

Pro-forma for furnishing Actual annual performance/operational data for the Gas/Liquid Fuel based thermal generating stations for the 5 year period from 2017-							
S.N	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
1	Name of Company		NTPC Ltd.				
2	Name of Station		Jhanor Gandhar Gas Power Project				
3	Installed Capacity and Configuration	MW	Gas Turbine-144.3x3 + Steam Turbine-224.49x1 = 657.39				
	Stage		I				
3.1	Date of Commercial Operation - Unit Wise		Unit-1: 01.03.1995, Unit-2: 01.07.1995, Unit-3: 01.03.1995, Unit-4: 01.11.1995				
3.2	Effective COD		01.11.1995				
4	Make of Turbine		ABB GT13 E1				
5	Rated Steam Parameters		Steam Pressure=66.49 bar, Steam temperature = 501.8°C				
6	Average site ambient conditions						
7	Any other Site specific feature						
8	<b>Fuels :</b>						
8.1	Main/Primary Fuel		Natural Gas/RLNG				
8.1.1	Annual Allocation/ Requirement(MMSCMD)	<b>Domestic gas</b>	1.75	1.01	0.37	0.55	0.10
		<b>RLNG</b>	1.28	2.11	3.04	2.25	1.52
		<b>Total</b>	3.03	3.12	3.41	2.80	1.62
8.1.2	Sources of supply		GAIL , GSPCL,SHELL,BPCL, HPCL				
8.1.3	Transportation Distance of the station from the Sources of supply	KM	100 (GAIL HVJ pipeline Zone-1, GSPL HP Pipeline )				
8.1.4	Mode of Transport		Pipeline network for gas stations				
8.2	<b>Alternate Fuel :</b>		No alternate fuel firing facility is available				
8.2.1	Annual Allocation/ Requirement	Million Cubic meter or MT or Kilo Litre	Not Applicable				
8.2.2	Sources of supply		Not Applicable				
8.2.3	Transportation Distance of the station from the Sources	KM	Not Applicable				
8.2.4	Mode of Transport		Not Applicable				
8.2.5	Maximum Station capability to stock secondary fuels	KL	Not Applicable				
9	<b>Cost of Spares :</b>						
9.1	Cost of Spares capitalized in the books	(Rs. Lakhs)	-	-	-	-	-
9.2	Cost of spares included in capital cost for the purpose of tariff	(Rs. Lakhs)	-	-	-	-	-
10	<b>Generation :</b>						
10.1	Actual Gross Generation at generator terminals	MU	3,112.25	1,573.91	436.55	829.48	395.91
10.1.1	<b>Total</b>	MU	3,112.25	1,573.91	436.55	829.48	395.91
10.1.2	On Gas	MU	3,112.25	1,573.91	436.55	829.48	395.91
10.1.3	On Naphtha or any other liquid fuel	MU	NA	NA	NA	NA	NA
10.2	-Actual Net Generation Ex-bus	MU	3,031.41	1,527.26	415.78	793.23	376.20
10.3	-Scheduled Generation Ex-bus	MU	3,052.27	1,547.41	437.96	810.16	508.28
11	Average Declared Capacity (DC)	MW	584.93	548.96	611.56	598.21	550.81
12	Actual Auxiliary Energy Consumption excluding colony consumption & agency power	MU	78.69	44.74	19.03	35.71	18.02

13	Actual Energy supplied to Colony from the station and Agency Power	MU	2.14	1.91	1.73	1.86	1.74
14	<b>Main/Primary Fuel :</b>						
14.1	<b>Consumption</b>	MSCM	690.37	388.64	109.45	187.59	98.84
14.1.1	Natural Gas	APM Gas	56,80,32,156.00	32,83,85,294.00	8,43,92,321.00	15,91,10,243.00	2,51,36,780.00
		Non-APM Gas	6,70,15,289.00	2,56,00,403.00	88,04,531.00	1,20,81,042.00	1,23,24,854.00
14.1.2	RLNG	SCM	5,53,25,759.00	3,46,49,755.00	1,62,51,968.00	1,64,02,499.00	6,13,82,124.00
14.1.3	Liquid Fuel	KL	-	-	-	-	-
14.2	<b>Weighted Gross Calorific Value (GCV)</b>						
14.2.1	Natural Gas (as received)	kCal/SCM	9,384.64	9,445.22	9,457.12	9,437.82	9,361.69
14.2.2	RLNG (as received)	kCal/SCM					
14.2.3	Liquid fuel (as received)	kCal/Lt.	NA	NA	NA	NA	NA
14.3	<b>Weighted Average Landed Price</b>	Rs. /1000 SCM	<b>15.22</b>	<b>18.62</b>	<b>18.76</b>	<b>13.78</b>	<b>35.82</b>
14.3.1	APM Gas	Rs. /1000 SCM	8.64	11.01	12.06	8.23	6.95
14.3.2	Non-APM Gas	Rs. /1000 SCM	9.91	11.83	12.40	9.19	62.44
14.3.3	RLNG	Rs. /1000 SCM	27.12	33.02	31.83	23.92	38.07
14.3.4	Liquid Fuel	Rs./KL	NA	NA	NA	NA	NA
14.4	<b>Percentage of Declared Capacity</b>						
14.4.1	APM Gas	%	58.55	31.57	11.13	15.58	3.44
14.4.2	Non-APM Gas	%					
14.4.3	RLNG	%	41.45	68.43	88.87	84.42	96.56
14.4.4	Liquid Fuel	%	-	-	-	-	-
14.5	<b>Actual Average stock maintained for liquid fuel</b>	(KL)	-	-	-	-	-
15	<b>Alternate Fuel : RLNG/Liquid</b>						
15.1	Consumption	KL/SCM	RLNG Consumption Mentioned above, Liquid Fuel not applicable				
	Weighted Average Gross Calorific value (As received)	(kCal /Lt. or SCM)					
15.3	Weighted Average Landed Price	(Rs per KL/SCM)	NA	NA	NA	NA	NA
15.4	Actual Average stock maintained	KL	NA	NA	NA	NA	NA
16	<b>Weighted average duration of outages( Unit-wise details)</b>						
16.1	Planned Outages	(Days)	16.23	39.37	8.02	13.06	0.29
16.2	Forced Outages	(Days)	1.02	4.21	5.19	0.52	1.58
16.3	Number of tripping	Nos.	19.00	6.00	2.00	10.00	8.00
16.4	Number of start-ups	Nos.	52.00	85.00	225.00	54.00	221.00
16.4.1	Cold Start-up(Steam Turbine)	Nos.	45.00	84.00	221.00	44.00	216.00
16.4.2	Warm Start-up(Steam Turbine)	Nos.	-	-	2.00	2.00	2.00
16.4.3	Hot start-up(Steam Turbine)	Nos.	7.00	1.00	2.00	8.00	3.00
17	Cost of spares consumed	Rs. Lakhs	402.97	592.69	387.25	482.26	269.22
18	Average stock of spares	Rs. Lakhs	4,244.58	4,116.51	4,313.93	4,597.50	4,868.35

			<b>Details as per Annexure - A (Emission Data)</b>				
19.	NOx and other particulate matter						
19.1	Design value	mg/Nm <sup>3</sup>					
19.2	Actual emission	mg/Nm <sup>3</sup>					
20	Number of employees deployed in						
20.1	- Executive	Nos.	55.00	42.00	42.00	37.00	36.00
20.2	- Non Executive	Nos.	74.00	71.00	64.00	64.00	62.00
20.3	Corporate Office	Nos.	2,568.00	2,241.00	2,016.00	1,815.00	1,728.00
21	Man-MW ratio	Man/MW	0.20	0.17	0.16	0.15	0.15

## DETAILS OF WATER CHARGES

Name of the Company:

NTPC Ltd

Name of the Power Station and Stage/Phase:

Jhanor Gandhar Gas Power Project

(Rs. In Lakhs)

Sl.No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
<b>(A)</b>	<b>Plant</b>					
1	Type of Plant	Gas Based Combined Cycle Power Plant				
2	Type of Cooling Tower	IDCT (Induced Draft Cooling Tower)				
3	Type of Cooling Water System	Closed Cycle				
4	Any Special Features which may increase/reduce water consumption					
<b>(B)</b>	<b>Quantum of Water :</b>					
5	Contracted Quantum	62,05,000	62,05,000	62,05,000	62,05,000	62,05,000
6	Allocation of Water	58,40,000	25,55,000	27,05,900	30,79,500	21,90,000
7	Actual water Consumption	59,89,118	20,83,954	10,06,111	21,01,034	11,02,650
8.	Rate of Water Charges (Rs/m3)	23.57	25.94	28.53	31.38	34.52
9	Other charges/Fees , if paid as part of Water Charges					
10	<b>Total water Charges Paid</b>	1,404.08	534.31	304.54	666.33	370.52

## DETAILS OF OPERATIONS AND MAINTENANCE EXPENSES

Name of the Company:  
Name of the Power Station

NTPC Ltd  
Jhanor Gandhar Gas Power Project (657.39 MW)

(Rs. In Lakhs)

Sl. No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
(A)	Details of Capital Spares in opening Stock	476.92	829.83	821.78	3,143.42	8,801.61
(B)	Details of Capital Spares procured during the year	526.92	189.41	2,533.80	5,790.49	8,811.95
(C)	Details of capital spares consumed during the year	174.00	197.46	212.16	132.31	-
(D)	Details of capital spares closing at the end of the	829.83	821.78	3,143.42	8,801.61	17,613.56



## Annexure VI (D)

Gandhar Gas Power Station  
Capital Spares Procurement

Fiscal Year	Asset	Sub-number	Asset Description	Amount (Rs)
2017	103500026473	0	NUMERICAL XFMR DIFFERENTIAL RELAY 1A	2,58,887.00
2017	103500026474	0	CURRENT TRANSFORMER,420KV,2000A,5 CORE.	7,91,300.00
2017	103500026475	0	CURRENT TRANSFORMER,420KV,2000A,5 CORE.	7,91,300.00
2017	103500026517	0	ACTUATOR WITH GEAR BOX ACTR SA40.1,AUMA	15,64,171.00
2017	103500026518	0	13E1:GEARBOX COMBINATION KLOSE	15,64,171.00
2017	103500026773	0	FLEX ARRENG FOR GT AND TERMINATION IPBD	17,91,782.39
2017	103500026774	0	PROCESSOR MODULE:70PR05B-ES, MAKE: ABB	13,59,561.60
2017	103500026775	0	PROCESSOR MODULE:70PR05B-ES, MAKE: ABB	13,59,561.59
2017	103500026795	0	PROCESSOR MODULE:70PR05B-ES, MAKE: ABB	11,63,813.55
2017	103500026796	0	PROCESSOR MODULE:70PR05B-ES, MAKE: ABB	11,63,813.55
2017	103500026839	0	145KV, 800A LINE AND BUSHING	5,19,144.00
2017	103500026842	0	VALVE STEM NA64-350-11G /002 ST LP BP SV	8,82,460.00
2017	103500026843	0	VALVE STEM NB64-50-A6 /002 LP BP WI CV	8,82,460.00
2017	103500027118	0	SNDAT210R40:PUMP ASSEMBLY	19,11,731.00
2017	103500027123	0	DKZ2-2N41:DIFFUSER	93,02,219.00
2017	103500027125	0	ACTUATOR ASSY;1 1/2";FISHER#667-45"	7,53,504.00
2017	103500027142	0	O/H KIT FOR 21KV SF6 GCB HEK3	36,47,734.00
2017	103500027254	0	SERVO VALVE ST10-65/R6Z FOR BP	7,28,973.00
2017	103500027270	0	MHB6/5:DIAPHRAGM COUPLING	6,03,194.00
2017	103500027271	0	DKZ2-2N41:COMPENSATOR, COMPLETE	11,86,287.57
2017	103500028171	0	TS-50 COUPLER CARD FOR POS30	27,77,387.47
2017	103500028172	0	CONTACT RESISTANCE MEASUREMENT KIT	3,01,157.00
2017	103500033582	0	CONTROL LOGIX PROCESSOR,CAT NO.:1756-L61	7,02,415.00
2017	103500033583	0	CONTROL LOGIX PROCESSOR,CAT NO.:1756-L61	7,02,415.00
2017	103500033584	0	DKZ2-2N41:GUIDE BUSH	7,79,224.75
2017	103500033585	0	DKZ2-2N41:GUIDE BUSH	7,79,224.75
2017	103500033586	0	DKZ2-2N41:GUIDE BUSH	7,79,224.75
2017	103500033587	0	DKZ2-2N41:GUIDE BUSH	7,79,224.75
2017	103500033588	0	LUB OIL FILTER HOUSING MAV23AT001	18,58,128.00
2017	103500034753	0	STATION BUS CABINET:89MS02, PROCNTRL-ABB	86,79,095.47
2017	103500034754	0	PRE TRANS FOR OF GT .0 to 50 BAR	42,244.00
2017	103500034755	0	PRE TRANS FOR OF GT .0 to 50 BAR	42,244.00
2017	103500034756	0	TRANSDUCER 160-1600 MBAR	45,430.00
2017	103500034757	0	COMPRESSOR+AIR DRYING UNIT	8,44,880.00
2017	103500037944	0	CONTROL OUTPUT MODULE:BSJ-310, AUTRONICA	10,189.80
2017	103500038045	0	HV CONDENSER BUSHG CGL:160MVA,230/15.75KV	6,71,525.00
2017	103500038047	0	HV CONDENSER BUSHG CGL:160MVA,230/15.75KV	6,71,525.00
2018	103500028232	0	Gas Turbine Water Injection Control Valve	45,13,352.55
2018	103500039237	0	LV BSHNG WTH METL PRT 160MVA GT TELK	8,81,225.00
2018	103500039238	0	LV BSHNG WTH METL PRT 160MVA GT TELK	8,81,225.00
2018	103500039239	0	LV BSHNG WTH METL PRT 160MVA GT TELK	8,81,225.00
2018	103500039253	0	Fan Blade assembly for ST Cooling Tower.Part No.10	7,65,584.00
2018	103500039254	0	Fan Blade assembly for ST Cooling Tower.Part No.10	7,65,584.00
2018	103500039258	0	FISHER:8"EHD:PLUG & STEM ASSEMBLY: Part No:- 39J84	3,59,926.00
2018	103500039259	0	FISHER:8"EHD:PLUG & STEM ASSEMBLY: Part No:- 39J84	3,59,926.00
2018	103500039260	0	FISHER:8"EHD:PLUG & STEM ASSEMBLY: Part No:- 39J84	3,59,926.00
2018	103500039261	0	FISHER:4"EHD:SPARE : PLUG & STEM ASSEMBLY Part No	3,46,543.50
2018	103500039262	0	FISHER:4"EHD:SPARE : PLUG & STEM ASSEMBLY Part No	3,46,543.50
2018	103500039295	0	FIRE DETECTION SYSTEM WITH CTRL PNL&INST	6,78,602.92
2018	103500039431	0	Pneumatic Actuator For De-superheater Valve	8,12,783.00
2018	103500039432	0	Pneumatic Actuator for HP FRS Control Valve	8,89,932.00
2018	103500043756	0	IAC/PAC compressors	34,60,019.00
2018	103500043757	0	IAC/PAC compressors	26,38,116.00
2019	103500028232	0	Gas Turbine Water Injection Control Valve	-5,54,933.25
2019	103500046416	0	Procurement of Spares for Fire System Pumps for NT	9,84,670.00
2019	103500046419	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,42,825.48
2019	103500046420	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046421	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046422	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046423	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046424	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046425	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34

2019	103500046426	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046427	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046428	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046429	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046430	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046431	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046432	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046433	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046434	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046435	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046436	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046437	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046438	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046439	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046440	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046441	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046442	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046443	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046444	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046445	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046446	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046447	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046448	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046449	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046450	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046451	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046452	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046453	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046454	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046455	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046456	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046457	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046458	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046459	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046460	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046461	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046462	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046463	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046464	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046465	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046466	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046467	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.34
2019	103500046468	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	41,32,292.20
2019	103500048422	0	245KV Bushings for 167MVA Inter Connecting Transf	8,02,400.00
2019	103500048425	0	Spares for Torishima make Pump	3,05,219.00
2019	103500052550	0	220KV CapacitiveVoltage Transformer for switchyard	2,46,048.44
2019	103500052551	0	220KV CapacitiveVoltage Transformer for switchyard	2,46,048.44
2019	103500052552	0	220KV CapacitiveVoltage Transformer for switchyard	2,46,048.44
2019	103500052553	0	400KV CapacitiveVoltage Transformer for switchyard	3,66,708.39
2019	103500052554	0	400KV CapacitiveVoltage Transformer for switchyard	3,66,708.39
2019	103500052555	0	400KV CapacitiveVoltage Transformer for switchyard	3,66,708.38
2019	103500052556	0	Hardware & Modules for CBA01 Panel	1,04,62,592.87
2019	103500052557	0	Hardware & Modules for CBA01 Panel	1,04,48,378.87
2019	103500052558	0	GT EHC and Position Feedback Sensor	38,22,271.71
2019	103500052559	0	GT EHC and Position Feedback Sensor	10,30,071.60
2019	103500052560	0	GT EHC and Position Feedback Sensor	10,30,071.60
2019	103500052561	0	GT EHC and Position Feedback Sensor	10,30,071.59
2019	103500052562	0	Solenoid Valve for BFP Circulation Valves.	28,887.50
2019	103500052563	0	Solenoid Valve for BFP Circulation Valves.	28,887.50
2019	103500061991	0	6.6 KV SF6 circuit breaker ABB make	4,54,300.00
2019	103500061992	0	6.6 KV SF6 circuit breaker ABB make	4,54,300.00
2019	103500061993	0	6.6 KV SF6 circuit breaker ABB make	4,54,300.00
2019	103500061994	0	6.6 KV SF6 circuit breaker ABB make	4,54,300.00
2019	103500061995	0	6.6 KV SF6 circuit breaker ABB make	4,54,300.00
2019	103500061996	0	6.6 KV SF6 circuit breaker ABB make	4,54,300.00
2019	103500061997	0	HP stop valve actuator HTGD342679 & HTGD342554	90,87,258.25
2019	103500061998	0	84848-4.0-20B:FAN BLADE ASSY	9,13,860.00

2019	103500061999	0	84848-4.0-20B:FAN BLADE ASSY	9,13,860.00
2019	103500062000	0	OIL SAMPLE PARTICLE COUNTER: 2-150MICRON	9,72,320.00
2019	103500062001	0	DEGASED CATION CONDUCTIVITY ANALYSERS. 126/415	8,85,000.00
2020	103500014709	0	BATTERY CHARGER: 3PH, 220V, 1350 A	-1,58,315.00
2020	103500046417	0	fire hydrant complete pump assembly Pump	16,52,001.00
2020	103500067145	0	TURBINE VANE ROW-5 & BLOW OFF VALVE OF GE 13E1	1,18,81,250.89
2020	103500068521	0	48 V 100 AH chargers for PLCC Battery bank	3,16,987.50
2020	103500068522	0	48 V 100 AH chargers for PLCC Battery bank	3,16,987.50
2020	103500068523	0	11KV VACUUM CIRCUIT BREAKER FOR GT STARTING DEVICE	19,97,876.88
2020	103500068524	0	Procurement of Sodium Analyzer for NTPC Jhanor.	5,90,000.00
2020	103500068525	0	Procurement of Sodium Analyzer for NTPC Jhanor.	6,13,600.00
2020	103500068526	0	SUPPLY OF GAS TURBINE MXL-1/5 VARIANT COMPONENTS	15,95,42,146.16
2020	103500068527	0	SUPPLY OF GAS TURBINE MXL-1/5 VARIANT COMPONENTS	3,84,83,776.67
2020	103500068528	0	SUPPLY OF GAS TURBINE MXL-1/5 VARIANT COMPONENTS	2,57,80,855.34
2020	103500068529	0	SUPPLY OF GAS TURBINE MXL-1/5 VARIANT COMPONENTS	18,53,39,259.60
2020	103500068530	0	CEP and CW Pumps for NTPC Jhanor	8,28,919.00
2020	103500068531	0	CEP and CW Pumps for NTPC Jhanor	7,65,730.50
2020	103500068532	0	CEP and CW Pumps for NTPC Jhanor	7,65,730.50
2020	103500068533	0	CEP and CW Pumps for NTPC Jhanor	9,05,829.25
2020	103500068534	0	CEP and CW Pumps for NTPC Jhanor	9,05,829.25
2020	103500068535	0	CEP and CW Pumps for NTPC Jhanor	9,05,829.25
2020	103500068536	0	CEP and CW Pumps for NTPC Jhanor	9,05,829.25
2020	103500068537	0	GRP and DVR spare cards at NTPC Jhanor	10,60,900.41
2020	103500068538	0	GRP and DVR spare cards at NTPC Jhanor	9,89,660.39
2020	103500068539	0	GRP and DVR spare cards at NTPC Jhanor	5,13,184.20
2020	103500071040	0	84848-4.0-20B:PVC FILL PACK	15,23,418.70
2020	103500071041	0	84848-4.0-20B:PVC FILL PACK	15,23,418.70
2020	103500071042	0	84848-4.0-20B:PVC FILL PACK	15,23,418.70
2020	103500071043	0	84848-4.0-20B:PVC FILL PACK	15,23,418.70
2020	103500071044	0	84848-4.0-20B:PVC FILL PACK	15,23,418.68
2020	103500071045	0	Supply of Gas Turbine Finned Segment End Piece	6,39,613.49
2020	103500071046	0	Supply of Gas Turbine Finned Segment End Piece	6,39,613.49
2020	103500071047	0	Supply of Gas Turbine Finned Segment End Piece	6,39,613.50
2020	103500071048	0	Supply of Gas Turbine Finned Segment End Piece	6,35,695.16
2020	103500071049	0	Supply of Gas Turbine Finned Segment End Piece	6,35,695.16
2020	103500071050	0	Supply of Gas Turbine Finned Segment End Piece	6,35,695.16
2020	103500071051	0	Supply of Gas Turbine Finned Segment End Piece	3,95,615.49
2020	103500071052	0	Supply of Gas Turbine Finned Segment End Piece	3,95,615.49
2020	103500071053	0	Supply of Gas Turbine Finned Segment End Piece	3,95,615.48
2020	103500071054	0	Supply of Gas Turbine Finned Segment End Piece	4,94,068.35
2020	103500071055	0	Supply of Gas Turbine Finned Segment End Piece	4,94,068.35
2020	103500071056	0	Supply of Gas Turbine Finned Segment End Piece	4,94,068.35
2020	103500071057	0	Supply of Gas Turbine Finned Segment End Piece	4,94,068.33
2020	103500071058	0	Supply of Gas Turbine Finned Segment End Piece	4,94,068.33
2020	103500071059	0	Supply of Gas Turbine Finned Segment End Piece	4,94,068.33
2020	103500071060	0	Supply of Gas Turbine Finned Segment End Piece	4,94,068.33
2020	103500071061	0	Supply of Gas Turbine Finned Segment End Piece	4,94,068.33
2020	103500071062	0	Supply of Gas Turbine Finned Segment End Piece	4,94,068.45
2020	103500071063	0	Procurement of Sodium Analyzer for NTPC Jhanor.	5,20,026.00
2020	103500071064	0	Dynamic contact resistance meter al	24,13,100.00
2020	103500071065	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071066	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071067	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071068	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071069	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071070	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071071	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071072	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071073	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071074	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071075	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071076	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071077	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071078	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071079	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071080	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79
2020	103500071081	0	Supply of Gas Turbine Inlet Segment (GT-13E1)	49,97,439.79





2021	103500080920	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080921	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080922	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080923	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080924	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080925	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080926	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080927	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080928	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080929	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080930	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080931	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080932	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080933	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080934	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080935	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080936	0	Gas Turbine (13E1) Rotor Blade	28,93,070.08
2021	103500080937	0	Gas Turbine (13E1) Rotor Blade	28,93,070.13
2021	103500083042	0	POS. CONTROLLER(BBC-EHT),TYPE-LT5410 B-E	50,25,508.01
2021	103500083043	0	POS. CONTROLLER(BBC-EHT),TYPE-LT5410 B-E	50,25,508.00
2021	103500083044	0	THERMOCOUPLE INPUT MODULE:70EA05A-E,ABB	11,21,395.93
2021	103500083045	0	PROGRESS 3 TOOL SW & NECESSARY HW	56,47,382.31
2021	103500083046	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	4,43,464.96
2021	103500083047	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	4,43,464.96
2021	103500083048	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	4,43,464.96
2021	103500083049	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	4,43,464.96
2021	103500083050	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	4,43,464.95
2021	103500083051	0	HMI COUPLING MODULE: 87TS51 R1210; ABB	27,15,640.65
2021	103500083052	0	CURRENT TRANSFORMER,420KV,2000A,5 CORE.	5,92,360.00
2021	103500084132	0	RELY NUM:1A:220KV B/BR PROTCTION	38,12,580.00
2021	103500084133	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084134	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084135	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084136	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084137	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084138	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084139	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084140	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084141	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084142	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084143	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084144	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084145	0	CVT FOR 400 KV (4400 PF)	3,91,631.80
2021	103500084146	0	CVT FOR 400 KV (4400 PF)	3,91,631.93
2021	103500084147	0	CVT FOR 400 KV (4400 PF)	3,91,108.67
2021	103500084148	0	CVT FOR 400 KV (4400 PF)	3,91,108.67
2021	103500084149	0	CVT FOR 400 KV (4400 PF)	3,91,108.67
2021	103500084150	0	CVT FOR 400 KV (4400 PF)	3,91,108.66
2021	103500088217	0	50WT21E:ROTOR	42,72,82,895.89
2021	103500088218	0	COMPLETE N2 GEN SKID(PSA TYPE):10M3/HR	19,90,000.00
2021	103500088219	0	13E1:STATOR VANE STAGE 4	85,36,745.63
2021	103500088220	0	13E1:STATOR VANE STAGE 4	85,36,745.63
2021	103500088221	0	13E1:STATOR VANE STAGE 4	85,36,745.63
2021	103500088222	0	13E1:STATOR VANE STAGE 4	85,36,745.63
2021	103500088223	0	13E1:STATOR VANE STAGE 4	85,36,745.63
2021	103500088224	0	13E1:STATOR VANE STAGE 4	85,36,745.63
2021	103500088225	0	13E1:HEAT SHIELD SEGMENT STAGE 3	17,03,694.82
2021	103500088226	0	13E1:HEAT SHIELD SEGMENT STAGE 3	17,03,694.82
2021	103500088227	0	13E1:HEAT SHIELD SEGMENT STAGE 3	17,03,694.82
2021	103500088228	0	13E1:HEAT SHIELD SEGMENT STAGE 3	17,03,694.82
2021	103500088229	0	13E1:HEAT SHIELD SEGMENT STAGE 3	17,03,694.82
2021	103500088230	0	13E1:HEAT SHIELD SEGMENT STAGE 3	17,03,694.82
2021	103500088231	0	13E1:HEAT SHIELD SEGMENT STAGE 3	17,03,694.82
2021	103500088232	0	13E1:HEAT SHIELD SEGMENT STAGE 3	17,03,694.91
2022	103500083042	0	POS. CONTROLLER(BBC-EHT),TYPE-LT5410 B-E	-24,019.35
2022	103500083043	0	POS. CONTROLLER(BBC-EHT),TYPE-LT5410 B-E	-24,019.33
2022	103500083044	0	THERMOCOUPLE INPUT MODULE:70EA05A-E,ABB	-11,043.17

2022	103500083045	0	PROGRESS 3 TOOL SW & NECESSARY HW	-55,657.63
2022	103500083046	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	-4,359.31
2022	103500083047	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	-4,359.31
2022	103500083048	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	-4,359.31
2022	103500083049	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	-4,359.31
2022	103500083050	0	UNIV.INPUT MODULE: 81EU50/R1210; ABB	-4,359.30
2022	103500083051	0	HMI COUPLING MODULE: 87TS51 R1210; ABB	-26,758.67
2022	103500088217	0	50WT21E:ROTOR	-149.10
2022	103500088219	0	13E1:STATOR VANE STAGE 4	-1,87,198.29
2022	103500088220	0	13E1:STATOR VANE STAGE 4	-1,87,010.67
2022	103500088221	0	13E1:STATOR VANE STAGE 4	-1,87,010.67
2022	103500088222	0	13E1:STATOR VANE STAGE 4	-1,87,010.67
2022	103500088223	0	13E1:STATOR VANE STAGE 4	-1,87,010.67
2022	103500088224	0	13E1:STATOR VANE STAGE 4	-1,87,009.65
2022	103500088225	0	13E1:HEAT SHIELD SEGMENT STAGE 3	-53,035.90
2022	103500088226	0	13E1:HEAT SHIELD SEGMENT STAGE 3	-52,810.75
2022	103500088227	0	13E1:HEAT SHIELD SEGMENT STAGE 3	-52,810.75
2022	103500088228	0	13E1:HEAT SHIELD SEGMENT STAGE 3	-52,810.75
2022	103500088229	0	13E1:HEAT SHIELD SEGMENT STAGE 3	-52,810.75
2022	103500088230	0	13E1:HEAT SHIELD SEGMENT STAGE 3	-52,810.75
2022	103500088231	0	13E1:HEAT SHIELD SEGMENT STAGE 3	-52,810.75
2022	103500088232	0	13E1:HEAT SHIELD SEGMENT STAGE 3	-52,809.75
2022	103500089995	0	RELY NUM:1A:400KV B/BAR PROTCTION RELY:	35,40,000.00
2022	103500089996	0	C6TS:COMP ASSLY	7,00,840.00
2022	103500092932	0	13E1:GEARBOX COMBINATION KLOSE	17,88,801.00
2022	103500092933	0	SCREW COMPRESSOR(>=500 M3/HR) ASSEMBLY	30,44,400.00
2022	103500092934	0	SCREW COMPRESSOR(>=500 M3/HR) ASSEMBLY	30,44,400.00
2022	103500092935	0	GTMO65,CL300:COMPLETE ASSY:	31,07,139.00
2022	103500092936	0	GTHO125,CL1500:COMPLETE ASSY.:	28,72,863.00
2022	103500092937	0	GTMO200,CL300:COMPLETE ASSY:	53,83,783.00
2022	103500092938	0	GTGO350,CL1500:COMPLETE ASSY.:	1,71,31,010.00
2022	103500092939	0	GTMO200,CL1500:COMPLETE ASSY.:	59,19,716.00
				<b>1,83,00,81,655.63</b>

## Annexure VI (D)

**Gandhar Gas Power Station**  
**Capital Spares Consumption**

Fiscal Year	Asset	Sub-number	Asset Description	Amount (Rs)
2017	101300004951	1	GT1 CAP SPARES	1,20,10,806.40
2017	101300004952	426	ANALOG INPUT MODULE:81EU01,PROCONTRL ABB	6,71,290.33
2017	101300004954	12	ROTOR BLADE ROW # 1 HTCZ 300720P0008	2,36,822.10
2017	101300004971	66	PNEUMATIC ACTUATOR ASSEMBLY	6,99,933.00
2017	101300004980	69	13E1: GT Hydraulic Convertor	34,43,409.50
2017	103500012170	0	SOLENOID VALVE MODEL VAF 213 (FOR ETP)	2,446.40
2017	103500021266	0	MOTR IN EE415VAC:90.0KW:2P:B35,TEFC:315M	3,43,493.00
2018	101300004927	0	SWITCHYARD	3,36,510.50
2018	101300004952	0	GT1	7,82,973.00
2018	101300004953	0	ST	1,62,42,703.00
2018	101300004955	0	GT3	15,49,917.50
2018	101300004971	1	C&I SYS EQUIPMT CAP SPARES	6,01,185.33
2018	101300004977	1	C&I SYS EQUIPMNT CAP SPARES	2,32,305.75
2019	101300004927	0	SWITCHYARD	37,23,105.00
2019	101300004927	9	CURRENT TRANSFORMER,420KV,2000A,5 CORE.	7,34,025.00
2019	101300004951	1	GT1 CAP SPARES	43,16,630.00
2019	101300004952	428	INPUT MODULE-TEMP SENSORS 81ET03,P14 SYS	7,50,710.00
2019	101300004952	432	POWER SUPPLY UNIT:89NG03,24/5VDC, ABB	7,28,870.10
2019	101300004971	61	ANALOG I/P FOR 2WIRE TX 70EA02 A-E/R1	6,76,939.41
2019	101300004977	1	C&I SYS EQUIPMNT CAP SPARES	1,01,48,306.00
2019	101300004993	0	AC/FIREFIGHT EQPMT/BLACK START	78,883.00
2019	101300076985	0	RO PLANT	59,000.00
2020	101300004631	0	COMPRESSED AIR SYSTEM	49,597.83
2020	101300004927	0	SWITCHYARD	6,83,467.73
2020	101300004952	0	GT1	93,24,500.05
2020	101300004952	425	2-WIRE TEMP TRANSMITTER	10,245.00
2020	101300004953	0	ST	26,72,671.70
2020	101300004953	31	SOLENOID VALVE 220V,MAX61AA511-514,521-5	1,75,210.00
2020	101300004954	0	GT2	1,31,793.67
2020	101300004955	0	GT3	73,348.61
2020	101300004971	25	Position Transmitter P/N-39A	34,314.00
2020	101300076985	0	RO PLANT	75,759.31
2021	101300004927	0	SWITCHYARD	31,71,782.00
2021	101300004952	0	GT1	25,909.82
2021	101300004953	0	ST	19,93,017.23
2022	101300004927	0	SWITCHYARD	79,98,642.00
2022	101300004952	0	GT1	12,72,892.00
2022	101300004953	0	ST	19,90,888.00
2022	101300004954	0	GT2	88,37,050.00
2022	101300004955	0	GT3	14,64,698.00
2022	101300004993	0	AC/FIREFIGHT EQPMT/BLACK START	3,14,374.00
			<b>Grand Total</b>	<b>9,86,70,425.27</b>