

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		KAWAS GAS POWER STATION				
3	Installed Capacity and Configuration	MW	Gas Turbine- 4 x 106 + Steam Turbine - 2 x 116.1 = 656.2				
	Stage		I				
3.1	Date of Commercial Operation - Unit Wise		GT#1A- 01.06.1992 GT#1B- 01.08.1992 ST#1C- 01.11.1993 GT#2A- 01.09.1992 GT#2B- 01.11.1992 ST#2C- 01.09.1993				
3.2	Effective COD		01.09.1993				
4	Make of Turbine		GE				
5	Rated Steam Parameters		HP turbine- 520 deg c & 83 Bar LP turbine- 213 deg c & 10 Bar				
6	Average site ambient conditions		Av. Temp.26.6 deg C in 2023				
7	Any other Site specific feature						
8	Fuels :						
8.1	Main/Primary Fuel		Natural Gas/RLNG				
8.1.1	Annual Allocation/ Requirement(MMSCMD)	Domestic gas	1.24	1.35	0.77	0.63	0.04
		RLNG	1.47	1.63	2.28	0.81	1.12
		Total	2.71	2.98	3.05	1.44	1.16
8.1.2	Sources of supply		GAIL , GSPCL,SHELL,BPCL, HPCL				
8.1.3	Transportation Distance of the station from the Sources	KM	10 (GAIL HVJ pipeline Zone-1, GSPL HP Pipeline)				
8.1.4	Mode of Transport		Pipeline network for gas stations				
8.2	Alternate Fuel :		Naptha				
8.2.1	Annual Allocation/ Requirement	Million Cubic meter or MT or Kilo Litre	1051200 KL(Naphtha/HSD)				
8.2.2	Sources of supply		HPCL Mumbai				
8.2.3	Transportation Distance of the station from the Sources	KM	1,700.00				
8.2.4	Mode of Transport		Road				
8.2.5	Maximum Station capability to stock secondary fuels	KL	8,000.00				
9	Cost of Spares :						
9.1	Cost of Spares capitalized in the books	(Rs. Lakhs)	-	-	-	-	-
9.2	Cost of spares included in capital cost for the purpose of	(Rs. Lakhs)	-	-	-	-	-
10	Generation :						
10.1	Actual Gross Generation at generator terminals	MU	2,405.84	2,499.41	1,382.66	1,028.90	255.53
10.1.1	Total	MU	2,405.84	2,499.41	1,382.66	1,028.90	255.53
10.1.2	On Gas	MU	2,403.47	2,484.04	1,382.51	1,028.17	245.81
10.1.3	On Naphtha or any other liquid fuel	MU	2.38	15.36	0.15	0.73	9.71
10.2	-Actual Net Generation Ex-bus	MU	2,341.38	2,429.78	1,335.43	992.35	240.71
10.3	-Scheduled Generation Ex-bus	MU	2,362.59	2,458.37	1,371.72	1,006.99	259.33
11	Average Declared Capacity (DC)	MW	630.86	612.96	602.12	620.10	560.35

12	Actual Auxiliary Energy Consumption excluding colony consumption & agency power	MU	63.36	68.75	45.77	34.81	13.47
13	Actual Energy supplied to Colony from the station and Agency Power	MU	2.32	2.23	2.24	2.34	2.06
14	Main/Primary Fuel :						
14.1	Consumption	MSCM	514.124554	539.378191	303.313155	222.763091	61.442285
14.1.1	Natural Gas	APM Gas	51,37,44,919.00	53,93,78,148.00	30,33,13,140.00	22,27,63,091.00	6,10,33,582.00
		Non-APM Gas					
14.1.2	RLNG	SCM	3,79,635.00	43.00	15.00	-	4,08,703.00
14.1.3	Liquid Fuel	KL	625.08	4,113.86	96.75	246.37	3,725.00
14.2	Weighted Gross Calorific Value (GCV)						
14.2.1	Natural Gas (as received)	kCal/SCM	9553.6	9547.9	9553.3	9604.4	9470.8
14.2.2	RLNG (as received)	kCal/SCM	9553.6	9547.9	9553.3	9604.4	9470.8
14.2.3	Liquid fuel (as received)	kCal/Lt.	8307.37	8096.42	8916.03	7879.79	8234.00
14.3	Weighted Average Landed Price	Rs. /1000 SCM					
14.3.1	APM Gas	Rs. /1000 SCM	9.02	11.13	12.02	8.79	7.08
14.3.2	Non-APM Gas	Rs. /1000 SCM	10.11	12.24	13.17	9.05	
14.3.3	RLNG	Rs. /1000 SCM	27.57	33.00	33.17	24.91	37.89
14.3.4	Liquid Fuel	Rs./KL	42,842.07	54,774.91	81,020.04	78,467.47	88,206.41
14.4	Percentage of Declared Capacity						
14.4.1	APM Gas	%	43.10	44.30	28.77	18.49	1.21
14.4.2	Non-APM Gas	%	0.00	0.00	0.00	1.80	0.20
14.4.3	RLNG	%	52.55	53.10	70.17	30.21	51.86
14.4.4	Liquid Fuel	%	4.35	2.59	1.05	49.51	46.72
14.5	Actual Average stock maintained for liquid fuel	(KL)	-	-	-	-	-
15	Alternate Fuel : RLNG/Liquid						
15.1	Consumption (RLNG)	KL/SCM					
	Weighted Average Gross Calorific value (As received)	(kCal /Lt. or SCM)					
	Consumption (Liquid)	KL	625.08	4,113.86	96.75	246.37	3,725.00
	Weighted Average Gross Calorific	(kCal /Lt.)	8,307.37	8,096.42	8,916.03	7,879.79	8,234.32
15.3	Weighted Average Landed Price	(Rs per KL)	42,842.07	54,774.91	81,020.04	78,467.47	NA
15.4	Actual Average stock maintained	KL					
16	Weighted average duration of outages(Unit-wise details)						
16.1	Planned Outages	(Days)	1.66	6.59	20.26	7.99	5.46
16.2	Forced Outages	(Days)	1.01	4.56	0.65	1.06	1.53
16.3	Number of tripping	Nos.	17.00	8.00	9.00	5.00	10.00
16.4	Number of start-ups	Nos.	53.00	69.00	222.00	37.00	136.00
16.4.1	Cold Start-up(Steam Turbine)	Nos.					
16.4.2	Warm Start-up(Steam Turbine)	Nos.					

16.4.3	Hot start-up(Steam Turbine)	Nos.						
17	Cost of spares consumed	Rs. Lakhs	719.61	383.61	805.40	641.70	690.90	
18	Average stock of spares	Rs. Lakhs	4,151.12	4,142.77	4,082.85	3,957.03	4,023.71	
19.	NOx and other particulate matter		Details as per Annexure - A (Emission Data)					
19.1	Design value	mg/Nm ³						
19.2	Actual emission	mg/Nm ³						
20	Number of employees deployed in							
20.1	- Executive	Nos.	56.00	46.00	46.00	48.00	44.00	
20.2	- Non Executive	Nos.	117.00	112.00	92.00	90.00	87.00	
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	0.26	0.24	0.21	0.21	0.20	

DETAILS OF WATER CHARGES

Name of the Company:

NTPC Ltd

Name of the Power Station and Stage/Phase:

Kawas 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
(A)	Plant					
1	Type of Plant	Gas Based Combined Cycle Power Plant				
2	Type of Cooling Tower	Natural Draft				
3	Type of Cooling Water System	Forced Cooling				
4	Any Special Features which may increase/reduce water consumption					
(B)	Quantum of Water :					
5	Contracted Quantum	30,00,000	36,00,000	30,00,000	21,00,000	21,00,000
6	Allocation of Water	30,00,000	36,00,000	30,00,000	21,00,000	21,00,000
7	Actual water Consumption	35,44,916	39,87,457	20,85,396	17,27,216	13,13,870
8.	Rate of Water Charges (Rs/m ³)	23.58	25.94	28.53	31.38	34.52
9	Other charges/Fees , if paid as part of Water Charges					
10	Total water Charges Paid	844.76	992.12	573.83	534.43	430.30

DETAILS OF OPERATIONS AND MAINTENANCE EXPENSES

Name of the Company:
Name of the Power Station

NTPC Ltd
Kawas Gas Power Project (656.2 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	28,849.98	29,209.28	29,675.30	30,932.35	31,934.69
(B)	Details of Capital Spares procured during the year	420.73	539.39	1,351.46	1,094.25	1,362.61
(C)	Details of capital spares consumed during the year	61.44	73.37	94.41	91.90	165.28
(D)	Details of capital spares closing at the end of the	29,209.28	29,675.30	30,932.35	31,934.69	33,132.02

Annexure VI (D)

Kawas Gas Power Station
Capital Spares Procurement

Fiscal Year	Asset	Sub-number	Asset Description	Amount (Rs)
2017	103500019192	0	BATTERY CHARGER 48V,400AMP,1500AH ,LEAD ACID BANK	34,200.00
2017	103500019193	0	BATTERY CHARGER 125 V,160AMP,700AH LEAD ACID	34,200.00
2017	103500019194	0	BATTERY CHARGER 125 V,120AMP,535AH, LEAD ACID	34,200.00
2017	103500019195	0	BATTERY CHARGER 125 V,120AMP,535AH, LEAD ACID	34,200.00
2017	103500019196	0	BATTERY CHARGER 48 V,40AMP,45 AH NI/CD BATTERY	34,200.00
2017	103500019197	0	BATTERY CHARGER 48 V,40AMP,45 AH NI/CD BATTERY	34,200.00
2017	103500019198	0	BATTERY CHARGER 125 V,16AMP,45 AH,NI/CD BATTERY	34,200.00
2017	103500019199	0	BATTERY CHARGER 125 V,16AMP,45 AH,NI/CD BATTERY	34,200.00
2017	103500023456	0	LVDT for IGV of Gas Turbine GE Part Code: 311A5178	2,219.50
2017	103500023457	0	LVDT for IGV of Gas Turbine GE Part Code: 311A5178	2,219.50
2017	103500023458	0	MOTOR CKT BREAKER 2500A L&T MAKE 3 POLE	57,500.00
2017	103500023459	0	MOTOR CKT BREAKER 2500A L&T MAKE 3 POLE	57,500.00
2017	103500023460	0	LT AIR CIRCUIT BREAKER 1250 A 3 POLE 415V	49,450.00
2017	103500023461	0	DUAL FUEL NOZZLE ASSEMBLY GE FRAME 9E GAS TURBINE	4,439.00
2017	103500033565	0	ELECT.ACTUATOR: SA14.1-F14, RPM-45, AUMA	3,48,667.50
2017	103500033566	0	ELECT.ACTUATOR: SA14.1-F14, RPM-45, AUMA	3,48,667.50
2017	103500033664	0	PLUG FOR HP CONTROL VALVE OF STEAM TURBINE	15,74,000.00
2017	103500033665	0	PLUG FOR HP CONTROL VALVE OF STEAM TURBINE	15,74,000.00
2017	103500033666	0	PLUG FOR HP CONTROL VALVE OF STEAM TURBINE	11,58,537.50
2017	103500033667	0	ASSY. BEARING-3, PART NO. 112E1293G003	25,75,395.00
2017	103500034438	0	UNDERSIZE BEARING LINER#2 FOR GE-MS9001E/9171E GT	41,11,184.25
2017	103500037055	0	116MW:TILTING PAD BRG. HPT(INLET) ASSY WSR1842343G	1,49,68,025.00
2017	103500037058	0	116MW:TILTING PAD BRG.HPT(EXHAUST) ASSWSR1842345G	1,49,68,025.00
2018	103500012841	0	NON REVERSE RATCHET ASSEMBLY 930 KW 6.6 KV CW MOTR	-940.90
2018	103500012842	0	NON REVERSE RATCHET ASSEMBLY 930 KW 6.6 KV CW MOTR	-940.90
2018	103500040820	0	BUSBAR PROTECTION SYSTEM 220 KV SWITCHYARD RELAY	1,03,21,591.82
2018	103500042091	0	ALSTOM-116MW: GLAND SEAL 1 INLET: Part No: 145100A	13,19,245.00
2018	103500042092	0	ALSTOM-116MW:GLAND SEAL 2 INLET: Part No:- 145200A	6,13,880.00
2018	103500042093	0	ALSTOM-116MW:GLAND SEAL 3 INLET: Part No:- 145300A	6,13,880.00
2018	103500042094	0	ALSTOM-116MW:GLAND SEAL EXT INLET: Part No 145400A	6,17,738.00
2018	103500042095	0	ALSTOM-116MW:GLAND SEAL 1 EXHAUST: Part No:- 14600	8,59,771.00
2018	103500042096	0	ALSTOM-116MW:GLAND SEAL 2 EXHAUST Part No: 146100A	6,24,062.00
2018	103500042097	0	ALSTOM-116MW:GLAND SEAL EXT EXHAUST PartNo 146200A	8,37,736.00
2018	103500043842	0	SERVO VALVE FOR HP/LP CONTROL VALVE OF STEAM TURBI	9,38,808.00
2018	103500043843	0	SERVO VALVE FOR HP/LP CONTROL VALVE OF STEAM TURBI	9,38,808.00
2018	103500045004	0	MS9001E:BUNDLE ASSY AA HEAT EXCH	65,00,030.00
2018	103500045005	0	MS9001E:BUNDLE ASSY AA HEAT EXCH	65,00,030.00
2018	103500045006	0	GSG100-290/1D:BEARING	17,31,985.78
2018	103500045007	0	GSG100-290/1D:BEARING	17,31,985.78
2018	103500045008	0	GSG100-290/1D:BEARING	17,31,985.78
2018	103500045009	0	GSG100-290/1D:BEARING	17,31,985.79
2018	103500045010	0	GSG100-290/1D:THRUST-BEARING M 8174 OS	30,07,559.90
2018	103500045011	0	GSG100-290/1D:THRUST-BEARING M 8174 OS	30,07,559.88
2018	103500045014	0	GSG100-290/1D:SHAFT	41,01,323.09
2018	103500045585	0	220KV;3150Amp SF6 bkr	31,05,272.11
2018	103500045586	0	220KV;3150Amp SF6 bkr	31,05,204.04
2019	103500012830	0	TEMP DESUPERHEATER TEMP. CONTROL VALVE ASSEMBLY	-89,633.00
2019	103500019192	0	BATTERY CHARGER 48V,400AMP,1500AH ,LEAD ACID BANK	-7,388.75
2019	103500019193	0	BATTERY CHARGER 125 V,160AMP,700AH LEAD ACID	-7,388.75
2019	103500019194	0	BATTERY CHARGER 125 V,120AMP,535AH, LEAD ACID	-7,388.75
2019	103500019195	0	BATTERY CHARGER 125 V,120AMP,535AH, LEAD ACID	-7,388.75
2019	103500019196	0	BATTERY CHARGER 48 V,40AMP,45 AH NI/CD BATTERY	-7,388.75
2019	103500019197	0	BATTERY CHARGER 48 V,40AMP,45 AH NI/CD BATTERY	-7,388.75
2019	103500019198	0	BATTERY CHARGER 125 V,16AMP,45 AH,NI/CD BATTERY	-7,388.75
2019	103500019199	0	BATTERY CHARGER 125 V,16AMP,45 AH,NI/CD BATTERY	-7,388.75
2019	103500023458	0	MOTOR CKT BREAKER 2500A L&T MAKE 3 POLE	-3,525.00
2019	103500023459	0	MOTOR CKT BREAKER 2500A L&T MAKE 3 POLE	-3,525.00
2019	103500023460	0	LT AIR CIRCUIT BREAKER 1250 A 3 POLE 415V	-5,000.00
2019	103500033565	0	ELECT.ACTUATOR: SA14.1-F14, RPM-45, AUMA	3,655.00
2019	103500033566	0	ELECT.ACTUATOR: SA14.1-F14, RPM-45, AUMA	3,655.00

2019	103500045004	0	MS9001E:BUNDLE ASSY AA HEAT EXCH	-55,085.00
2019	103500045005	0	MS9001E:BUNDLE ASSY AA HEAT EXCH	-55,085.00
2019	103500047202	0	220KV;3150Amp SF6 bkr	30,61,155.86
2019	103500048664	0	Generator Excitation Collector Ring Assembly	58,14,997.00
2019	103500048665	0	Generator Excitation Collector Ring Assembly	58,14,997.00
2019	103500048666	0	Generator Excitation Collector Ring Assembly	58,14,997.00
2019	103500052900	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052901	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052902	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052903	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052904	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052905	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052906	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052907	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052908	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052909	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052910	0	220KV CURRENT TRANSFORMERS	3,86,056.67
2019	103500052911	0	220KV CURRENT TRANSFORMERS	3,86,056.63
2019	103500060987	0	LP TURBINE DIAPHRAGM COMPLETE WITH 2-5th STAGE	10,38,17,295.00
2019	103500060988	0	Procurement of control valve for ST Steam Line	39,55,000.00
2019	103500060989	0	NUMERICAL DISTANCE PROTECTION RELAY	24,98,696.00
2020	103500040820	0	BUSBAR PROTECTION SYSTEM 220 KV SWITCHYARD RELAY	14,30,104.00
2020	103500052900	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052901	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052902	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052903	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052904	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052905	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052906	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052907	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052908	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052909	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052910	0	220KV CURRENT TRANSFORMERS	6,293.33
2020	103500052911	0	220KV CURRENT TRANSFORMERS	6,293.37
2020	103500065413	0	Procurement of DM plant spares for NTPC Kawas	7,79,402.00
2020	103500065414	0	Procurement of 3 phase relay test kit for NTPC Kaw	10,73,800.00
2020	103500067110	0	FIN FAN COOLER (HEAT EXCHANGER)	12,11,860.00
2020	103500067111	0	FIN FAN COOLER (HEAT EXCHANGER)	12,11,860.00
2020	103500067112	0	FIN FAN COOLER (HEAT EXCHANGER)	12,11,860.00
2020	103500067113	0	FIN FAN COOLER (HEAT EXCHANGER)	12,11,860.00
2020	103500067114	0	FIN FAN COOLER (HEAT EXCHANGER)	12,11,860.00
2020	103500067115	0	FIN FAN COOLER (HEAT EXCHANGER)	12,11,860.00
2020	103500067128	0	FIN-FAN HEAT EXCHANGER ASSEMBLY FOR GAS TURBINE	12,92,835.00
2020	103500067129	0	FIN-FAN HEAT EXCHANGER ASSEMBLY FOR GAS TURBINE	12,92,835.00
2020	103500067130	0	FIN-FAN HEAT EXCHANGER ASSEMBLY FOR GAS TURBINE	12,92,835.00
2020	103500067138	0	3 phase relay test kit	24,95,447.00
2020	103500067139	0	NITROGEN GENERATOR FOR BOILER PRESERVATION-KAWAS	17,11,000.00
2020	103500067140	0	DM plant spares	9,30,386.00
2020	103500068487	0	220KV Isolators	7,40,927.52
2020	103500068488	0	220KV Isolators	7,40,927.52
2020	103500068489	0	220KV Isolators	7,40,927.52
2020	103500068490	0	220KV Isolators	7,40,927.52
2020	103500068491	0	220KV Isolators	7,40,927.52
2020	103500068492	0	220KV Isolators	7,40,927.52
2020	103500068493	0	220KV Isolators	7,40,927.52
2020	103500068494	0	220KV Isolators	7,40,927.52
2020	103500068495	0	220KV Isolators	7,40,927.52
2020	103500068496	0	220KV Isolators	7,40,927.52
2020	103500068497	0	220KV Isolators	7,40,927.52
2020	103500068498	0	220KV Isolators	7,40,927.28
2020	103500068499	0	Lead acid plante battery bank for NTPC Kawas	57,79,532.00
2020	103500068500	0	AIR FIN COOLER TUBE BUNDLE ASSEMBLY W/O MOTOR	4,03,953.33
2020	103500068501	0	AIR FIN COOLER TUBE BUNDLE ASSEMBLY W/O MOTOR	4,03,953.33
2020	103500068502	0	AIR FIN COOLER TUBE BUNDLE ASSEMBLY W/O MOTOR	4,03,953.33
2020	103500068503	0	AIR FIN COOLER TUBE BUNDLE ASSEMBLY W/O MOTOR	4,03,953.33

2020	103500068504	0	AIR FIN COOLER TUBE BUNDLE ASSEMBLY W/O MOTOR	4,03,953.33
2020	103500068505	0	AIR FIN COOLER TUBE BUNDLE ASSEMBLY W/O MOTOR	4,03,953.33
2020	103500068506	0	AIR FIN COOLER TUBE BUNDLE ASSEMBLY W/O MOTOR	4,03,953.33
2020	103500068507	0	AIR FIN COOLER TUBE BUNDLE ASSEMBLY W/O MOTOR	4,03,953.33
2020	103500068508	0	AIR FIN COOLER TUBE BUNDLE ASSEMBLY W/O MOTOR	4,03,953.36
2020	103500071032	0	MS9001E:EXHAUST FRAME,MS9001	3,86,12,149.28
2020	103500071033	0	MS9001E:EXHAUST FRAME,MS9001	2,08,28,850.00
2020	103500071034	0	Circuit breaker for switch yard at NTPC Kawas	28,91,000.00
2020	103500071035	0	MS9001E:LINER BEARING #2	33,92,555.45
2020	103500071036	0	MS9001E:LINER BEARING	11,39,803.77
2020	103500071037	0	MS9001E:LINER BEARING #3	22,43,357.99
2020	103500071038	0	Procurement of Kirloskar Make complete pump assemb	11,82,662.00
2020	103500071039	0	Procurement of Kirloskar Make complete pump assemb	11,82,662.00
2021	103500080797	0	ON-LINE DEGASSED CATION CONDUCTIVITY ANALYZER.	3,77,600.00
2021	103500080798	0	ON-LINE DEGASSED CATION CONDUCTIVITY ANALYZER.	3,77,600.00
2021	103500082295	0	Gas Turbine Spares	9,65,04,241.06
2021	103500083536	0	CAPITAL SPARES (PART DEVELOPMENT) FOR MAIN CW PUMP	2,91,047.00
2021	103500083537	0	CAPITAL SPARES (PART DEVELOPMENT) FOR MAIN CW PUMP	5,99,039.00
2021	103500083538	0	CAPITAL SPARES (PART DEVELOPMENT) FOR MAIN CW PUMP	1,53,105.00
2021	103500083539	0	steam turbine SPARES	8,98,592.82
2021	103500083540	0	steam turbine SPARES	8,98,592.85
2021	103500083541	0	steam turbine SPARES	19,62,607.83
2021	103500083542	0	steam turbine SPARES	19,62,607.84
2021	103500083543	0	steam turbine SPARES	16,32,056.31
2021	103500083544	0	steam turbine SPARES	16,32,056.35
2021	103500083545	0	CAPITAL SPARES (PART DEVELOPMENT) FOR MAIN CW PUMP	38,196.50
2021	103500083546	0	CAPITAL SPARES (PART DEVELOPMENT) FOR MAIN CW PUMP	38,196.50
2021	103500083547	0	Procurement of Solenoid Valve for NTPC Kawas	6,33,175.00
2021	103500083548	0	11 KV variav motor for NTPC Kawas	47,64,697.00
2021	103500083549	0	spare bushings for generator transformer	5,55,780.00
2021	103500083550	0	spare bushings for generator transformer	5,55,780.00
2021	103500087598	0	steam turbine SPARES	44,92,975.93
2021	103500088558	0	GAS TURBINE DUAL FUEL NOZZLES	1,78,93,328.00
2022	103500087598	0	steam turbine SPARES	-225.93
2022	103500090037	0	116MW:HP VALVE SEAT	18,59,949.92
2022	103500090038	0	116MW:HP VALVE SEAT	18,59,949.96
2022	103500090039	0	116MW:HP VALVE SEAT	11,35,257.94
2022	103500090040	0	116MW:HP VALVE SEAT	11,35,257.94
2022	103500090058	0	VCB:11KV:SWITCHGEAR CUBICLE WITH BREAKER	98,03,145.00
2022	103500092862	0	RTU PANEL: TC \2 "2.21, HIEGHT<2100MM	15,99,629.00
2022	103500095514	0	AVR/DVR:DAVR SYSTEM	94,63,600.00
2022	103500096637	0	Generator transformer (140 MVA, 11.5KV/229 KV)	12,36,05,352.42
2022	103500096638	0	SERVO V/V,HP/LP CNTRL V/V OF ST,F072-368	13,95,019.50
2022	103500096639	0	SERVO V/V,HP/LP CNTRL V/V OF ST,F072-368	13,95,019.50
Grand Total				63,00,95,991.51

Annexure VI (D)

**Kawas Gas Power Station
Capital Spares Consumption**

Fiscal Year	Asset	Sub-number	Asset Description	Amount (Rs)
2017	100900000550	0	AWSS-SUPPLY OF PUMPS-KIRLOSKAR BROS	2,20,310.00
2017	101300006159	0	STEAM GENERATOR M P	16,71,367.00
2017	101300006173	0	COOLING WATER SYSTEM M P	7,51,243.00
2017	101300006176	0	C & I EQUIPMENT	61,371.00
2017	101300006204	0	AUXILERY EQUIP AND ACESS M P G T	1,09,682.00
2017	101300006222	0	UNIT & STATION TRANSFORMER G T	4,76,055.00
2017	101300006224	0	6.6 KV SWITCHGEAR G T	5,07,841.00
2017	101300006236	0	CONTROL & RELAY PANEL G T	31,191.00
2017	101300006241	0	L T SWTCH GEAR S T	7,52,058.00
2017	101300006654	0	400/220/132 KV SWITCHYARD AT NTPC	10,358.00
2017	101300006715	0	TURBINE GENERATOR GAS PROJECT M-P-GT1A	2,83,866.00
2017	101300006715	347	SOLENOID V/V 20VG1EGT 324 A 5700 P001	23,514.04
2017	101300006716	0	TURBINE GENERATOR GAS PROJECT M-P-ST1C	64,138.00
2017	101300006720	0	C AND I SYSTEM EQUIPMENT -GT1A	1,35,609.00
2017	101300006720	92	SOLENOID VALVES : COIL VOLTAGE : 48V DC 2/2	17,030.07
2017	101300006721	0	C AND I SYSTEM EQUIPMENT-ST1C	2,16,299.00
2017	101300006726	0	A C VENTLATION AND FIRE FIGHTING	1,20,143.00
2017	103500006223	0	GSG 100-290/1D-10 COUPLING Arpex NAN-235-250	6,91,566.00
2018	100900000548	0	AWSS-ELECTRICAL PACKAGE-M/S BSES-VARIAV	1,75,238.00
2018	100900000550	0	AWSS-SUPPLY OF PUMPS-KIRLOSKAR BROS	3,45,022.00
2018	101300006280	0	MECHANICAL AND AUXILERY EQUIPMENT	37,744.00
2018	101300006654	0	400/220/132 KV SWITCHYARD AT NTPC	33,48,782.00
2018	101300006717	0	TURBINE GENERATOR GAS PROJECT M-P-ST2C	32,84,102.00
2018	101300006720	0	C AND I SYSTEM EQUIPMENT -GT1A	62,112.00
2018	101300006721	0	C AND I SYSTEM EQUIPMENT-ST1C	5,580.00
2018	1013000061342	0	TURBINE GENERATOR GAS PROJECT M-P-GT2A	77,943.00
2019	101300006654	0	400/220/132 KV SWITCHYARD AT NTPC	17,32,137.00
2019	101300006654	40	SWITCHYARD EQUIPMENT SPARES	30,31,239.00
2019	101300006715	22	Capital Spares for Turbine Generator	2,76,330.00
2019	101300006715	325	CRITICAL SPARES MAT CODE 5214250285,5214	0.00
2019	101300006716	0	TURBINE GENERATOR GAS PROJECT M-P-ST1C	17,68,255.96
2019	101300006720	116	POSITION TRANSMITER, PART CODE-FS4211-A2	77,943.60
2019	101300006721	111	C&I EQUIPMENT SPARES	5,45,348.00
2019	101300006721	199	ASCO SOL. V/V, CAT : HCX8262135V-13893	22,040.80
2019	1013000061341	0	TURBINE GENERATOR GAS PROJECT M-P-GT1B	19,88,105.92
2020	100900000548	0	AWSS-ELECTRICAL PACKAGE-M/S BSES-VARIAV	13,816.33
2020	101300006234	0	DC BATTERY CHARGER G T	31,453.03
2020	101300006248	0	D C BATTERY & CHARGER S T	8,81,386.90
2020	101300006260	0	D M PLANT THERMAX	1,55,069.77
2020	101300006271	3	SET OF PRINTED CIRCUIT BOARD-MT MAT CODE	2,86,517.65
2020	101300006654	0	400/220/132 KV SWITCHYARD AT NTPC	10,61,420.24
2020	101300006715	0	TURBINE GENERATOR GAS PROJECT M-P-GT1A	6,32,269.85
2020	101300006716	0	TURBINE GENERATOR GAS PROJECT M-P-ST1C	12,91,639.50
2020	101300006720	0	C AND I SYSTEM EQUIPMENT -GT1A	1,50,650.00
2020	101300006720	58	SOLENOID VALVE, ASCO CAT. 12100310-48VDC	15,634.24
2020	101300006721	0	C AND I SYSTEM EQUIPMENT-ST1C	40,394.30
2020	101300006721	175	ASCO SOLENOID V/V., 212-6304VF, 125 VDC	54,293.14
2020	101300006726	0	A C VENTLATION AND FIRE FIGHTING	8,80,407.00
2020	101300055103	0	THREE PHASE UNIVESAL RELAY TEST KIT	17,85,285.00
2020	1013000061341	0	TURBINE GENERATOR GAS PROJECT M-P-GT1B	6,32,269.85
2020	1013000061343	0	TURBINE GENERATOR GAS PROJECT M-P-GT2B	12,77,875.10
2021	101300006173	0	COOLING WATER SYSTEM M P	44,625.00
2021	101300006260	0	D M PLANT THERMAX	82,593.00
2021	101300006715	0	TURBINE GENERATOR GAS PROJECT M-P-GT1A	95,190.10
2021	101300006716	0	TURBINE GENERATOR GAS PROJECT M-P-ST1C	1,05,054.17
2021	101300006717	0	TURBINE GENERATOR GAS PROJECT M-P-ST2C	1,59,99,964.16
2021	101300006720	271	MOOG MAKE SERVO VALVE, THREE COIL 328A7112P00	1,53,000.00
2021	1013000061341	0	TURBINE GENERATOR GAS PROJECT M-P-GT1B	47,324.80
2022	100900000548	0	AWSS-ELECTRICAL PACKAGE-M/S BSES-VARIAV	16,96,448.00
2022	101300006715	0	TURBINE GENERATOR GAS PROJECT M-P-GT1A	5,84,312.00
2022	101300006717	0	TURBINE GENERATOR GAS PROJECT M-P-ST2C	21,35,410.00
2022	101300006726	0	A C VENTLATION AND FIRE FIGHTING	2,07,246.00
2022	1013000061342	0	TURBINE GENERATOR GAS PROJECT M-P-GT2A	11,61,539.00
2022	103500019206	0	116MW:HP VALVE SEAT Part No : 20010EC	8,55,540.00
2022	103500019207	0	116MW:HP VALVE SEAT Part No : 20010EC	8,55,540.00
2022	103500020964	0	116MW:HP VALVE SEAT Part No : 25010EC, ALSTOM DRAW	8,55,540.00
2022	103500020965	0	116MW:HP VALVE SEAT Part No : 25010EC, ALSTOM DRAW	8,55,540.00
			Grand Total	5,78,46,812.52