long term and n	nedium term beneficiaries	MU	3,846.72	3,620.70	3,660.57	3,645.54	3,467.25	
	Actual energy supplied in short term		MU	,		·	,	·	
	Energy supplied under bilateral arrangem	ents	MU						
	Energy supplied through excahnges		MU	3.02	-	-	4.60	0.98	
	Energy supplied under DSM	(AG-SG)	MU	25.84	26.21	7.79	41.93	9.77	
	Energy supplied SCED		MU			101.64	50.83	6.82	
14	Primary Fuel :								
14.1	Consumption :								
		From Linked Mines	MT	26,52,210	25,13,537	28,16,645	26,51,328	24,72,501	
14.1.1	Domestic coal	From Non-Linkd Mines	MT	NA	NA	NA	NA	NA	
		From Integerated Mines	MT	NA	NA	NA	NA	NA	
14.1.2	Imported coal		MT	NA	NA	NA	NA	NA	
14.1.3	Spot market/e-auction coal		MT						
14.2	Gross Calorific Value (GCV):								
4404	Damastic Cool (for each time)	(As Billed) - EM Basis as per third party	kCal/kg	4,552.27	4,594.40	4,570.19	4,332.72	4,352.68	
14.2.1	Domestic Coal (for each type)	(As Received) - TM Basis as per third	kCal/kg	3,638.55	3,625.23	3,502.63	3,584.92	3,573.11	
14 2 2	Imported Cool	(As Billed) - ADB Basis	kCal/kg	NA	NA	NA	NA	NA	
14.2.2	Imported Coal	(As Received) - ADB Basis	kCal/kg	NA	NA	NA	NA	NA	
1400	Cnet market/a queti	(As Billed)	kCal/kg	NA	NA	NA	NA	NA	
14.2.3	Spot market/e- auction coal	(As Received)	kCal/kg	NA	NA	NA	NA	NA	
4404	Weighted Average Gross Calorific	value (Domestic+Imported+Spot/e-							
14.2.4	auction) (As Billed) Weighted Average Gross Calorific	c value (Domestic+Imported+Spot/e-	kCal/kg	4,552.27	4,594.40	4,570.19	4,332.72	4,352.68	
14.2.5	auction) (As Received)	; value (Domestic+Imported+Spot/e-	kCal/kg	3,638.55	3,625.23	3,502.63	3,584.92	3,573.11	
	Ash content in coal (%)		%	32.63	33.34	35.75	34.90	33.92	
14.3	Price of coal :								
	Billed Cost (including adjustments)								
	Amount Charged by transporting agency	upto delivery point							
14.3.1	Weighted Average Landed price of Dome	estic coal	(Rs/MT)	2,089	2,126	2,211	2,163	2,105	
	Components of landed cost and break up								
		1. Cost of coal,	(Rs/MT)	2,031	2,072	2,117	2,068	2,018	
		2. Transportation	(Rs/MT)	41	42	70	68	57	
		3. Other charges	(Rs/MT)	17	12	23	27	30	
14.3.2	Weighted Average Landed Price of Impo		(Rs/MT)	NA	NA	NA	NA	NA	
	Components of landed cost and break up								
14.3.3	Weighted Average Landed Price of Spot		(Rs/MT)	NA	NA	NA	NA	NA	
	Components of landed cost and break up								
14.3.4	Weighted Average Landed Price of all the	e Coals	(Rs/MT)	2,089	2,126	2,211	2,163	2,105	
			% and MT (of the total						
14.4	Blending :		coal				l		
			consumed)				l		
			Equivalent to						
	Blending ratio of imported coal with dome	estic coal	domestic coal	0	0	0	0	0	
14.4.2	Proportion of e-auction coal in the blendir	na	% & MT	0	0	0	0	0	
17.7.4	Coal stockyard capacity	·9	LMT	U	U _I	12.76	υį	0	For the Station (4760 MW)
	· ' '		LMT	11.76	17.42	8.44	10.50	7.76	For the Station (4760 MW)
14.5	Actual daily Average Coal stock maintain	ed	Days	17.55	26.00	12.60	15.67	11.58	For the Station (4760 MW)
14.5	Actual Transit & Handling Losses for coal	/l ignite	Days	17.00	20.00	12.00	10.07	11.30	For the Station (4760 MW)
	Pit- Head Station	, <u></u> g	 				-		For the Station (4760 MW)
	Transit loss from linked mines		%	0.20	0.20	0.23	0.23	0.29	For the Station (4760 MW)
	Transit loss from non-linked mines includi	ng e-auction coal mines	%	0.20	0.20	-	-	-	For the Station (4760 MW)
	Transit loss of imported coal		%		1	-	-		For the Station (4760 MW)
	Non-Pit Head station		70	NA	NA	NA	NA.	NA.	For the Station (4760 MW)
	Transit loss from linked mines		%	NA NA	NA NA	NA NA	NA NA	NA NA	For the Station (4760 MW)
14.5.2.1	Transit loss from non-linked mines includi	ng e-auction coal mines	%	NA NA	NA NA	NA NA	NA NA	NA NA	For the Station (4760 MW)
14.5.2.2	Transit loss of imported coal	%	NA NA	NA NA	NA NA	NA NA	NA NA	For the Station (4760 MW)	
15	Secondary Fuel Oil :	/0	INA	INA	INA	INA	INA	1 of the otation (4700 MW)	
		KL	_	-	_	_			
15.1	Consumption	HFO LDO	KL	281.00	1,181.00	298.00	808.00	591.00	
	Weighted Average Gross Calorific		(kCal / Lit.)	201.00	1,101.00	230.00	500.00	J8 1.00	
15.2	1	7 I II O	(NOal / Lit.)		-		-	-	

	value (As received)	LDO							
15.3		HFO	(kCal / Lit.) (Rs / KL)	9,469.20 29.981	9,457.25 40.203	9,458.45 39.855	9,590.49 43.342	9,038.21 54.468	
	Weighted Average Price	LDO	(Rs / KL)	47,802	54,337	50.674	53,512	73,802	
		HFO (ALL 5 STAGES)	(KS/KL) KL	4,845.06	3,462.40	4,840.21	4,531.07	3,041.10	For the Station (4760 MW)
15.4	Actual Average stock maintained	LDO (ALL 5 STAGES)	KL	2,230.97	2,196.71	2,533.03	2,263.77	2,753.61	For the Station (4760 MW)
16	Weighted average duration of outages		T.L	2,200.07	2,100.71	2,000.00	2,200.77	2,700.01	1 of the otation (47 co MVV)
	Planned Outages (for 2 units)	((Days)	_	24.61	- 1	14.58	33.03	
	Forced Outages (for 2 units)		(Days)	2.63	5.80	4.47	5.88	8.31	
	Within control of generator		(Days)	2.62	0.32	-	-	-	
	beyond control of generator		(Days)	0.00	5.47	4.47	5.88	8.31	
	Number of tripping	1	Nos.	1	3	1	1	0	
	Number of start-ups:		Nos.	1	7	2	5	5	
16.4.1	Cold Start-up		Nos.	1	1	1	3	1	
16.4.2	Warm Start-up		Nos.	0	4	0	1	3	
16.4.3	Hot start-up		Nos.	0	2	1	1	1	
17	NOx , SOx ,and other particulate matter e	emission in : at conditions specified by							
17.1	Design value of emission control equipme	ent (specify conditions)	mg/NM3		Ç	SOx: 200; NOx:	450		Norms as per MOEF&CC
	FGD installation date								
	NOX Control system installation date			NA	NA	NA	NA	NA	
		SPM	mg/Nm ³	•					
	Actual emission (Stage-I)	NOX	mg/Nm ³						
		SOX							
11.0		SPM	mg/Nm³			As per Annexure	e-A		
			mg/Nm ³						
	Actual emission (Stage-II)	NOX	mg/Nm ³						
		SOX	mg/Nm ³						
	Ash dyke capacity as on 31st March		LCM						For the Station (4760 MW)
	Ash pond capacity as on 31st March		Days						For the Station (4760 MW)
	Fund avalable in Ash Fund Account as on								For the Station (4760 MW)
	31st March					As per Annexure	e-B		, ,
	Amount utilized from Ash Fund Account	<u> </u>				1			For the Station (4760 MW)
	Detail of Ash utilization % of fly ash produ	ced	Qty Produced	24.60	32.12	31.24	37.68	53.05	For the Station (4760 MW)
	Ash available as on 31st March *		LMT	79.58	81.86	88.57	87.14	82.38	For the Station (4760 MW)
	Ash utilized for construction of ash dyke		LMT	3.99	16.53	19.93	12.71	11.18	For the Station (4760 MW)
	Ash utilized within plant premise, other than construction of ash dyke		LMT	0.15	0.24	0.29	0.40	0.36	For the Station (4760 MW)
	Ash transported		LMT	-	_	_	1.21	5.08	For the Station (4760 MW)
	Average Distance **		Km	-	_	_	150.00	150.00	For the Station (4760 MW)
	Conversion of value added product		(%)	9.05	4.54	3.76	4.30	5.28	For the Station (4760 MW)
	For making roads &embarkment		(%)	-	-	-	1.39	4.39	For the Station (4760 MW)
19.3	Land filling		(%)	0.19	0.29	3.80	15.38	14.19	For the Station (4760 MW)
	Used in plant site in one or other form or u	used in some other site	(%)	5.02	20.19	22.50	14.59	15.34	For the Station (4760 MW)
	Any other use , Please specify		Qty. and	10.34	7.10	1.17	2.02	13.84	For the Station (4760 MW)
	Cost of spares actually consumed		(Rs. Lakh)	11,419.42	12,008.00	8,528.26	12,433.16	21,345.27	For the Station (4760 MW)
	Average stock of spares		(Rs. Lakhs)	27,679.50	30,046.02	36,748.43	39,369.44	40,122.89	For the Station (4760 MW)
22	Number of employees deployed	in O&M	Nos.	1,309	1,151	1,069	1,029	963	For the Station (4760 MW)
22.1	- Executives		Nos.	712	625	606	604	568	For the Station (4760 MW)
22.2	- Non Executives		Nos.	597	526	463	425	395	For the Station (4760 MW)
22.3	- Corporate office		Nos.	2,568	2,241	2,016	1,815	1,728	For the Station (4760 MW)
23	Man-MW ratio		Man/MW	0.28	0.24	0.22	0.22	0.20	For the Station (4760 MW)
24	Total billed amount								
24	Total received amount within due date								
24	Total amount received beyond due date								
24	Total amount pending					As per Annexure	e C		
24	Total amount under dispute								
24	Total rebate given	· · · · · · · · · · · · · · · · · · ·							
24	Total LPSC recovered								
24	Generation Switchyard Details			each), Satna-1 km	,2 (262km each each) , 132 KV	Jabalpur-1,2 (36 h), Rewa- 206kn V Lines = Waidh g line-1,2,3,4 (28	n, Sasan- 20km an-1,2 (10 Km e	Satna-3,4 -(254 each)	For the Station (4760 MW)

24	No. of Bays voltagewise	400 kv bays : stage-1 & 2 = 26 bays, stage-3 =11 bays, stage-4 = 17 bays, stage-5 = 12 bays 132 kv bays : stage-1 & 2 = 14 bays, stage-3 =6 bays	For the Station (4760 MW)
24	ICT - nos and rating	Stage-1 & 2 =2 ICTs, stage-3 =1 ICT (All ICTs 400 kv /132 kv)	For the Station (4760 MW)
24	Dedicated transmission line - voltage and length	Not Applicable	For the Station (4760 MW)
	·	<u> </u>	

^{*} Total ash generated during the Financial Year given
** Weighted average distance of Ash Transported given

Annexure-V (C)

Name of the Company: NTPC LTD.
CoD of Units/Stations 1.02.1992

Name of the Power Station: Vindhyachal STPS Stage-I

1 Allowance and Special Allowance during the Period 2009-10 to 2021-22

FY Year Add-cap Compensatory Special Effective Effective Details of Asset/Work wise Capitalisation based on the Expenditure allowed by the Commission in Total Capitalisati Difference Capital Total Total Variation if any to Expenditure Addition Addition allowed by the Special the tariff period 2009-14 allowance allowance Compensatory on done of Allowed Spares be reconciled allowed by the allowed by the /instified Commission allowance available allowance done under which has during during the Expenditu under the Capitalisation out of Capitalisation out of Capitalisation out of Special Allowance allowed in the Special and not been the year year as per provision of add cap allowed under Compensation stations where applicable ompensation claimed/ duly audited Regulation 9(2) Regulation 9(2) allowance in the Schedule of Allowance allowed in Fixed Asset stations wherever the tariff (%) Asset/work Rs(Lakh) Asset/work Rs(Lakh) Asset/work (Rs. lakh) Gross (Rs. Lakhs) 8 = 5 * 6 7 = 4* 6 12=10+11 13 14=(2+3+7 15 16=9+12 17 18 11 +13+15 8)-Asset/work (Rs.lakh) Asset/work (Rs.lakh) Asset/work (Rs.lakh) Acoustic 72.89, Decap Spares: (eak Ash Handling)218.07,ALDS decap(1.41 1022.81 2009-10 220.93 567 Nil 33.99 374.28 312.00 330.52 0 43.76 471.36 558.30 Detection)46.33, (-)0.09 ERV:(-System System)132.17 Works ERV AAQMS 121.38 MBOA 2.40 DDCMIS 61.68 COLTS nline 23.34 unker Total 220.93 330.52 558.29 cap of MBOA: (-33.22 420.73 2010-11 4.42 630 Nil COLTS 955.20 983.65 -562.93 718.78 1706.86 1477.06 Energy 25.74 Managemen MBOA otal 4.42 Total 983.65 Total 2011-12 Nil 32,445 510.72 479.61 404.14 0 PLCC 30.36 31.11 0.00 373.03 353.26 Suply of 0.54 0.20 Monitoring Total Total Ash handling)388.78 Decap of GT: (-2012-13 1074.91 Nil 32.445 553.28 1074.91 135.46 417.82 2133.36)173.03. Decap of 40.58332 nanufacturing 1.22875 Total Ash handling 2013-14 291.71 33.99 540.62 1015.72 System RIHAND CC: (-)503.21,Cap spares 194.61 1179.27 SUBMERGEN 117.95 -638.65 926.01 2396.99 3381.84 (notPart of CC)-(-)4.1, IUT-(-)19 45 5 km CE LAND apitalisation Plant & Total 291.71 Total 1179.27 2014-15 139.1 840 3150 663.93 2489.74 139.1 20.96 Bio diesel Plant 133.38 236.23 1673.30 Ash Dyke work Ash related works 1427.07 0.00 1726.61 3239.47 2724.20 lakhs has been claimed as 1018.49 MBOA 236.23 3380.31 **Fotal** 139.1 Total 1190.84 Total 2015-16 3952.58 1720.69

Rs. Lakh

	_	_					_						_	_	_				
									Inert Gas fire extinguisher	4.9	3 Hardware & Software for ABT	153.75							
									extinguisher		CEMS	336,57							
											Other R&M	316.48							
									Total	913.89	Total	806.79		1570.37			2627.34		
2016-17	41.33	210	8906	21.34	165.18	7005.32	Ash Dyke works	s 41.3	3 MBOAS	9.09	R&M related	5351.92	5379.01	0.00	1832.82	791.7	6212.04	5921.65	Spares Decap: (-) 62.93. Other Decap:(-
									CEMS	10.64									
									Transformer	0.08524									
									Miscellaneous	7.39									
							Total	41.33	Total	27.09	Total	5351.92							
2017-18	54.68	0	11366.96	21.34	0	8941.07	Ash Dyke works	54.68			GT	26.63	495.47	417.73	8027.87	1731.73	2281.88	1804.08	Spares Decap: (-) 208. Other Decap:(-
											HMI System	140.76							
											Service Bldg	63.5							
											Ash slurry pump house	264.58							
							Total	54.68	Total	0	Total	495.47							
2018-19	8.89	0	12088.76	21.55		9483.75	Ash Dyke works	8.89			HMI System	133.08	200.88	0	9282.87	3695.89	3905.66	-837.81	Spares Decap: (-)291.64. Other
											R&M related	67.8							
							Total	8.89	Total	0	Total	200.88							
2019-20	177	0	11970	17.472	0	9878.60					Replacement of MS Pipes by 400 NB Cast Basalt Pipe	1830.74	2671.15	448.10	6936.36	3975.60	7094.85	6499.52	Spares Decap: (-) 177.64, Other
											Upgradation of GRP Panel	286.93							
											Upgradation of Servers	149.77							
											Replacement of MOCB with VCB in CHP	115.3							
											Repl of ILMS for CHP St-1	23.18							
											R&M of SWAS system	265.23							
											Total	2671.15							
2020-21	5506.36	0	11970	17.472	0	9878.60	Ash Dyke	5506.36			R&M related	1213	1517.78	151.12	8209.70	5356.24	12531.5	10132.09	Decap spares (-
											Forklift truck and Dozer assembly	304.78	1						
				1									1						
				1									1		l	l			
							Total	5506.36			Total	1517.78	1						
		1		1									İ						
2021-22	2362	0	11970	17.472	0	9878.60		1		1									

Name of Generating Station : Vindhyachal STPS Stage-II (1000 MW)

Stage: II COD of Units/Station: 01.10.2000

Details of e		curred from Compe	nsation Allowanc	e and Special A	llowance during	Tariff Period	2009-14												
FY Year	the	Compensatory allowance allowed by the	allowed by the	Income tax rate	Effective Compensatory allowance	Effective Special allowance		(k wise Capitalisation b Commission in the tariff	period 2009-1	4		done under	Capitalisation done which has not been claimed/	Difference of Allowed vs Expenditure	Capital Spares	during the	during the year as per duly	Variation if any to be reconciled /justified.
	Commission under the provision of Regulation	Commission, if any	Commission, if any				Capitalisation cap allowe Regulation	d under	Capitalisation out of allowance in the stati applicab	ions wherever	Capitalisat Special Al allowed in the where ap	lowance ne stations	Special and Compensati on Allowance	allowed in the tariff			year	audited Schedule of Fixed Asset	
				(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)- Gross	Asset/work	(Rs. lakh)	(Rs. Lakhs)						
1	2	4	5	6	7 = 4* 6	8 = 5 * 6	9	•	10		11		12=10+11	13	14=(2+3+7+8)- (9+12+13)	15	16=9+12+13+ 15	17	18
2009-10	828.5	Nil	Nil	33.99	Nil	Nil	Transport Air Compressor Arbitration	496.65 331.85					0	0	0	98.21	926.71	-5787.22	Decap of MBOA: (-) 32.71, ERV:(-)3680.56, Reversal of liabilities:(-) 2872.71; Rs. 63.97
							Award** Total	828.50		0.00	Total	0.00							Lacs towards interest (P&L)
2010-11	0	Nil	Nil	33.218									0	0	0	50.93	50.93	577.19	Decap of MBOA: (-) 1.65, ERV: 527.93
			<u> </u>				Total	0	Total	0	Total	0]		ERV: 321.93
2011-12	438.12	150	Nil	32.445	101.3325		Ash dyke raising	438.12					0	0	101.33	285.65	723.77	3858.43	Decap of MBOA: (-)9.2, ERVs 3143.87
							Total	438.12	Total	0	Total	0							
							Ash dyke raising	24.28	MBOA Items	64.51									Decap of spares: (-) 60.71
2012-13	328.64	150	Nil	32.445	101.3325		Clorine Absorption Work FERV	16.8 287.56	DVR	0.00			64.51	0	36.82	689.93	795.52	2053.09	Decap of T&P: (-)24.80, Decap of MBOA: (-)0.27, All ERVs-
							Total	328.64		64.51									1055.82
							Ash dyke raising	885.14	EMS	82.69									
							Work FERV	201.29		80.81									
2013-14	1086.43	150	Nil	33.99	99.015				Upgradation of PLC Sys of CHP	96.23			367.43	0	-268.415	706.78	2160.64	1794.56	Decap of spares- Part of CC: (-) 329.64, Reversal of Liability: -
									Elevators at TP-13 and TP-15 of CHP Power Cable reeling	48.72									520.97 ; FERV:484.52
							Total	1086.43	Drum (PCRD)	58.98 367.43	Total								
	l	1	J	l .	1	l .	ı otai	1080.43	1 Otal	307.43	1 otai						I	I	

Details of e	xpenditure inc	curred from Compe	nsation Allowanc	e and Special A	llowance during	Tariff Period 2	2014-17												
FY Year	Add-cap allowed by the	Compensatory allowance allowed by the	Special allowance allowed by the	Income tax rate	Effective Compensatory allowance	Effective Special allowance	Details of		k wise Capitalisation Commission in the tari			wed by the	Total Expenditure done under	Capitalisation done which has not been claimed/	Difference of Allowed vs Expenditure	Capital Spares	Total Addition during the		Variation if any to be reconciled /justified.
	Commission under the provision of Regulation 14(3)/26(2)	Commission, if	Commission, if any		available for Expenditure	available for Expenditure	Capitalisation cap allowed Regulation	l under	Capitalisation out of allowance in the sta applica	tions wherever	Capitalisat Special Al allowed in the where ap	lowance ne stations	done under	allowed in the tariff	Expenditure		year	audited Schedule of Fixed Asset	
				(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)- Gross	Asset/work	(Rs. lakh)	(Rs. Lakhs)	Excluding items in columns(7,8 &9)					
1	2	4	5	6	7 = 4* 6	8 = 5 * 6	9		10		11		12=10+11	13	14=(+7+8)- (9+12+13)	15	16=9+12+13+ 15	17	18
2014-15	1287.39	200		20.96	158.08		Ash dyke raising Inert Gas Fire Ext.* Contractors; ERV*	979.9 249.41 58.08 1287.39		7.15			7.15	0.00	150.93	958.48	2253.02	1641.37	Decap of spares- (-)601.91, ERV:-15.07; IUT: -0.59; Liability Reversal: -117.8
2015-16	1251.59	200		21.34	157.32		Ash dyke raising Contractors; ERV*	1247.21		70			0.00	1110.11	-952.79	609.20	2970.90	2444.17	Decap of spares: (-) 301.98; liability reversal -224.75
							Total	1251.59	Total	0									
2016-17	1223.9	500		21.34	393.29		Ash dyke raising	1223.9	мвоа	112.6		0	112.60	6576.15	-6182.86	903.15	8815.80	7431.21	Dec. Spares: -1249; Mis. Works: 29.65; FERV: -1.38 Other Decap295.65
							Total	1223.9		112.6									
2017-18	-0.12	500		21.34	393.29		works ERV Total	-0.12	Buildings	6.44		0	6.44	3088.35	-2695.06	1154.18	4248.85	3405.74	Dec. Spares: -667.4; Other Decap175.71
2018-19	0	500		21.34	393.29		Total	0		0		0	0.00	3888.79	-3495.50	1021.15	4909.94	4062.17	Dec. Spares: -802.67; FERV 38.08
2019-20	809	0	0		0.00		Ash Dyke Total	809						451.52	-451.52	707.07	1967.59	1605.39	Dec spares: -512.83; Loan FERV: 150.24
2020-21	327.07	0	0		0.00		Ash Dyke	327.07					0.00	558.19	-558.19	3323.95	4209.21	2601.45	Dec spares: -1442.53; Loan FERV: 98.29;
2020-21	327.07				0.00		Total	327.07					0.00	330.17	-550.17	3323.75	4207.21	2001.45	Other de-cap: -187.34; IUT:-76.21

Note: Expenditure of MBOA and other items is met from Compensation Allowance , accordingly indicated

Name of Generating Station : Vindhyachal Stage-III (1000 MW) Stage: III COD of Units/Station : 15.07.2007

Y Year	Add-cap allowed by the Commission	From Compensation Compensatory allowance allowed by the	Special allowance allowed by the	Income tax rate	Effective Compensatory allowance	Effective Special allowance	Details of Asset/Work wise Capita		14		nmission in the tariff p	eriod 2009-	Capitalisat ion done which has	Capitalisation done which has not been	Difference of Allowed vs Expenditure	Capital Spares		Total Addition during the year as per duly	Variation if any to /justific	
	under the provision of Regulation 9(2)	Commission, if any	Commission, if any		available for Expenditure	available for Expenditure	Capitalisation out of add cap all Regulation 9(2)	lowed under	Capitalisatio Compensation all stations whereve	owance in the	Capitalisation out of Allowance allowed in where applica	the stations	not been claimed/ allowed in the tariff	claimed/ allowed in the tariff				audited Schedule of Fixed Asset		
				(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)- Gross	Asset/work	(Rs. lakh)							Asset/work	(Rs. lak
1	2	4	5	6	7 = 4* 6	8 = 5 * 6	9	l	10	ı	11		12=10+11	13	14=(2+7+8)- (9+12+13)	15	16=9+12+13+15	17	18	
							CIVIL WORKS OF ASH DYKE FOR LAGOON V-3	4.83							(7+12+13)				Inter Unit Transfe	ers -1
							work adjustment	259.01											Loan FEF	
							AUGMENTATION OF RAILWAY SLIDING & MGR SYSTEM	2559.16											Reversal of liabil	lity .
							Capital Spares	1059.35											Decapitalisation of MBC	
2009-10	3258.85	0.00	0.00	33.99	0.00	0.00	Decapitalisation of spares	-249.17						593.05	-998.33	739.73	4996.91	16.28	ne	ills
2009-10	3238.83	0.00	0.00	33.99	0.00	0.00	SUPPLY &INST OF NEW LIFT FOR ADMN BLDG	15.62						393.03	-998.33	/39./3	4990.91	10.28		
							COMMISSIONING OF AC IN ADM BUILDING AT NTPC.	3.54												
							Digital audio conference system for the													
							conference hall of Admn. Bldg Total	11.80 3664.13	Total	0.00	Total	0.00	0.00						Tot	tal -
												•		,			,			
							work adjustment	14.31											I/U Transi Decapitalisation of MB0	
							Supply and installation of CCTV system	76.53											ite	ems
2010-11	3250.55	0.00	0.00	33.22	0.00	0.00	Locomotive Equipment for Cable TV	2952.06						50.52	137.52	358.08	3471.11	2909.86	Loan FEF	RV
							System(Supply)	9.03											Reversal of liabil	ity
							Cable laying for revamping of cable TV network	10.59												
							Total	3062.51	Total	0.00	Total	0.00	0.00						To	tal
							Work adjustment	2.47											Decapitalisation of MBO	0.4
										0										
							Supply and installation of CCTV system ED cess	0.73 145.70		0									Loan FEF Reversal of liabil	
2011 12	453.03	0.00	0.00	32.45	0.00	0.00	Equipment for Cable TV			0				22.55	-22.55	177.29	754.72	4471.60	Reversal of flatin	iity
2011-12	455.05	0.00	0.00	32.43	0.00	0.00	System(Supply) Cable laying for revamping of cable TV	0.10		0				22.33	-22.33	177.29	134.12	44/1.00		
							network	1.19		0										
							Fire fighting system Total	404.70 554.88	Total	0.00	Total	0.00	0.00						To	tal
							Total	334.00	Total	0.00	Total	0.00	0.00						10	tai .
							Supply of 50 MVAR shunt reactor with												Inter unit Transf	fer
							NGR SAP (ERP -SOFTWIRE)	448.15 -5.98											Decapitalisation	of
2012-13	441.68	0	0	32.445	0	0	Construction of Parking Shed near Service Building	-0.49						456.88	-456.88	284.37	1182.93	2765.01	Decapitalisation	
							Service Building	-0.49											Spar Loan FEF	
																			Reversal of Liabil	
					1		Total	441.68	Total	0.00	Total	0.00	0.00						To	tal
							Ash Dyke raising and CIVIL WORKS												Decapitalisation	
2013-14	516.04	0.00	0.00	33.99	0.00	0.00	OF ASH DYKE FOR LAGOON V-3 ROAD NORTH WEST TOWNSHIP	602.59 -39.92				-	1	27.41	-27.41	862.43	1452.51	4615.22	capital Spar Loan FEF	
2313-14	510.01	0.00	0.00	55.77	0.00	0.00		0					1	27.11	27	002.13	1.02.01	1013.22	Reversal of Liabil	lity
							Total	562.67	Total	0.00	Total	0.00	0.00						Tot	tal 3

Details of exp	enditure incurred	from Compensation	n Allowance and	Special Allowa	nce during Tar	iff Period 2014-1	17													
FY Year	Add-cap allowed by the Commission under the provision of Regulation 14(3)	Compensatory allowance allowed by the Commission, if any	Special allowance allowed by the Commission, if any	Income tax rate	Effective Compensatory allowance available for Expenditure	Effective	Capitalisation out of add cap allowed under experiments of the capital out of add cap allowed under response to the capital out of the capital out of add cap allowed under response to the cap allowed under r		the Expenditure allowed by the Com Capitalisation out of Compensation allowance in the stations wherever applicable		mmission in the tariff Capitalisation out Allowance allowed in where applic	ion out of Special owed in the stations e applicable		Capitalisation done which has not been claimed/ allowed in the tariff	Difference of Allowed vs Expenditure	Capital Spares	Total Addition during the year		Variation if any to be /justified.	
				(%)			Asset/work	Rs(Lakh)	Asset/work	Rs(Lakh)- Gross	Asset/work	(Rs. lakh)								
1	2	4	5	6	7 = 4* 6	8 = 5 * 6	9		10	Gross	11		12=10+11	13	14=(2+3+7+8)- (9+12+13)	15	16=9+12+13+15	17	18	
							Ash Dyke	578.28											Loan FERV	1505.
							Wagon Tippler	8562.69				-							Inter Unit Transfer Decapitalisation of	-844.
2014-15	9130.95	0	0	20.9605	0	0	SG Area Civil works	-10.02					0.00	93.17	-93.17	582.08	9806.21	9175.73	Spares Decapitalisation of	-1181 -0
							Total	9130.95	Total	0.00	Tota	0.00)						Total	-521
							Ash Dyke	7.09												
							Wagon Tippler	2582.17											Loan FERV Decapitalisation of	3218.
2015-16	2589.26	0.00	0.00	21.34	0.00	0.00	wagon rappier						0.00	15.09	-15.09	512.16	3116.51	5930.09	Spares	-365
																			Decapitalisation of MBOA	-38
							Total		Total	0.00	Tota	0.00)						Total	2813.
2016-17	1208.68	0	0		0	0	Ash Dyke Wagon Tippler	708 500.68					0	1575.94	-1575.94	632.79	3417.41	3118.62	De-cap of spares De-cap of MBOA	
							Total	1208.68												-0.5 -276.4
							Ash Dyke	794.53								1			arrear water charges	2535.99
							Wagon Tippler	170.51											Decap of spares	-496.06 -26.1
2017-18	965.04	100	0	21.342	78.658	0	Total	965.04					0	106.66	-106.66	2483.13	3554.83	5564.34		-4.32
																			Total	2009.51
	I	1	T	ı	1	1	Ash Dyke	19.1	1		ı	1	1	1		ı	1	1	De-cap of spares	-921.7
2018-19	238.8	200	0	21.549	156.902	0	Wagon Tippler	80.6 139.1					0	2	-3	1108.5	1350.3	311.9	Liab reversal	-116.7
2018-19	238.8	200	0	21.349	130.902	U	Other claims						0	3	-3	1108.3	1330.3			
							Total	238.8											Total	-1038.4
							Ash Dyke works	663.21											De-cap of spares	-315.99
2019-20	663.21	0	0		0	0	Total	663.21					0	229.81	-229.81	546.85	1439.87	1031.92	Adjustment Total	-91.95 - 407.94
	l	1	ı	1	1	1	l	l	ı		l	1	1	ı		1	1	ı]	
							Ash Dyke works cost adjustment	578.08 -24.9					-	***	***		****			-877.51 -49.56
2020-21	553.18	0	0		0	0	,						0	249.8	-249.8	1453.72	2256.7	1288.52		
	<u> </u>		1	<u> </u>	1	1	Total	553.18				1	1						Total	-927.07

Annexure-VI (C)

DETAILS OF WATER CHARGES

Name of the Company: NTPC Limited

Name of the Power Station and Stage/Phase: Vindhyachal STPS (4760 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		Vindhyac	hal Super Thermal Po	ower Station	
1	Type of Plant			Coal Based Plant	•	
2	Type of Cooling Tower		Ir	nduced draft cooling t	ower	
3	Type of Cooling Water System			Closed cycle		
4	Any Special Features which may increase/reduce water					
	consumption					
(B)	Quantum of Water : (Cubic Meter)		For	whole station (All 5 s	stages)	
5	Contracted Quantum	14,91,30,000	14,91,30,000	14,91,30,000	14,91,30,000	14,91,30,000
6	Allocation of Water	14,91,30,000	14,91,30,000	14,91,30,000	14,91,30,000	14,91,30,000
7	Actual water Consumption	12,59,88,396	13,26,84,427	11,20,13,558	10,85,69,786	10,64,97,431
8.	Rate of Water Charges	5.5	5.5	5.5	5.5	6.6
9	Other charges/Fees , if paid as part of Water Charges					
10	Total water Charges Paid	32,937.21	7,724.26	7,402.16	7,381.94	8,902.45

Annexure-VI (D)

Detais of capital Spares

Name of Company : NTPC Limited

Name of Power station : Vindhyachal STPS

(Rs. In Lakhs)

SI . No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
(A)	Details of capital spares in Opening stock	39,256.96	48,650.63	57,117.15	64,600.51	72,545.27
(B)	Details of capital spares procured during the year	11,419.42	12,008.00	8,528.26	12,433.16	21,345.27
(C)	Details of capital spares consumed during the year	2,025.75	3,541.48	1,044.91	4,488.41	4,661.37
(D)	Details of capital spares closing at the end of the year	48,650.63	57,117.15	64,600.51	72,545.27	89,229.17

Name of Utility:	NTPC LTD
	Vindhyachal STPS St-I
Station Configuration:	6X210 MW=1260 MW
Capacity (MW):	1260
COD:	01.02.1992

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
Plant Availability Factor (PAF)	%	91.67	92.85	91.18	91.85	92.33	96.47	96.15	91.27	93.97	94.00	86.80	91.88	93.80	91.81	90.70	86.93	90.73	91.62
2 Plant Load Factors (PLF)	%	91.78	92.68	91.57	92.34	92.47	96.59	94.16	90.50	90.61	85.99	77.65	76.74	72.37	88.40	87.89	83.86	88.14	88.64
2a Loading Factor ^	%														93.62	92.99	90.36	94.50	94.72
3 Scheduled Energy	MU	9,081.85	9,195.62	9,114.14	9,225.60	9,273.10	9,665.55	9,376.12	9,004.68	9,054.53	8,549.92	7,602.41	7,471.37	6,987.85	8,732.35	8,676.02	8,297.52	8,719.86	8,742.89
4 Scheduled Generation 5 Actual Generation (Gross)	MU MU	9,081.85	9,195.62	9,114.14	9,225.60	9,273.10	9,665.55	9,376.12	9,004.68	9,054.53	8,549.92	7,602.41	7,471.37	6,987.85	8,732.35 9,757.66	8,676.02 9,700.68	8,297.52 9,281.55	8,719.86 9,728.74	8,742.89 9,783.63
6 Actual Generation (Gross)	MU														8,916.99	8,858.69	8,473.43	8,867.30	8,916.82
Actual energy supplied to beneficiaries (Long Term, Medium Term and Short Term)	MU	9,250.77	9,337.24	9,168.14	9,289.50	9,326.70	9,711.76	9,453.33	9,075.26	9,082.01	8,573.19	7,536.43	7,402.35	6,861.67	8,598.13	8,660.71	7,966.39	8,616.16	8,773.94
Quantum of coal consumption Value of coal	MT Rs. Lakh	62,25,644	65,91,851	66,79,739	68,96,583	70,99,831	72,81,581	72,02,872	72,97,128	73,74,376	66,77,480	60,94,266	59,83,101	55,36,717	65,45,876	65,61,150	66,24,918	66,87,193	67,67,722
10 Specific Coal Consumption	kg/kWh	0.61	0.64	0.66	0.67	0.70	0.68	0.69	0.73	0.74	0.70	0.71	0.70	0.69	0.67	0.68	0.71	0.69	0.69
11 Gross Calorific Value of Coal	(Kcal/ Kg)	3,987	3,763	3,674	3,598	3,504	3,539	3,510	3,405	3,264	3,412	3,376	3,418	3,566	3,640	3,637	3414**	3504**	3510**
12 Heat Contribution of Coal	(Kcal/ kWh)	2,450	2,425	2,428	2,428	2,437	2,417	2,433	2,408	2,407	2,400	2,401	2,408	2,472	2,442	2,460	2,437	2,409	2,428
Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)																		
14 Quantum of Oil Consumption	(KL)	1,619.66	1,507.28	1,633.99	1,891.26	2,790.78	2,660.08	1,600.58	2,267.93	2,488.84	2,418.29	3,211.82	2,872.71	5,805.00	1,791.00	2,020.00	2,775.00	2,659.00	2,878.00
15 Value of Oil	(Rs. lakh)																		
16 Gross calorific value of oil	(kcal/lit)	9,730.00	9,731.00	9,735.00	8,164.55	9,527.74	9,729.00	9,729.00	9,767.00	9,714.29	9,714.62	9,711.27	9,730.17	9,788.50	9,828.19	9,834.29	9,834.97	9,846.26	9,871.32
17 Specific Oil Consumption Cost Of Specific Oil Consumption –	(ml/kWh) (Rs./kWh)	0.16	0.15	0.16	0.19	0.27	0.25	0.15	0.23	0.25	0.25	0.37	0.34	0.73	0.18	0.21	0.30	0.27	0.29
Finally admitted by CERC																			
19 Heat Contribution of Oil 20 Station Heat Rate	(Kcal/ kWh)	1.56	1.43	1.57	1.51	2.61	2.43	1.50	2.21	2.42	2.48	3.64	3.29	7.11	1.80 2,444	2.05 2,462	2.94 2,440	2.69 2,411	2.90 2,431
20 Station Heat Rate 21 Auxiliary Energy Consumption	(Kcal/ kWh) (%)	2,452 7.61	2,426 7.54	2,430 7.60	2,429 7.60	2,440 7.46	2,420 7.50	2,434 7.77	2,497 7.72	2,409 7.84	2,403 8.10	2,404 8.26	2,411 8.83	2,479 9.15	8.56	8.64	2,440	8.81	2,431 8.81
22 Debt at the end of the year	(Rs. Crore)	45.63	40.72	45.86	50.54	45.26	41.02	37.35	33.60	36.30	31.69	26.13	20.05	18.05	18.37	18.31	18.12	36.87	51.08
23 Equity - Average	(Rs. Crore)	730.08	730.70	732.46	735.18	763.89	735.83	735.44			736.88	736.50	736.70	736.33	734.78	732.76	440.41	444.90	451.68
24 Working Capital – finally admitted by															577.84	588.76	538.35	544.52	550.80
CERC CERC	(Rs. Crore)	271.02	274.01	277.40	281.58	284.82	481.27	486.98	494.12	500.27	508.27	546.86	555.73	559.90					
25 0000	(Rs. Crore)	1,460.58	1,462.65	1,468.52	1,477.57	1,483.27	1,480.03	1,478.72	1,477.17	1,481.00	1,483.53	1,482.29	1,482.91	1,481.69	1,476.50	1,469.80	1,468.05	1,483.01	1,508.90
Fixed Cost (AFC)	(Rs. Crore)	315.87	320.72	326.88	334.07	340.86	494.17	506.16	519.94	537.25	558.95	597.81	633.72	676.49	719.22	751.63	716.81	729.78	745.70
(a) Return on equity – post tax (admitted by CERC upto 2009) and																			
Pre Tax post 2009 28 Absolute value	(Rs. Crore)	102.21	102.30	102.54	102.92	103.16	172.78	170.70	168.63	168.90	173.03	144.43	145.17	145.09	144.79	144.78	82.72	83.56	84.93
29 Rate	(%)	14.00	14.00	14.00	14.00	14.00	23.48	23.21			23.48	19.61	19.71	19.71	19.71	19.76	18.78	18.78	18.78
30 (b) interest on Loan	(10)	11.00	11.00	11.00	11.00	11.00	20.10	20.21	22.01	22.01	20.10	10.01	10.71	10.71	10.71	10.70	10.70	10.70	10.10
31 Absolute value	(Rs. Crore)	3.43	2.53	2.47	2.85	2.95	2.42	1.97	1.72	1.69	2.20	2.66	2.04	1.64	1.49	1.51	1.51	2.28	3.65
32 Rate – Weighted Average Rate	(%)	7.33	5.85	5.70	5.92	6.16	5.74	5.03	4.85		6.47	9.19	8.84	8.59	8.19	8.21	8.30	8.30	8.30
33 (c) Depreciation (finally allowed by CERC)																			
34 Absolute value 35 AAD	(Rs. Crore)	51.41	51.48	51.69	52.01	52.21	3.69	3.79	3.83	4.84	5.42	6.54	6.55	2.62	0.10	0.12	1.43	0.96	2.33
35 AAD 36 Rate	(%)	3.52	3.52	3.52	3.52	3.52							Spread	over balance life					
37 (d) Interest on working Capital																			
38 Absolute value 39 Rate	(Rs. Crore)	27.78	28.09	28.43	28.86	29.19	58.96	59.66	60.53		62.26	73.83 13.50	75.02 13.50	75.59 13.50	78.00 13.50	79.48 13.50	64.87 12.05	61.26 11.25	57.83 10.50
(e) Operation and maintenance cost 40 (finally admitted by	(%)	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	13.30	13.30	12.05	11.25	10.50
CERC) 41 Absolute value	(Rs. Crore)	131.04	136.33	141.75	147.42	153.34	229.32	242.42	256.28	271.03	286.52	330.45	348.40	360.37	381.16	404.85	446.58	462.02	477.26
42 Rate	(%)	131.04	136.33	141./5	147.42	153.34											440.56		411.20
43 (f) Compensation Allowances	(Rs. Crore)	-	-	-	-	-	5.67	6.30	7.56	8.19	8.19	8.40	6.30	2.10	442.67	120.00	119.70	119.70	110.70
44 (g) Special Allowance h) Supplementary Tariff - Emission	(Rs. Crore)					N.						31.50	50.25	89.07	113.67	120.89			119.70
Control 46 Absolute value	(Rs. Crore)	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	NA NA							
48 i) Ash Utilisation Expenses *	(Rs. Crore)	147		. 473	.47		147	IN.	IVA	NA.	.473						140	20.71	58.73
49 AFC	(Rs./ kWh)	0.39	0.40	0.41	0.42	0.42	0.58	0.59	0.61	0.63	0.65	0.69	0.73	0.80	0.84	0.88	0.84	0.85	0.87
50 Energy Charge	(Rs./kWh)	0.79	0.87	0.97	1.02	1.22	1.22	1.51				1.66	1.61	1.80	1.55	1.59	1.77	1.66	1.62
51 Supplemental Energy Charges - Emission Control	(Rs./kWh)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52 Total tariff	(Rs. kWh)	1.18	1.27	1.38	1.44	1.64	1.80	2.10	2.25	2.11	2.25	2.37	2.35	2.58	2.39	2.47	2.61	2.51	2.49
53 Revenue realisation before tax	(Rs. Crore)																		
54 Revenue realisation after tax	(Rs. Crore)																		
55 Profit/ loss *	(Rs. Crore)	477.09	414.75	611.22	891.07	949.03	1,107.48	1,308.06	821.60	1,177.96	1,297.45	1,023.52	1,374.66	1,451.98	1,432.18	1,640.02	1,690.03	1,473.42	2,157.14
56 DSM Generation	(MU)	168.92	141.63	54.00	63.90	53.60	46.21	77.21	70.58	27.49	23.27	83.26	122.08	123.99	184.64	182.68	175.90	147.44	173.93
57 DSM Rate 58 Revenue from DSM	(Rs/kWh)				(46.24)	(40.04)	(24.77)	(00.00)	(00.04)	(44.50)	(11.52)	(0.00)	(24.04)	(20.74)	(14.97)	(13.67)	(7.07)	(11.50)	(8.13)
Commonweller received for execution	(Rs. Crore)				(16.34)	(18.81)	(24.//)	(28.83)	(20.01)	(11.56)	(11.52)	(9.96)	(31.81)	(20.74)			(1.07)		(0.13)
below NAPAF	(Rs. Crore)														-	-	-	-	-
beneficiriaes	(Rs. Crore)														- N	-	12.19	3.05	1.68
61 Amount received from SCED	(Rs Crore)								1					1	N/	`	12.19	3.05	1.68

* For entire Vindhyachal Station DSM Revenue (-)Received / (+) Paid

^{**} GCV of coal as received minus 85 kCal/Kg
^ Additional data related to Loading factor (%) submitted

Annexure-XIX

Name of Utility:	NTPC LTD
Name of Generating Station:	Vindhyachal STPS St-II
Station Configuration:	2 X 500 = 1000 MW
Capacity (MW):	1000 MW
COD:	01.10.2000

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)	%	89.79	94.72	96.36	93.25	95.01	97.05	97.10	89.65	94.17	95.00	85.11	88.39	86.91	91.86	90.92	84.82	93.69	87.61
2 Plant Load Factors (PLF) 2a Loading Factor ^	%	87.79	92.18	94.59	91.25	93.00	95.69	93.98	87.73	89.67	88.09	79.10	75.46	73.80	89.18 95.54	88.72 96.86	78.76 92.97	86.81 95.35	81.90 94.29
3 Scheduled Energy	MU	7,191.97	7,570.91	7,828.14	7,569.40	7,698.90	7,933.09	7,766.49	7,236.53	7,402.72	7,329.75	6,433.98	6,170.42	6,105.30	7,373.51	7,348.51	6,545.07	7.159.61	6,742.29
4 Scheduled Generation	MU	7,191.97	7,570.91	7,828.14	7,569,40	7,698.90	7,933.09	7,766.49	7,236.53	7,402.72	7,329.75	6.433.98	6,170.42	6,105.30	7,373.51	7,348.51	6.545.07	7,159.61	6,742.29
5 Actual Generation (Gross)	MU	.,	.,,	.,,	.,	.,,	.,,	.,	.,	.,	.,	2,	-,		7,812.11	7,771.67	6,917.96	7,604.70	7,174.47
6 Actual Generation (ex-bus)	MU														7,363.49	7,315.34	6,469.53	7,121.40	6,717.75
Actual energy supplied to beneficiaries (Long Term, Medium Term and Short Term)	MU	7,332.21	7,695.09	7,878.92	7,618.60	7,734.00	7,977.26	7,827.50	7,279.06	7,400.63	7,275.03	6,332.50	6,065.20	5,986.49	7,362.64	7,343.12	6,459.40	7,158.31	6,815.43
8 Quantum of coal consumption	MT	46.31.260	50.85.910	52.84.517	52.34.961	54.71.350	55.49.583	54.59.611	51.58.371	56.40.211	53.07.033	48.38.044	45.71.001	43,46,732	50,84,592	50,72,485	48,10,429	51,42,697	48,48,093
9 Value of coal	Rs. Lakh	,,,,,		. , . , .		, , , , , , , , , , , , , , , , , , , ,		. , , .	, , , , ,			-,,-		-, -,					
10 Specific Coal Consumption	kg/kWh	0.60	0.63	0.64	0.65	0.67	0.66	0.66	0.67	0.72	0.69	0.70	0.69	0.67		0.65	0.70	0.68	0.68
11 Gross Calorific Value of Coal	(Kcal/ Kg)	3,983	3,755	3,686	3,593	3,497	3,538	3,500	3,440	3,271	3,418	3,375	3,421	3,597	3,637	3,645	3428**	3506**	3528**
12 Heat Contribution of Coal Cost Of Specific Coal Consumption	(Kcal/ kWh)	2,399	2,365	2,351	2,347	2,348	2,342	2,321	2,357	2,349	2,351	2,356	2,359	2,419	2,367	2,379	2,384	2,371	2,384
13 Cost Of Specific Coal Consumption – Finally admitted by CERC (Ex-Bus)	(Rs./kWh)																		l
14 Quantum of Oil Consumption	(KL)	1,147.69	1,279.50	464.11	1,052.52	1,050.30	1,389.97	702.56	1,802.70	953.04	1,247.15	2,231.80	2,771.79	3,098.00	1,594.00	1,698.00	2,490.00	1,677.00	2,483.00
15 Value of Oil	(Rs. lakh)	. =							. ==		0 = 1 1 00		0.701.00				0.004.00		
16 Gross calorific value of oil 17 Specific Oil Consumption	(kcal/lit) (ml/kWh)	9,730.00	9,731.00 0.16	9,735.00 0.06	9,293.90 0.13	9,095.91	9,725.33 0.17	9,729.45 0.09	9,771.10 0.23	9,716.42 0.12	9,714.32 0.16	9,717.03 0.32	9,731.08	9,788.52 0.48	9,850.88 0.20	9,811.81 0.22	9,834.72 0.36	9,767.12 0.22	9,723.36 0.35
Cost Of Specific Oil Consumption	, , ,	0.15	0.16	0.06	0.13	0.13	0.17	0.09	0.23	0.12	0.16	0.32	0.42	0.46	0.20	0.22	0.30	0.22	0.33
Finally admitted by CERC	(Rs./kWh)														<u> </u>	<u> </u>			
19 Heat Contribution of Oil	(Kcal/ kWh)	1.45	1.54	0.55	1.22	1.17	1.61	0.83	2.29	1.18	1.57	3.13	4.07	4.69		2.14		2.15	3.37
20 Station Heat Rate	(Kcal/ kWh)	2,400	2,366	2,351	2,348	2,350	2,344	2,322	2,297	2,350	2,352	2,360	2,363	2,423		2,381	2,387	2,373	2,387
21 Auxiliary Energy Consumption	(%)	5.94	5.89	5.66	5.64	5.84	5.70	6.00	5.93	5.96	5.80	5.95	5.98	6.33	5.68	5.83	6.44	6.31	6.32
22 Debt at the end of the year 23 Equity - Average	(Rs. Crore) (Rs. Crore)	1,067.13 741.15	917.64 744.44	761.00 744.54	594.92 745.78	470.78 747.48	743.03	744.16	744.71	745.32	752.15	761.04	764.96	766.76	765.54	763.25	763.25	765.08	768.39
Working Capital finally admitted by	, ,																		
²⁴ CERC	(Rs. Crore)	252.19	254.24	256.65	259.88	253.96	378.76	380.64	384.31	386.94	379.58	403.02	407.44	410.35	422.05	428.02	397.14	400.59	404.10
25 CERC - Illiany admitted by	(Rs. Crore)	2,551.24	2,551.24	2,551.24	2,551.24	2,551.24	2,476.78	2,480.54	2,482.38	2,484.40	2,507.17	2,536.80	2,549.88	2,555.89	2,551.81	2,544.17	2,544.15	2,550.26	2,563.91
Capacity Charges/ Annual	(Rs. Crore)	441.51	444.13	449.64	451.39	398.55	509.20	507.92	512.26	518.14	459.04	444.92	455.74	467.03	479.42	493.07	500.58	507.67	516.88
Fixed Cost (AFC) (a) Return on equity – post tax																			
27 (admitted by CERC upto 2009) and Pre Tax post 2009																			
28 Absolute value	(Rs. Crore)	107.15	107.15	107.15	107.15	107.15	174.47	172.72	170.87	171.01	176.61	149.24	150.74	151.09		150.80	143.35	143.70	144.32
29 Rate	(%)	23.48	23.48	23.48	23.48	23.48	23.48	23.21	22.94	22.94	23.48	19.61	19.71	19.71	19.71	19.76	18.78	18.78	18.78
30 (b) interest on Loan 31 Absolute value	(Rs. Crore)	70.98	64.13	58.34	46.31	31.73	14.88	7.69	3.88	0.89					_		_	-	-
32 Rate – Weighted Average Rate	(NS. CIOIE)	6.25	6.46	6.95	6.83	5.95	3.83	3.00	2.96	2.61		2.34	2.34	2.34		2.34		2.34	2.34
33 (c) Depreciation (finally allowed	(70)	0.20	0.40	0.55	0.00	0.00	0.00	0.00	2.50	2.01		2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04
by CERC)																			
34 Absolute value 35 AAD	(Rs. Crore)	92.64	92.64	92.64	92.64	92.64	126.95	126.98	127.08	127.24	55.53	56.35	57.44	58.03	58.64	58.53	59.40	60.43	63.23
35 AAD 36 Rate	(%)	51.29 4.74	56.85 4.74	64.00 4.74	73.45 4.74	31.50 4.74	Į.				l .	l l	L	4.74	-		-		
37 (d) Interest on working Capital	(/0)	4.74	4.74	4.74	4.74	4.74	l l		J		l	ı	1	4.74	1		1		
38 Absolute value	(Rs. Crore)	25.85	26.06	26.31	26.64	26.03	46.40	46.63	47.08	47.40	46.50	54.41	55.00	55.40	56.98	57.78	47.86	45.07	42.43
39 Rate	(%)	10.25	10.25	10.25	10.25	10.25	12.25	12.25	12.25	12.25	12.25	13.50	13.50	13.50	13.50	13.50	12.05	11.25	10.50
(e) Operation and maintenance cost (finally admitted by CERC)																			
41 Absolute value	(Rs. Crore)	93.60	97.30	101.20	105.20	109.50	130.00	137.40	145.30	153.60	162.40	182.92	190.56	197.51	207.96	220.97	249.97	258.48	266.88
42 Rate	(%)																		
43 (f) Compensation Allowances	(Rs. Crore)								1.50	1.50	1.50	2.00	2.00	5.00	5.00	5.00			
44 (g) Special Allowance	(Rs. Crore)																ļ		
h) Supplementary Tariff - Emission Control	(D. O)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA	NA		NA NA		NA	NA
46 Absolute value 47 Rate	(Rs. Crore) (%)	NA NA	NA NA		NA NA	NA NA	NA NA	NA NA	NA NA	NA NA		NA NA	NA NA	NA NA				NA NA	NA NA
48 i) Ash Utilisation Expenses *	(Rs. Crore)	NA.	NA.	INA	INA	NA.	NA.	INA	NA.	INA	INA	NA.	NA	NA.	NA.	IN/	INA	20.71	58.73
49 AFC	(Rs./ kWh)	0.63	0.64	0.65	0.65	0.57	0.73	0.73	0.74	0.74	0.66	0.63	0.65	0.67	0.68	0.70	0.72	0.73	0.75
50 Energy Charge	(Rs./kWh)	0.77	0.84	0.93	0.99	1.18	1.16	1.42	1.55	1.40		1.57	1.59	1.72		1.49		1.59	1.55
51 Supplemental Energy Charges - Emission Control	(Rs./kWh)																		
52 Total tariff	(Rs. kWh)	1.40	1.48	1.58	1.64	1.75	1.89	2.15	2.29	2.14	2.17	2.22	2.24	2.38	2.23	2.19	2.41	2.32	2.30
53 Revenue realisation before tax	(Rs. Crore)																1		
54 Revenue realisation after tax 55 Profit/ loss *	(Rs. Crore) (Rs. Crore)	477.09	414.75	611.22	891.07	949.03	1,107.48	1,308.06	821.60	1,177,96	1,297.45	1,023.52	1,374.66	1,451.98	1,432.18	1,640.02	1,690.03	1,473.42	2,157.14
56 DSM Generation	(MU)	140.24	124.19	50.78	49.20	35.10	1,107.48	1,308.06	42.53	(2.09)	(54.71)	71,72	50.79	1,451.98	(10.03)	(33.17)	(75.54)	(38.21)	(24.55)
55 DOM Generation	(IVIU)	140.24	124.19	50.78	48.20	30.10	44.17	01.01	42.03	(2.09)	(04.71)	11.12	30.18	2.31	(10.03)	(00.17)	(13.34)	(30.21)	(24.33)

57	DSM Rate	(Rs/kWh)																	
58	Revenue from DSM	(Rs. Crore)			(13.49)	(11.01)	18.11	(18.15)	(10.17)	(3.56)	1.29	(12.92)	(18.50)	(7.20)	(7.24)	(6.73)	1.29	(3.75)	(7.00)
59	Compensation received for operation below NAPAF	(Rs. Crore)													-	ı	1	-	-
60	Part load Compensation received from beneficiriaes	(Rs. Crore)	·	·		·								·	-	-	-	-	-
61	Amount received from SCED	(Rs Crore)													NA	NA	5.65	1.70	0.82

^{**} GCV of coal as received minus 85 kCal/Kg ^ Additional data related to Loading factor (%) submitted *For entire Vindhyachal Station DSM Revenue (-)Received / (+) Paid

Annexure-XIX

Name of Utility:	NTPC Ltd.
Name of Generating Station:	Vindhyachal STPS St-III
Station Configuration:	2X500 MW
Capacity (MW):	1000 MW
COD:	15.07.2007

2 Pla 2a Loa 3 Sch 4 Sch 5 Act 6 Act	ant Availability Factor (PAF) ant Load Factors (PLF) ading Factor ^ theduled Energy	%	to 31.03.2007) 93.50	14.07.2007)	31.03.2008)														2021-22
2 Pla 2a Loa 3 Sch 4 Sch 5 Act 6 Act	ant Load Factors (PLF) ading Factor ^				97.93	96.97	99.70	99.42	97.19	98.97	98.66	88.18	93.59	95.07	95.30	94.42	90.46	99.06	89.94
2a Loa 3 Sch 4 Sch 5 Act 6 Act Act	ading Factor ^		90.55		94.86	94.16	97.52	95.73	93.77	93.02	89.30	80.27	84.62	81.79	91.61	91.23	85.59	94.14	84.40
4 Sch 5 Act 6 Act Act	hadulad Faceni	%													96.29	96.45	94.23	97.39	95.40
5 Act 6 Act Act		MU	1,255.82		6,796.60	7,854.10	8,148.63	8,010.37	7,800.52	7,789.47	7,526.92	6,641.68	6,966.46	6,741.23	7,571.00	7,584.77	7,208.26	7,765.26	7,011.10
6 Act	heduled Generation	MU	1,255.82		6,796.60	7,854.10	8,148.63	8,010.37	7,800.52	7,789.47	7,526.92	6,641.68	6,966.46	6,741.23	7,571.00	7,584.77	7,208.26	7,765.26	7,011.10
Act	tual Generation (Gross)	MU													8,025.17	7,991.61	7,518.16	8,246.34	7,393.78
	tual Generation (ex-bus)	MU													7,590.06	7,568.18	7,103.82	7,800.22	6,975.38
	neficiaries (Long Term, Medium erm and Short Term)	MU	1,240.13		6,840.90	7,893.50	8,200.05	8,055.91	7,854.45	7,783.57	7,472.67	6,537.55	6,851.92	6,620.18	7,548.20	7,575.91	6,978.61	7,721.97	7,074.69
	antum of coal consumption	MT	8,31,150	4	46,76,034.00	54,73,645	56,50,143	55,89,135	54,32,119	58,35,832	53,78,820	48,75,877	51,19,397	48,27,054	52,14,718	52,26,066	52,63,474	55,56,285	50,03,672
	lue of coal	Rs. Lakh			0.00									0.07	0.05	0.05	0.70		0.00
	ecific Coal Consumption oss Calorific Value of Coal	kg/kWh (Kcal/ Kg)	0.63 3,752		0.66 3,578	0.66 3,495	0.66 3,536	0.67 3,512	0.67 3,444	0.72 3,273	0.69 3,412	0.69 3,383	0.69 3,417	0.67 3,554	0.65 3,642	0.65 3,631	0.70 3408**	0.67 3503**	0.68 3521**
	eat Contribution of Coal	(Kcal/ kWh)	2.372		2,344	2.319	2,339	2,341	2,331	2.344	2.346	2.346	2.354	2.394	2,366	2.374	2,386	2,360	2.383
13 Cos	est Of Specific Coal Consumption Finally admitted by CERC (Ex-Bus)	(Rs./kWh)	2,012			2,010	2,000	2,011	2,001	2,011	2,010	2,510	2,50 1	,	·			•	1
	antum of Oil Consumption	(KL)	614.76		1,736.69	1,414.05	949.15	984.04	859.98	945.72	598.29	1,650.66	1,924.96	2,932.00	723.00	1,208.00	878.00	750.00	1,572.00
	lue of Oil	(Rs. lakh)	0.000		0.500.40	0.000.55	0.704	0 700	0.755	0 704	0.004 ==	0.005	0.000 = :	0.550.65	0.704.70	0.040.61	0.700.00	0.747.00	0.040.05
	oss calorific value of oil ecific Oil Consumption	(kcal/lit) (ml/kWh)	9,735.00 0.47		8,599.10 0.24	9,222.99 0.17	9,731.00 0.11	9,726.00 0.12	9,755.00 0.11	9,721.20 0.12	9,694.56 0.08	9,695.25 0.23	9,660.51 0.26	9,552.95 0.41	9,734.78 0.09	9,818.34 0.15	9,722.82 0.12	9,717.62 0.09	9,648.85 0.21
18 Cos	ost Of Specific Oil Consumption – nally admitted by CERC	(Rs./kWh)	0.47		0.24	0.17	0.11	0.12	0.11	0.12	0.08	0.23	0.20	0.41	0.09	0.13	0.12	0.09	0.21
	eat Contribution of Oil	(Kcal/ kWh)	4.55		2.09	1.58	1.08	1.14	1.03	1.13	0.74	2.28	2.50	3.91	0.88	1.48	1.14	0.88	2.05
	ation Heat Rate	(Kcal/ kWh)	2,376		2,346	2,321	2,340	2,342	2,284	2,345	2,347	2,348	2,356	2,398	2,367	2,376	2,387	2,361	2,385
	ixiliary Energy Consumption	(%)	5.68		4.88	4.85	4.69	4.30	4.56	4.93	4.94	5.30	5.75	5.69	5.36	5.25	5.47	5.37	
	ebt at the end of the year	(Rs. Crore)	1,291.19	1,304.65	2,310.11	2,265.87	2,003.17	1,845.75	1,667.03	1,486.88	1,310.60	1,179.27	1,012.46	830.06	650.16	461.68	374.02	283.15	
24 Wo	uity - Average orking Capital – finally admitted by ERC	(Rs. Crore)	559.44 165.48	565.46 166.96	1,024.88 323.33	1,053.86 330.98	1,045.61 425.28	1,056.49 427.12	1,062.66 429.93	1,064.16 430.43	1,066.20 433.10	1,078.62 454.90	1,094.38 455.38	1,100.42 457.09	1,103.33 467.05	1,104.92 472.26	1,105.87 413.48	1,107.26 416.05	1,108.54 418.63
ar Ca	ipital cost – Illiany admitted by	(Rs. Crore)	1,864.81	1,884.88	3,452.97	3,572.76	3,485.38	3,521.64	3,542.21	3,547.22	3,553.99	3,595.41	3,647.92	3,668.05	3,677.76	3,683.08	3,686.25	3,690.87	3,697.76
26 Cap	spacity Charges/ Annual sed Cost (AFC)	(Rs. Crore)	313.10	319.74	595.58	627.07	787.90	786.33	785.58	778.67	779.74	748.96	745.94	743.95	743.76	748.00	633.97	633.10	633.04
27 (ad	Return on equity – post tax dmitted by CERC upto 2009) and e Tax post 2009																		
	solute value	(Rs. Crore)	78.32	79.17	143.48	147.54	245.52	245.21	243.82	244.16	250.35	211.52	215.65	216.84	217.41	218.31	207.70	207.97	208.20
29 Rat		(%)	14.00	14.00	14.00	14.00	23.48	23.21	22.94	22.94	23.48	19.61	19.71	19.71	19.71	19.76	18.78	18.78	18.78
	interest on Loan	(D. O)	00.04	100.15	400.00	400.00	400.00	450.57	440.07	400.00	440.00	400.05	00.00	75.04	50.00	44.69	04.00	07.40	40.00
	solute value ate – Weighted Average Rate	(Rs. Crore) (%)	99.24 7.64	102.15 7.83	183.39 7.87	180.69 7.97	163.23 7.85	152.57 7.93	143.87 8.19	128.00 8.12	113.39 8.11	100.95 8.11	89.06 8.13	75.81 8.23	59.83 8.08	8.04	34.38 8.23	27.18 8.27	19.96 8.30
33 (c)	Depreciation (finally allowed CERC)	(78)	7.04	7.63	7.07	7.97	7.65	7.93	6.19	0.12	6.11	6.11	6.13	0.23	0.00	0.04	0.23	0.21	0.30
	solute value	(Rs. Crore)	67.98	68.71	123.90	127.40	180.12	181.91	182.96	183.26	183.61	185.81	188.55	189.62	190.15	190.45	92.33	92.68	93.24
35 AA			-	-	-	21.40													L
36 Rat		(%)	3.65	3.65	3.63				1				3.63	5.17	5.17	5.17	Spe	ad over usefu	l life
	Interest on working Capital poolute value	(Rs. Crore)	16.96	17.11	39.61	40.54	52.10	52.32	52.67	52.73	53.05	61.41	61.48	61.71	63.05	63.76	49.82	46.81	43.96
39 Rat		(%)	10.35	10.25	10.25	10.25	12.25	12.25	12.25	12.25	12.25	13.50	13.50	13.50	13.50	13.50	12.05	11.25	10.50
40 (fin	Operation and maintenance cost nally admitted by CERC)	X-57																	
	solute value	(Rs. Crore)	50.60	52.60	105.20	109.50	130.00	137.40	145.30	153.60	162.40	189.28	191.21	199.95	212.32	228.80	249.73	258.47	267.60
42 Rat		(%) (Rs. Crore)													1.00	2.00	I	Not Applicable	
	Compensation Allowances Special Allowance	(Rs. Crore)								No	t Applicable				1.00	2.00		TOT APPIICABLE	
45 h) S	Supplementary Tariff - Emission ontrol	(NS. Clole)								NO	ТАрріїсавіе								
	solute value	(Rs. Crore)								No	t Applicable								
47 Rat		(%)	1				-	1							1	ı	1	20.74	58.73
48 i) A 49 AF	Ash Utilisation Expenses *	(Rs. Crore) (Rs./ kWh)	0.97	0.99	0.92	0.97	1.13	1.13	1.13	1.12	1.12	1.07	1.06	1.06	1.06	1.07	0.91	20.71 0.91	0.91
	ergy Charge	(Rs./kWh)	0.95	1.00	1.00	1.18	1.15	1.13	1.13	1.12	1.51	1.55	1.52	1.70	1.45	1.48	1.69	1.57	1.53
51 Sup Em	ipplemental Energy Charges - nission Control	(Rs./kWh)																	
52 Tot	tal tariff	(Rs. kWh)	1.92	1.99	1.92	2.15	2.28	2.54	2.69	2.52	2.63	2.62	2.58	2.76	2.51	2.55	2.60	2.48	2.44

53 Revenue realisation before tax	(Rs. Crore)																
54 Revenue realisation after tax	(Rs. Crore)																
55 Profit/ loss *	(Rs. Crore)	611.22	891.07	949.03	1,107.48	1,308.06	821.60	1,177.96	1,297.45	1,023.52	1,374.66	1,451.98	1,432.18	1,640.02	1,690.03	1,473.42	2,157.14
56 DSM Generation	(MU)	(15.69)	44.30	39.40	51.42	45.54	53.93	(5.90)	(54.25)	100.47	100.03	60.38	19.06	(16.59)	(104.44)	34.96	(35.72)
57 DSM Rate	(Rs/kWh)																
58 Revenue from DSM	(Rs. Crore)		(12.66)	(12.77)	(20.22)	(14.28)	(16.00)	(4.76)	(0.65)	(27.51)	(36.93)	(24.86)	(36.23)	(22.08)	(6.52)	(29.92)	(13.88)
59 Compensation received for operation below NAPAF	(Rs. Crore)												-	-	-	-	
60 Part load Compensation received from beneficiriaes	(Rs. Crore)												-	-	-	-	-
61 Amount received from SCED	(Rs Crore)												NA	NA	7.19	1.67	0.84

^{**} GCV of coal as received minus 85 kCal/Kg ^ Additional data related to Loading factor (%) submitted * For entire Vindhyachal Station DSM Revenue (-)Received / (+) Paid

Α	nnexure-XIX	

Name of Utility:	NTPC Ltd
Name of Generating Station:	Vindhyachal STPS St-IV
Station Configuration:	2X500 MW
Capacity (MW):	1000 MW
COD:	27.03.2014

SAN Particulars Unit 010.1310.313 010.42.2015 0210.42 2014-15 2015-16 2016-17 2017-18 2018-19 2019-2019-17 2010-17 201				2012-13	2013-14	2013-14	1	1						
Piet Availability Factor (PAF) % 24-40 91-52 86-44 80-00 97-30 80-00 98-80 98-81 80-44	N Pa	articulars	Unit	(01.03.13 to	(01.04.2013-	(27.03.2014-	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20 ***	2020-21 ***	2021-22 ***
22 Loaning Factor	1 Pla	lant Availability Factor (PAF)			,		86.44	95.05	97.36				87.85	92.26
3 Sheekaded Germarition MU 94.86 3,506.34 6,604.63 6,779.78 6,876.70 7,282.54 7,606.42 7,707.72 6,6 5 Archard Germarition (Cross) MU 79.32 3,440.46 6,607.26 6,779.78 6,876.00 7,778.86 8,200.02 7,856.45 7,777.2 6,6 6 Archard Germarition (Cross) MU 79.32 3,440.46 6,607.26 6,779.77 6,559.24 7,265.73 7,889.24 7,190.00 7,876.13 7,000.00 7 Long Term, Medium Term and Short Term MU 79.32 3,440.46 6,607.26 6,779.77 6,559.24 7,265.73 7,889.24 7,190.20 6,8 8 Ouarthan for Goal Communique of Conformation MT 69,345 25,41.89 48,92.49 50,22.273 47,80.00 60,026.148 53,43.13 54,000.77 49,7 9 Value of Coal Communique of Res. Light 7,190.20 6,8 7,190.20 7,265.60 7,285.24 7,190.20 6,8 10 Specific Coal Communique of Coal Coal Coal Coal Coal Coal Coal Coal		\ /		25.14		82.44	80.40	82.98	81.06				84.86	88.07
4 Scheduled Generation MJ 84.88 3.566.34 6.604.63 6.779.76 6.587.90 7.282.54 7.095.42 7.370.72 5.95 Actual Generation (Gross) MJ 7.778.36 8.2000.2 7.785.56 7.747.00 7.407.13 7.0 A Chall Generation (Gross) MJ 7.785.36 7.747.00 7.407.13 7.0 A Chall Generation (Gross) MJ 7.785.36 7.747.00 7.407.13 7.0 A Chall Generation (Gross) MJ 7.785.36 7.747.00 7.407.13 7.0 A Chall Generation (Gross) MJ 7.785.36 7.747.00 7.407.13 7.0 A Chall Generation (Gross) MJ 7.785.36 7.746.00 7.407.13 7.0 A Chall Generation (Gross) MJ 7.785.36 7.746.00 7.407.13 7.0 A Chall Generation (Gross) MJ 7.785.36 7.746.00 7.407.13 7.0 A Chall Generation (Gross) MJ 7.785.36 7.746.00 7.7407.13 7.0 B Value of Coal Communition MJ 8.848.00 8.0 B SL 18th 9.0 10 Specific Coal Communition (Gross) MJ 7.785.36 8.0 110 Gross Galorific Value of Coal (Gross MyNn) 2.364 2.370 2.347 3.550 3.044 3.041 3.0428* 3.0 121 Heat Centribution of Coal (Gross MyNn) 2.364 2.370 2.347 2.340 2.400 2.355 2.375 2.365 3.0 124 Heat Centribution of Coal (Gross MyNn) 2.364 2.370 2.347 2.347 3.500 3.044 3.041 3.0428* 3.0 125 Coat Of Specific Coal Communition (Gross MyNn) 2.364 2.370 2.347 2.345 2.400 2.355 2.375 2.356 3.0 126 Coat Of Specific Coal Communition (Gross MyNn) 1.773 0.50 0.0 127 Specific Coal Communition (MiNN) 1.773 0.50 0.0 128 Coat Of Specific Coal Communition (MiNN) 1.773 0.54 0.0 129 Coat Of Specific Coal Communition (MiNN) 1.773 0.54 0.0 120 Coat Of Specific Coal Communition (MiNN) 1.773 0.54 0.0 120 Coat Of Specific Coal Communition (MiNN) 1.773 0.54 0.0 125 Specific Coal Communition (MiNN) 1.773 0.54 0.0 126 Coat Of Specific Coal Communition (MiNN) 1.773 0.54 0.0 127 Specific Coal Communition (MiNN) 1.773 0.54 0.0 128 Coat Of Specific Coal Communition (MiNN) 1.773 0.0 129 Coat Of Specific Coal Communition (MiNN) 1.775 0.0 120 Coat Of Specific Coal Communition (MiNN) 1.775 0.0 120 Coat Of Specific Coal Communition (MiNN) 1.775 0.0 121 Coat Of Specific Coal Communition (MiNN) 1.775 0.0 122 Coat Of Specific Coal Communition (MiNN) 1.775		Ü											97.50	95.68
S Actual Generation (Cinoss)							.,			,			6,941.91	7,232.43
6 Actual Generation (ex-bus)				84.86		3,506.34	6,604.63	6,779.78	6,587.90				6,941.91	7,232.43
Table Tabl	- / 10	- (- /								,	-,		7,433.59	7,714.51
Tolera Term Medium Term and Short Term MU			MU							7,353.96	7,740.00	7,407.13	7,025.79	7,282.27
9 Value of coal Re. Lieh 0.74 0.69 0.69 0.67 0.65 0.65 0.69 11 Cross Calconsumption kg/kWh 0.74 0.69 0.69 0.67 0.65 0.65 0.65 0.69 11 Cross Calconfic Value of Coal (Kcalf Kg) 3.188 3.413 3.376 3.417 3.560 3.644 3.641 3428*** 3.218 Head Contribution of Coal (Kcalf KWh) 2.364 2.370 2.347 2.354 2.400 2.355 2.375 2.356 2.375 2.375 2.356 2.375 2			MU	79.32		,	6,607.25	6,779.77	6,559.24	7,265.73	7,689.24	7,159.29	6,875.49	7,315.23
10 Specific Coal Consumption KgAWh 0.74 0.69 0.69 0.67 0.65 0.65 0.69 0.61	-			69,345		25,41,481	48,92,491	50,22,273	47,86,096	50,26,148	53,49,313	54,00,787	49,72,265	51,85,826
11 1 1 1 1 1 1 1 1	9 Va	alue of coal												
12 Heat Contribution of Coal (Kcal kWh) 2,364 2,370 2,347 2,354 2,400 2,355 2,375 2,356	10 Sp	pecific Coal Consumption	kg/kWh										0.67	0.67
13 Cest Of Specific Cold Consumption (Rs. kWh) 1,097.00 1,966.90 2,785.55 2,545.61 3,698.00 1,592.00 972.00 1,497.00 1,77 1,77 1,097.00 1,497.00 1,77 1,97										- , -	- , -		3485**	3502**
13 - Finally admitted by CERC (Ex-Bus) (RS. Ixivit) (RS. I	12 He	eat Contribution of Coal	(Kcal/ kWh)	2,364		2,370	2,347	2,354	2,400	2,355	2,375	2,356	2,331	2,354
15 Value of Oil (Rs. lakh) 9,760.00 9,274.01 9,580.78 9,685.15 9,785.67 9,685.17 9,881.77 9,855.67			(Rs./kWh)											
16 Gross caloriffic value of oil (scallit) 9,760.00 9,274.01 9,590.78 9,693.15 9,763.67 9,681.77 9,655.67 9,8 17 Specific Oil Consumption (fts./kWh) 11.73 0.54 0.40 0.35 0.52 0.20 0.12 0.19 18 Finally admitted by CERC (fts./kWh) 114.50 4.98 3.70 3.39 5.08 1.98 1.15 1.84 19 Heat Contribution of Oil (Kcall kWh) 2,479 2,376 2,351 2,357 2,405 2,357 2,358 2,358 2,357 2,358 2,358 2,357 2,358	14 Qı	uantum of Oil Consumption	(KL)	1,097.00		1,966.90	2,785.55	2,545.61	3,698.00	1,592.00	972.00	1,497.00	1,709.00	1,096.00
17 Specific Oil Consumption (ml/kWh) 11.73 0.54 0.40 0.35 0.52 0.20 0.12 0.19	15 Va	alue of Oil	(Rs. lakh)											
Cost Of Specific Oil Consumption — (Rs /kWh) 114.50	16 Gr	ross calorific value of oil	(kcal/lit)	9,760.00			9,590.78	9,693.15	9,763.67			9,655.67	9,828.14	9,585.91
Finally admitted by CERC (RS./RVIII)	17 Sp	pecific Oil Consumption	(ml/kWh)	11.73		0.54	0.40	0.35	0.52	0.20	0.12	0.19	0.23	0.14
20 Slation Heat Rate (Kcal WWh) 2,479 2,375 2,351 2,357 2,405 2,357 2,366 2,358 2,376 2,358 2,376 2,357 2,405 2,357 2,405 2,357 2,376 2,358 2,357 2,405 2,357 2,405 2,357 2,405 2,357 2,376 2,358 2,357 2,405 2,357 2,405 2,357 2,405 2,357 2,405 2,357 2,405 2,357 2,205 2,358 2,357 2,405 2,357 2,405 2,357 2,405 2,357 2,405 2,357 2,405 2,357 2,405 2,357 2,405 2,357 2,366 2,365 2,367 2,366 2,367 2,366 2,367 2,366 2,367			(Rs./kWh)											
21 Auxiliary Energy Consumption (%) 11.11 5.57 5.53 5.61 5.87 5.39 5.56 5.67 22 Debt at the end of the year (Rs. Crore) 1.625.58 1,756.94 3.201.00 3.342.48 3.289.62 3.074.40 2.826.70 2.576.03 2.534.31 2.22 23 Equity - Average (Rs. Crore) 688.49 755.35 1,427.66 1,515.53 1,649.57 1,714.40 1,740.80 1,761.31 1,912.05 1,9 24 Working Capital – finally admitted by CERC (Rs. Crore) 208.56 216.56 540.07 419.46 432.35 438.14 447.14 449.67	19 He	eat Contribution of Oil	(Kcal/ kWh)	114.50			3.79	3.39	5.08	1.98	1.15		2.26	1.36
22 Debt at the end of the year (Rs. Crore) 1,625.68 1,756.94 3,201.00 3,342.48 3,289.62 3,074.40 2,826.70 2,576.03 2,543.10 2,2	20 St	tation Heat Rate	(Kcal/ kWh)	2,479		,	2,351	2,357	2,405	2,357	2,376		2,334	2,355
Equity - Average CRs. Crore 688.49 755.35 1,427.66 1,515.53 1,649.57 1,714.40 1,740.80 1,761.31 1,912.05 1,9	21 Αι	uxiliary Energy Consumption	(%)			5.57			5.87				5.44	5.56
Working Capital - finally admitted by CERC Rs. Crore 208.56 216.56 540.07 419.46 432.35 438.14 447.14 449.67 482.96 4 425.06 4 425.	22 De	ebt at the end of the year											2,224.82	1,977.16
Capital cost - finally admitted by CERC (Rs. Crore) 2,294.96 2,699.39 4,767.07 5,336.46 5,666.68 5,768.68 5,905.40 6,373.49 6,4			(Rs. Crore)					,					1,927.16	1,951.51
Capacity Charges/ Annual Fixed Cost (AFC) (Rs. Crore) 516.55 558.16 1,097.72 1,018.11 1,077.89 1,100.10 1,107.33 1,104.99 1,206.75 1,1 1,107.80			(Rs. Crore)										485.07	487.50
Fixed Cost (AFC) S16.55 S58.16 1,097.72 1,018.11 1,077.89 1,100.10			(Rs. Crore)	2,294.96	2,699.39	4,767.07	5,336.46	5,660.68	5,768.68				6,423.88	6,505.03
Comparison of the Comparison			(Rs. Crore)	516.55	558.16	1,097.72	1,018.11	1,077.89	1,100.10	1,107.33	1,104.99	1,206.75	1,199.13	1,196.49
29 Rate (%) 22.94 23.48 23.48 19.61 19.71 19.71 19.71 19.71 19.71 19.705.00 18.78	27 (a	admitted by CERC upto 2009) and Pre Tax												
30 (b) interest on Loan 31 Absolute value (Rs. Crore) 131.91 140.36 272.46 266.27 265.13 253.69 240.33 219.85 204.14 1 1 1 1 1 1 1 1 1	28 Ab	bsolute value	(Rs. Crore)					325.06		343.03	347.07	359.12	361.96	366.53
Absolute value (Rs. Crore) 131.91 140.36 272.46 266.27 265.13 253.69 240.33 219.85 204.14 1 1 1 1 1 1 1 1 1		ate	(%)	22.94	23.48	23.48	19.61	19.71	19.71	19.71	1,90,705.00	18.78	18.78	18.78
Rate - Weighted Average Rate (%) 8.24 8.30 8.52 8.14 8.00 7.97 8.15 8.14 7.60		,												
33 (c) Depreciation (finally allowed by CERC) 34 Absolute value (Rs. Crore) 115.58 124.53 242.21 257.08 279.82 290.82 295.30 298.78 334.99 3 35 AAD			\										181.45	159.96
33 Absolute value (Rs. Crore) 115.58 124.53 242.21 257.08 279.82 290.82 295.30 298.78 334.99 3 3 3 AD			(%)	8.24	8.30	8.52	8.14	8.00	7.97	8.15	8.14	7.60	7.61	7.61
35 AAD	by	y CERC)												
36 Rate (%) 5.04 4.95 5.09 <			(Rs. Crore)	115.58	124.53	242.21	257.08	279.82	290.82	295.30	298.78	334.99	337.64	341.90
37 (d) Interest on working Capital														
38 Absolute value (Rs. Crore) 28.16 29.24 71.29 56.63 58.37 59.15 60.36 60.71 58.20 39 Rate (%) 13.50 13.50 13.50 13.50 13.50 13.50 13.50 13.50 13.50 13.50 13.50	36 Ra	ate	(%)	5.04	4.95	5.09	5.09	5.09	5.09	5.09	5.09	5.26	5.26	5.26
39 Rate (%) 13.50														
(e) Operation and maintenance cost (finally													58.45	58.74
	39 Ra	ate	(%)	13.50	13.50	13.20	13.50	13.50	13.50	13.50	13.50	12.05	12.05	12.05
		e) Operation and maintenance cost (finally dmitted by CERC)												
41 Absolute value (Rs. Crore) 65.28 69.02 138.04 140.93 149.52 158.61 168.30 178.59 250.30 2	41 Ab	bsolute value	(Rs. Crore)	65.28	69.02	138.04	140.93	149.52	158.61	168.30	178.59	250.30	259.62	269.35
42 Rate (%)	42 Ra	ate	(%)											
43 (f) Compensation Allowances (Rs. Crore)	43 (f)) Compensation Allowances	(Rs. Crore)					Not	Applicable (NA)					

44 (g) Special Allowance	(Rs. Crore)	7				140	Applicable (14A)					ĺ
45 h) Supplementary Tariff - Emission Control	(1.15. 5.5.5)											
46 Absolute value	(Rs. Crore)	,					N-4 A1:1-1-		•			
47 Rate	(%)	1					Not Applicable					
48 i) Ash Utilisation Expenses *	(Rs. Crore)										20.71	58.73
49 AFC	(Rs./kWh)	1.48	1.60	1.58	1.49	1.57	1.57	1.58	1.57	1.73	1.72	1.71
50 Energy Charge	(Rs./kWh)	1.47	1.51	1.51	1.57	1.56	1.69	1.45	1.49	1.66	1.56	1.52
51 Supplemental Energy Charges - Emission Control	(Rs./kWh)											
52 Total tariff	(Rs. kWh)	2.95	3.11	3.09	3.06	3.13	3.26	3.03	3.06	3.39	3.28	3.23
53 Revenue realisation before tax	(Rs. Crore)											
54 Revenue realisation after tax	(Rs. Crore)											
55 Profit/ loss *	(Rs. Crore)	1,177.96		1,297.45	1,023.52	1,374.66	1,451.98	1,432.18	1,640.02	1,690.03	1,473.42	2,157.14
56 DSM Generation	(MU)	(5.54)		(65.85)	55.83	110.41	102.33	71.42	44.58	36.41	83.88	49.84
57 DSM Rate	(Rs/kWh)											
58 Revenue from DSM	(Rs. Crore)	0.82		2.28	(16.57)	(33.63)	(33.95)	(29.19)	(14.45)	(10.73)	(13.22)	(13.88)
59 Compensation received for operation below NAPAF	(Rs. Crore)							-	-	-	-	-
60 Part load Compensation received from beneficiriaes	(Rs. Crore)							-	-	-	-	-
61 Amount received from SCED	(Rs Crore)							NA	NA	6.54	1.63	0.45

^{**} GCV of coal as received minus 85 kCal/Kg

[^] Additional data related to Loading factor (%) submitted

^{*} For entire Vindhyachal Station
DSM Revenue (-)Received / (+) Paid
*** 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:	VSTPS Stage-V
Station Configuration:	1X 500MW
Capacity (MW):	500
COD:	30.10.2015

C N	Danti-culous	11!4	2015-16	0040 47	0047.40	0040.40	0040 00 ***	0000 04 ***	0004 00 ***
S.N	Particulars	Unit	(30.10.2015- 31.03.2016)	2016-17	2017-18	2018-19	2019-20 ***	2020-21 ***	2021-22 ***
1	Plant Availability Factor (PAF)	%	94.40	90.88	99.07	92.77	98.54	96.56	90.63
2	Plant Load Factors (PLF)	%	73.00	79.65	94.12	88.47	93.02	90.97	83.65
2a	Loading Factor ^	%			94.80	96.51	94.17	96.48	94.33
3	Scheduled Energy	MU	1,246.82	3,295.78	3,865.67	3,627.45	3,844.07	3,696.74	3,419.81
4	Scheduled Generation	MU	1,246.82	3,295.78	3,865.67	3,627.45	3,844.07	3,696.74	3,419.81
5	Actual Generation (Gross)	MU			4,122.43	3,875.00	4,085.30	3,984.40	3,663.68
6	Actual Generation (ex-bus)	MU			3,891.51	3,653.66	3,851.86	3,738.67	3,429.58
7	Actual energy supplied to beneficiaries (Long Term, Medium Term and Short Term)	MU	1,239.46	3,282.65	3,846.72	3,620.70	3,660.57	3,645.54	3,467.25
8	Quantum of coal consumption	MT	9,27,255	23,56,681	26,52,210	25,13,537	28,16,645	26,51,328	24,72,501
9	Value of coal	Rs. Lakh	-	-					
10	Specific Coal Consumption	kg/kWh	0.69	0.68	0.64	0.65	0.69	0.67	0.67
11	Gross Calorific Value of Coal	(Kcal/ Kg)	3,434	3,506	3,639	3,625	3418**	3500**	3488**
12	Heat Contribution of Coal	(Kcal/ kWh)	2,360	2,368	2,341	2,352	2,356	2,329	2,354
13	Cost Of Specific Coal Consumption– Finally admitted by CERC (Ex-Bus)	(Rs./kWh)							
14	Quantum of Oil Consumption	(KL)	1,953.84	2,496.00	281.00	1,181.00	298.00	808.00	591.00
15	Value of Oil	(Rs. lakh)							
16	Gross calorific value of oil	(kcal/lit)	9,147.77	9,366.97	9,469.20	9,457.25	9,458.45	9,590.49	9,038.21
17	Specific Oil Consumption	(ml/kWh)	1.45	0.72	0.07	0.30	0.07	0.20	0.16
18	Cost Of Specific Oil Consumption —Finally admitted by CERC	(Rs./kWh)							
19	Heat Contribution of Oil	(Kcal/ kWh)	13.25	6.70	0.65	2.88	0.69	1.94	1.46
20	Station Heat Rate	(Kcal/ kWh)	2,373	2,375	2,342	2,354	2,357	2,331	2,355
21	Auxiliary Energy Consumption	(%)	5.76	5.58	5.54	5.67	5.67	6.13	6.35
22	Debt at the end of the year	(Rs. Crore)	1,345.23	1,546.76	1,672.40	1,569.78	1,523.47	1,386.92	1,222.28
23	Equity - Average	(Rs. Crore)	604.92	690.36	816.68	884.86	910.91	927.64	935.64
24	Working Capital – finally admitted by CERC	(Rs. Crore)	326.02	339.65	356.27	364.59	264.92	267.02	268.05
25	CERC	(Rs. Crore)	2,016.40	2,301.21	2,722.27	2,949.53	3,036.35	3,092.13	3,120.10
26	Capacity Charges/ Annual Fixed Cost (AFC)	(Rs. Crore)	460.99	513.06	571.55	611.18	633.69	637.46	633.69

27	(a) Return on equity – post tax (admitted by CERC upto 2009) and Pre Tax post 2009								
28	Absolute value	(Rs. Crore)	123.04	140.42	166.12	180.46	176.61	179.85	181.44
29	Rate	(%)	20.34	20.34	20.34	20.40	19.39	19.39	19.39
30	(b) interest on Loan								
31	Absolute value	(Rs. Crore)	107.85	112.36	115.71	122.04	123.41	115.58	103.39
32	Rate – Weighted Average Rate	(%)	7.94	7.77	7.19	7.53	7.76	7.91	7.89
33	(c) Depreciation (finally allowed by CERC)								
34	Absolute value	(Rs. Crore)	104.86	120.12	142.39	154.21	166.39	169.45	170.98
35	AAD								
36	Rate	(%)	•		5.24	5.24	5.48	5.48	5.48
37	(d) Interest on working Capital	` '							
38	Absolute value	(Rs. Crore)	44.01	45.85	48.09	49.21	31.93	32.18	32.31
39	Rate	(%)	13.50	13.50	13.50	13.50	12.05	12.05	12.05
40	(e) Operation and maintenance cost (finally admitted by CERC)	` ,							
41	Absolute value	(Rs. Crore)	81.21	94.29	99.21	105.23	135.80	140.84	146.09
42	Rate	(%)							
43	(f) Compensation Allowances	(Rs. Crore)	•	•		l - 4 A l' l- l -	•	•	
44	(g) Special Allowance	(Rs. Crore)			IN	lot Applicable			
45	h) Supplementary Tariff - Emission Control	,							
46	Absolute value	(Rs. Crore)	·	<u> </u>			<u> </u>	<u> </u>	
47	Rate	(%)			IN	lot Applicable			
48	i) Ash Utilisation Expenses *	(Rs. Crore)						20.71	58.73
49	ÁFC	(Rs./ kWh)	1.31	1.46	1.65	1.76	1.77	1.77	1.77
50	Energy Charge	(Rs./kWh)	1.50	1.69	1.45	1.51	1.70	1.60	1.57
51	Supplemental Energy Charges - Emission Control	(Rs./kWh)			0.02	0.02	0.02	0.02	0.02
52	Total tariff	(Rs. kWh)	2.81	3.15	3.12	3.29	3.49	3.39	3.36
53	Revenue realisation before tax	(Rs. Crore)							
54	Revenue realisation after tax	(Rs. Crore)							
55	Profit/ loss *	(Rs. Crore)	1,374.66	1,451.98	1,432.18	1,640.02	1,690.03	1,473.42	2,157.14
	DSM Generation	(MU)	28.61	7.54	25.84	26.21	7.79	41.93	9.77
57	DSM Rate	(Rs/kWh)							
58	Revenue from DSM	(Rs. Crore)	(6.00)	(9.12)	(14.85)	(11.79)	(10.35)	(17.28)	(10.86)
59	Compensation received for operation below NAPAF	(Rs. Crore)	\/	(/	-	-	-	-	-
60	Part load Compensation received from beneficiriaes	(Rs. Crore)			-	-	-	-	-
61	Amount received from SCED	(Rs Crore)	-	-	NA	NA	5.19	1.30	0.56

- ** GCV of coal as received minus 85 kCal/Kg
 ^ Additional data related to Loading factor (%) submitted

* For entire Vindhyachal Station

DSM Revenue (-)Received / (+) Paid

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

DETAILS OF EMISSION CONTROL SYSTEM

Generating company: NTPC Limited

Name of Generating station: Vindhyachal super thermal power station, stage-1

Installed Capacity (MW) :1260MW (210MW X 6)

Type of Emission Control System: FGD not yet operational

Under Operation/Anticipated Operation Date: FY 24-25

S.No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
A							
1	Gross Generation	MU	9,757.66	9,700.68	9,281.55	9,728.74	9,783.63
2	Auxiliary Consumption - emission control	MU	NA	NA	NA	NA	NA
	Auxiliary Consumption - emission control	%	NA	NA	NA	NA	NA
3	Auxiliary Consumption (Normative)	%	NA	NA	NA	NA	NA
4	Hours of Operation	Hrs	NA	NA	NA	NA	NA
5	O&M Expenses (Actual) with Breakup as per	Rs. Crore	NA	NA	NA	NA	NA
6	Other maintenace spares consumed^	Rs. Crore	NA	NA	NA	NA	NA
7	Initial Spares consumed*	Rs. Crore	NA	NA	NA	NA	NA

Pls. Note: Where the system is yet not operational guaranteed parameter along with spares cost as per awarded contract to be furnished

S.No.	Particulars	Units	2017	-18	2013	8-19	2019	-20	2020-	-21	202	21-22
			Investment	Approved								
			Approval		Approval		Approval		Approval		Approval	
1	Capital Cost of Emission Control System											
1.1	Hard Cost incl GST *	Rs. Crore										1,286.59
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										86.09
1.3	IEDC *	Rs. Crore										38.60
1.4	Others. Pls specify	Rs. Crore	•	•		•	•	•	•			•
1.4	Completed Cost as per Investment Approval*	Rs. Crore										1,411.28

^{*} Total Cost of FGD of Vindhyachal Stage I (1260 MW) & Vindhyachal Stage 2 (1000 MW)

^{*} Not part of O&M expenses and Pls specify list of the same

DETAILS OF EMISSION CONTROL SYSTEM

Generating company: NTPC Ltd

Name of Generating station:Vindhyachal super thermal power station,Stage-2

Installed Capacity (MW):1000 MW (500 MW X 2)

Type of Emission Control System: FGD not yet operational

Under Operation/Anticipated Operation Date: FY 24-25

S.No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
A							
1	Gross Generation	MU	7,812.11	7,771.67	6,917.96	7,604.70	7,174.47
2	Auxiliary Consumption - emission control	MU	NA	NA	NA	NA	NA
	Auxiliary Consumption - emission control	%	NA	NA	NA	NA	NA
3	Auxiliary Consumption (Normative)	%	NA	NA	NA	NA	NA
4	Hours of Operation	Hrs	NA	NA	NA	NA	NA
5	O&M Expenses (Actual) with Breakup as per	Rs. Crore	NA	NA	NA	NA	NA
6	Other maintenace spares consumed^	Rs. Crore	NA	NA	NA	NA	NA
7	Initial Spares consumed*	Rs. Crore	NA	NA	NA	NA	NA
	_						

Pls. Note: Where the system is yet not operational guaranteed parameter along with spares cost as per awarded contract to be furnished

S.No.	Particulars	Units	2017	2017-18 2018-19 2019-20 2020-21						202	21-22	
			Investment	Approved	Investment	Approved	Investment	Approved	Investment	Approved	Investment	Approved
			Approval		Approval		Approval		Approval		Approval	
1	Capital Cost of Emission Control System											
1.1	Hard Cost incl GST *	Rs. Crore										1,286.59
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										86.09
1.3	IEDC *	Rs. Crore										38.60
1.4	Others. Pls specify	Rs. Crore	•	•	•		•	•			•	·
1.4	Completed Cost as per Investment Approval*	Rs. Crore										1,411.28

^{*} Total Cost of FGD of Vindhyachal Stage I (1260 MW) & Vindhyachal Stage 2 (1000 MW)

^{*} Not part of O&M expenses and Pls specify list of the same

DETAILS OF EMISSION CONTROL SYSTEM

Generating company: NTPC Ltd

Name of Generating station:Vindhyachal super thermal power station,Stage-3

Installed Capacity (MW):1000 MW (500 MW X 2)

Type of Emission Control System: FGD not yet operational

Under Operation/Anticipated Operation Date: FY 24-25

S.No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
A							
1	Gross Generation	MU	8,025.17	7,991.61	7,518.16	8,246.34	7,393.78
2	Auxiliary Consumption - emission control	MU	NA	NA	NA	NA	NA
	Auxiliary Consumption - emission control	%	NA	NA	NA	NA	NA
3	Auxiliary Consumption (Normative)	%	NA	NA	NA	NA	NA
4	Hours of Operation	Hrs	NA	NA	NA	NA	NA
5	O&M Expenses (Actual) with Breakup as per	Rs. Crore	NA	NA	NA	NA	NA
6	Other maintenace spares consumed^	Rs. Crore	NA	NA	NA	NA	NA
7	Initial Spares consumed*	Rs. Crore	NA	NA	NA	NA	NA
	_						

Pls. Note: Where the system is yet not operational guaranteed parameter along with spares cost as per awarded contract to be furnished

S.No.	Particulars	Units	2017-	-18	2018	3-19	2019	-20	2020-	21	202	21-22
			Investment	Approved								
			Approval		Approval		Approval		Approval		Approval	
1	Capital Cost of Emission Control System											
1.1	Hard Cost incl GST *	Rs. Crore										950.51
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										59.96
1.3	IEDC *	Rs. Crore										28.52
1.4	Others. Pls specify	Rs. Crore		•			•	•			•	
1.4	Completed Cost as per Investment Approval*	Rs. Crore										1,038.99

^{*} Total Cost of FGD of Vindhyachal Stage 3 (1000 MW) & Vindhyachal Stage 4 (1000 MW)

^{*} Not part of O&M expenses and Pls specify list of the same

DETAILS OF EMISSION CONTROL SYSTEM

Generating company: NTPC Ltd

Name of Generating station: Vindhyachal super thermal power station, Stage-4

Installed Capacity (MW) :1000 MW (500 MW X 2)

Type of Emission Control System: FGD not yet operational

Under Operation/Anticipated Operation Date: FY 24-25

S.No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
A							
1	Gross Generation	MU	7,778.36	8,200.02	7,856.45	7,433.59	7,714.51
2	Auxiliary Consumption - emission control	MU	NA	NA	NA	NA	NA
	Auxiliary Consumption - emission control	%	NA	NA	NA	NA	NA
3	Auxiliary Consumption (Normative)	%	NA	NA	NA	NA	NA
4	Hours of Operation	Hrs	NA	NA	NA	NA	NA
5	O&M Expenses (Actual) with Breakup as per	Rs. Crore	NA	NA	NA	NA	NA
6	Other maintenace spares consumed^	Rs. Crore	NA	NA	NA	NA	NA
7	Initial Spares consumed*	Rs. Crore	NA	NA	NA	NA	NA

Pls. Note: Where the system is yet not operational guaranteed parameter along with spares cost as per awarded contract to be furnished

S.No.	Particulars	Units	2017-	-18	2013	8-19	2019	-20	2020-	-21	202	21-22
			Investment	Approved								
			Approval		Approval		Approval		Approval		Approval	
1	Capital Cost of Emission Control System											
1.1	Hard Cost incl GST *	Rs. Crore										950.51
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										59.96
1.3	IEDC *	Rs. Crore										28.52
1.4	Others. Pls specify	Rs. Crore				•	•	•	•		•	
1.4	Completed Cost as per Investment Approval*	Rs. Crore										1,038.99

^{*} Total Cost of FGD of Vindhyachal Stage 3 (1000 MW) & Vindhyachal Stage 4 (1000 MW)

^{*} Not part of O&M expenses and Pls specify list of the same

Generating company: NTPC Limited

Name of Generating station: Vindhyachal super thermal power station, stage-1

Installed Capacity (MW) :1260MW (210MW X 6)

S.No.	Particulars	Unit	2017-18	2018-19	2019-20	2020-21	2021-22	
A.								
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.								
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	9,757.66	9,700.68	9,281.55	9,728.74	9,783.63	
12	Fuel Type (coal/lignite)				Coal			
13	Sulphur content of Fuel	%	0.38	0.39	0.37	0.39	0.37	
14	Gross SHR	kCal/kWh						
15	Design SO2 removal efficiency (Applicable for Wet FGD)	%	SO2 Efficiency guaranty is taken considering applicable New Environmental norm of that plant.					
16	SO2 removal norm (100/200/600 mg/Nm3)	mg/Nm3	600	600	600	600	600	
17	Weigthed Average Gross GCV of Fuel Received	kCal/kg		A	s per Annexure	e I		

Generating company: NTPC Limited

Name of Generating station: Vindhyachal super thermal power station, stage-2

Installed Capacity (MW) :1000MW (500MW X 2)

S.No.	Particulars	Unit	2017-18	2018-19	2019-20	2020-21	2021-22	
A.								
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.								
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	7,812.11	7,771.67	6,917.96	7,604.70	7,174.47	
12	Fuel Type (coal/lignite)				Coal			
13	Sulphur content of Fuel	%	0.38	0.39	0.37	0.39	0.37	
14	Gross SHR	kCal/kWh						
15	Design SO2 removal efficiency (Applicable for Wet FGD)	%	SO2 Efficiency guaranty is taken considering applicable New Environmental norm of that plant.					
16	SO2 removal norm (100/200/600 mg/Nm3)	mg/Nm3	600	600	600	600	600	
17	Weigthed Average Gross GCV of Fuel Received	kCal/kg		A	s per Annexure	I		

Generating company: NTPC Limited

Name of Generating station: Vindhyachal super thermal power station, Stage-3

Installed Capacity (MW) :1000MW (500MW X 2)

S.No.	Particulars	Unit	2017-18	2018-19	2019-20	2020-21	2021-22	
A.								
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.								
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	8,025.17	7,991.61	7,518.16	8,246.34	7,393.78	
12	Fuel Type (coal/lignite)				Coal			
13	Sulphur content of Fuel	%	0.38	0.39	0.37	0.39	0.37	
14	Gross SHR	kCal/kWh						
15	Design SO2 removal efficiency (Applicable for Wet FGD)	%	SO2 Efficiency guaranty is taken considering applicable New Environmental norm of that plant.					
16	SO2 removal norm (100/200/600 mg/Nm3)	mg/Nm3	200	200	200	200	200	
17	Weigthed Average Gross GCV of Fuel Received	kCal/kg	_	A	s per Annexure	I		

Generating company: NTPC Limited

Name of Generating station: Vindhyachal super thermal power station, Stage-4

Installed Capacity (MW) :1000MW (500MW X 2)

S.No.	Particulars	Unit	2017-18	2018-19	2019-20	2020-21	2021-22	
A.								
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.								
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	7,778	8,200	7,856	7,434	7,715	
12	Fuel Type (coal/lignite)				Coal			
13	Sulphur content of Fuel	%	0.38	0.39	0.37	0.39	0.37	
14	Gross SHR	kCal/kWh						
15	Design SO2 removal efficiency (Applicable for Wet FGD)	%	SO2 Efficiency guaranty is taken considering applicable New Environmental norm of that plant.					
16	SO2 removal norm (100/200/600 mg/Nm3)	mg/Nm3	200	200	200	200	200	
17	Weigthed Average Gross GCV of Fuel Received	kCal/kg		A	s per Annexure	I		