



GUJARAT STATE ELECTRICITY CORPORATION LIMITED

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CIN: U40100GJ1993SGC019988

GSECL/CERC/T&C 19-24/ 1622

Date: 17.05.2018.

BY RPAD

To,
The Secretary,
Central Electricity regulatory commission,
Third Floor, Chanderlok Building,
36, Janpath,
New Delhi - 110 001

Sub:- CERC Terms & Conditions of Tariff for the tariff period starting from 01.04.2019 to 31.03.2024 - Details thereof.

Ref:- 1. CERC Letter No: 158374/GERC/2018 Dtd. 07.03.2018

2. GERC Letter No: GERC/Tariff/4218/1559/0537 Dtd. 28.03.2018

Respected Sir,

In context to the above subject & Ref (1&2), Enclosed herewith please find the details of operational data and O&M expenses for last 4 years i.e. from 2013-14 to 2016-17 for GSECL power stations.

It is requested to kindly appraise the Hon'ble Commission for the further needful please.

Thanking you,

For Gujarat State Electricity Corporation Ltd.,

Encl:- As Above.

BY RPAD

Copy to,
The Secretary,
Gujarat Electricity Regulatory Commission,
6th Floor, GIFT one,
Road 5C, Zone 5, GIFT City,
Gandhinagar - 382355.
GUJARAT.

(R.M. Bhadang) 14/5
General Manager (F&A)

Pl. compile.
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PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIEVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		UKAI 1-5				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		850 MW	850 MW	850 MW	850 MW	610 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		75%	75%	75%	80%	80%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NPAF
APRIL	80.47	84.31	65.84	51.78	45.88	2016-17: a) Outage for Ukai LBC canal repairing by irrigation dept. for 3 months, b) Major R&M of Unit -4 for turbine retrofitting & ESP refurbishment and Unit-5 for ESP refurbishment
MAY	84.59	91.92	82.31	49.77	73.52	
JUNE	71.85	89.11	84.09	54.46	96.27	
JULY	73.00	82.57	76.70	72.70	98.04	
AUGUST	70.66	60.03	85.24	78.88	98.66	
SEPTEMBER	70.25	90.93	83.76	74.28	98.14	
OCTOBER	91.26	73.38	77.10	77.62	66.89	
NOVEMBER	91.48	84.60	90.68	87.46	69.68	
DECEMBER	92.81	86.28	92.67	17.30	71.97	
JANUARY	87.14	79.32	69.13	0.00	63.97	
FEBRUARY	87.82	58.48	56.20	7.59	66.49	
MARCH	64.18	71.94	66.19	24.85	92.52	
ANNUAL	80.42	79.14	77.57	49.88	89.65	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	73.08	57.47	53.96	43.58	42.31	2013-14: Backing down
MAY	70.27	72.04	59.98	45.58	64.11	2014-15: Low schedule
JUNE	49.17	69.39	40.20	48.95	79.63	2015-16: Low schedule
JULY	41.91	45.54	42.75	34.46	33.54	2016-17: Backing down & the reasons shown as above in PAF
AUGUST	23.12	40.96	51.62	17.59	45.09	
SEPTEMBER	33.61	46.75	55.28	39.70	86.82	
OCTOBER	48.99	61.04	52.52	52.73	72.90	
NOVEMBER	58.99	57.22	36.36	47.41	88.24	
DECEMBER	56.94	54.17	32.25	8.85	83.38	
JANUARY	44.49	51.17	20.85	0.00	82.59	
FEBRUARY	40.67	36.86	20.18	6.17	87.73	
MARCH	40.51	54.36	31.97	21.05	84.74	
ANNUAL	48.35	54.14	41.56	30.55	70.75	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		UKAI 6				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		500 MW	500 MW	500 MW	500 MW	500 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		85%	85%	85%	85%	85%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NPAF
APRIL	-	79.12	86.27	19.16	101.64	2013-14: Unit under stabilisation
MAY	-	7.61	85.80	39.38	93.76	
JUNE	-	36.68	71.16	92.64	14.28	2014-15: Due to problem of Ash Evacuation system
JULY	-	98.15	88.52	96.79	0.00	
AUGUST	42.93	81.26	0.00	96.22	43.67	2015-16: ESP problem
SEPTEMBER	41.57	93.54	80.25	100.80	93.53	2017-18: Generator Rotor Earth Fault
OCTOBER	21.75	57.30	98.92	99.34	101.94	
NOVEMBER	59.33	81.21	93.97	101.34	101.81	
DECEMBER	76.65	92.48	101.06	102.13	100.02	
JANUARY	70.35	93.47	100.28	102.13	94.24	
FEBRUARY	84.58	45.18	101.06	101.22	95.85	
MARCH	86.30	70.03	99.79	91.38	60.97	
ANNUAL	49.27	69.84	83.84	86.85	74.94	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	-	74.60	78.53	15.36	91.71	2013-14: Unit under stabilisation
MAY	-	7.15	71.37	32.80	82.61	
JUNE	-	32.42	56.00	80.05	12.71	2014-15: Due to problem of Ash Evacuation system and backing down
JULY	-	81.39	33.34	76.46	0.00	
AUGUST	-	69.72	0.00	74.68	34.92	2015-16: Low schedule
SEPTEMBER	30.37	78.90	67.72	85.10	84.29	
OCTOBER	18.69	56.17	78.60	67.80	94.61	2016-17: Backing down
NOVEMBER	37.71	68.07	69.69	67.91	95.64	2017-18: Generator Rotor Earth Fault
DECEMBER	65.84	74.92	37.56	84.41	86.61	
JANUARY	65.50	74.63	68.45	83.47	87.88	
FEBRUARY	70.54	40.96	32.33	80.65	92.13	
MARCH	71.71	71.56	76.47	79.40	58.30	
ANNUAL	38.68	61.01	55.84	68.99	68.23	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		GANDHINAGAR 1-4				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		660 MW	660 MW	660 MW	660 MW	420 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		79%	79%	79%	84%	84%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	87.36	90.57	46.73	40.96	97.45	2015-16: Forced outage of Unit 1&2
MAY	89.57	87.92	64.32	48.17	98.15	
JUNE	59.07	90.57	82.17	62.00	95.54	
JULY	90.57	90.57	85.89	73.79	98.79	
AUGUST	90.57	81.70	89.06	88.16	97.37	
SEPTEMBER	90.57	69.53	69.81	100.00	95.49	
OCTOBER	90.57	71.67	64.31	100.00	98.71	
NOVEMBER	90.57	88.65	84.12	97.41	92.48	
DECEMBER	90.57	88.62	89.06	101.88	86.79	
JANUARY	90.57	88.61	89.06	77.71	93.63	
FEBRUARY	90.57	89.03	87.96	62.20	84.46	
MARCH	90.42	62.19	89.06	57.91	80.93	
ANNUAL	87.62	82.53	78.49	85.80	93.37	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	51.61	18.42	36.83	26.08	47.78	2013-14: Backing down
MAY	27.22	43.68	44.22	24.90	62.88	2014-15: Low schedule
JUNE	0.00	31.45	17.87	26.76	43.79	2015-16: Low schedule
JULY	11.27	25.12	21.65	5.31	12.94	2016-17: Backing down & APC consumption during RSD
AUGUST	4.52	20.35	16.01	4.92	66.25	
SEPTEMBER	26.12	15.58	35.68	20.90	69.35	
OCTOBER	0.00	43.39	26.96	14.41	74.62	
NOVEMBER	18.60	50.46	21.19	9.81	78.90	
DECEMBER	0.00	31.34	10.74	9.59	70.33	
JANUARY	0.00	33.56	0.00	22.99	76.81	
FEBRUARY	0.00	45.07	17.51	1.47	74.84	
MARCH	7.31	21.44	23.74	11.18	69.91	
ANNUAL	12.19	31.57	22.67	16.59	62.29	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		GANDHINAGAR 5				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		210 MW	210 MW	210 MW	210 MW	210 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		80%	80%	80%	85%	85%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NPAF
APRIL	99.59	99.33	100.01	99.04	101.84	---
MAY	100.12	99.98	100.00	100.00	100.62	
JUNE	99.81	88.97	100.00	97.84	99.78	
JULY	45.21	100.47	35.65	97.30	87.70	
AUGUST	0.00	98.21	61.29	99.59	16.02	
SEPTEMBER	64.32	99.30	100.00	81.31	101.96	
OCTOBER	97.84	100.47	99.65	92.19	100.31	
NOVEMBER	91.86	97.22	100.00	100.00	100.60	
DECEMBER	100.12	100.47	94.12	100.00	101.03	
JANUARY	99.56	99.74	100.00	100.00	100.82	
FEBRUARY	100.12	100.47	100.00	99.91	100.37	
MARCH	99.28	89.62	100.00	100.00	97.99	
ANNUAL	82.95	97.85	90.91	98.13	92.26	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	90.24	85.19	87.97	86.41	93.88	2013-14: Backing down
MAY	84.48	88.12	85.96	86.66	91.73	2015-16: Low schedule
JUNE	82.10	78.35	83.09	86.09	79.06	
JULY	25.95	86.37	30.00	51.13	28.94	
AUGUST	0.00	85.79	52.51	25.16	13.54	
SEPTEMBER	54.93	85.16	86.84	70.37	92.00	
OCTOBER	80.30	92.71	82.77	77.25	94.07	
NOVEMBER	48.27	83.74	82.49	85.02	91.84	
DECEMBER	82.78	87.47	77.79	87.72	85.49	
JANUARY	82.70	84.75	84.19	84.93	91.05	
FEBRUARY	82.73	86.47	85.29	88.77	93.47	
MARCH	82.83	76.68	84.83	94.55	93.65	
ANNUAL	66.28	85.08	76.84	76.85	78.83	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		WANAKBORI 1-6				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		1260 MW	1260 MW	1260 MW	1260 MW	1260 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		85%	85%	85%	85%	85%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	81.38	94.19	80.59	91.84	96.74	---
MAY	93.77	90.18	79.56	94.96	98.85	
JUNE	82.99	95.73	86.48	91.97	98.15	
JULY	89.80	91.99	80.54	99.07	97.06	
AUGUST	82.61	57.28	95.45	87.47	83.98	
SEPTEMBER	93.11	88.98	97.32	97.83	80.53	
OCTOBER	97.17	98.32	98.54	99.84	79.00	
NOVEMBER	100.63	95.55	99.07	86.92	82.36	
DECEMBER	98.95	81.50	98.40	73.31	91.37	
JANUARY	101.57	77.22	94.01	81.95	87.01	
FEBRUARY	91.05	80.42	83.08	83.45	72.50	
MARCH	84.39	94.63	98.17	83.97	74.80	
ANNUAL	91.48	87.05	90.98	89.40	86.95	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	68.56	67.37	66.98	71.45	57.91	2013-14: Backing down
MAY	59.36	68.31	61.93	54.56	68.26	2014-15: Low schedule
JUNE	15.13	64.08	37.05	33.93	54.92	2015-16: Low schedule
JULY	10.22	53.91	39.07	9.42	0.00	2016-17: Backing down
AUGUST	8.74	33.79	42.52	0.00	7.14	
SEPTEMBER	51.74	50.06	60.93	24.26	61.57	
OCTOBER	31.60	72.06	55.27	16.91	62.76	
NOVEMBER	50.72	58.04	32.80	8.59	75.60	
DECEMBER	30.54	34.18	27.36	42.26	75.51	
JANUARY	28.16	37.46	17.78	11.94	78.03	
FEBRUARY	40.60	51.78	35.28	9.64	66.52	
MARCH	37.65	63.88	22.65	43.90	70.27	
ANNUAL	35.93	54.54	41.58	27.30	56.39	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		WANAKBORI 7				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		210 MW	210 MW	210 MW	210 MW	210 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		80%	80%	80%	85%	85%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	100.97	103.61	102.20	100.89	102.13	2016-17: Outage due to Turbine vibration
MAY	100.99	103.61	102.04	58.57	101.67	
JUNE	100.99	98.08	100.90	0.00	98.52	
JULY	100.99	102.92	90.02	0.00	102.16	
AUGUST	91.22	103.29	32.73	70.30	101.23	
SEPTEMBER	70.00	102.56	97.75	101.22	100.27	
OCTOBER	63.67	97.86	100.54	100.58	100.82	
NOVEMBER	101.76	102.56	100.47	99.07	100.98	
DECEMBER	103.88	96.51	99.16	102.45	100.05	
JANUARY	103.61	100.94	100.42	104.54	101.03	
FEBRUARY	103.61	102.56	98.63	104.45	100.27	
MARCH	103.03	99.34	99.78	103.51	99.11	
ANNUAL	89.59	101.14	93.62	78.63	100.00	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	86.96	80.05	84.47	87.87	84.95	2013-14: Backing down
MAY	79.34	82.36	81.39	49.77	88.61	2014-15: Low schedule
JUNE	77.60	77.44	59.89	0.00	81.70	2015-16: Low schedule
JULY	63.99	60.73	26.26	0.00	17.42	2016-17: Backing down
AUGUST	36.80	69.49	16.65	2.22	45.52	
SEPTEMBER	0.00	80.20	79.68	61.56	89.42	
OCTOBER	47.71	84.53	78.79	32.83	88.37	
NOVEMBER	54.51	78.72	19.67	39.16	95.06	
DECEMBER	5.01	72.92	15.60	83.16	88.70	
JANUARY	68.92	76.85	79.56	74.73	94.65	
FEBRUARY	63.08	80.51	81.83	79.82	96.74	
MARCH	33.50	79.45	80.91	88.96	96.32	
ANNUAL	57.26	76.88	58.57	49.79	80.41	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		SIKKA (1-2)				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		240 MW	240 MW	240 MW	240 MW	0 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		75%	75%	75%	80%	80%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	49.15	96.14	85.02	56.37	0.00	2016-17: Outage due to Long Restoration time
MAY	73.56	78.60	80.55	36.67	0.00	
JUNE	97.04	92.00	83.23	93.63	0.00	2017-18: D'commissioned from 01.04.2017
JULY	98.31	85.56	82.94	93.63	0.00	
AUGUST	98.31	72.78	72.83	93.63	0.00	
SEPTEMBER	88.36	93.24	65.88	43.28	0.00	
OCTOBER	94.13	90.23	90.92	75.61	0.00	
NOVEMBER	93.90	93.58	93.63	92.53	0.00	
DECEMBER	98.28	95.60	93.63	93.63	0.00	
JANUARY	97.25	95.80	93.63	93.63	0.00	
FEBRUARY	98.18	92.31	93.11	93.63	0.00	
MARCH	60.46	90.48	93.63	63.43	0.00	
ANNUAL	87.21	89.50	85.75	77.41	0.00	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	40.61	65.11	54.63	23.32	0.00	2013-14: Backing down
MAY	31.10	58.27	54.51	15.78	0.00	2014-15: Low schedule
JUNE	16.16	43.61	49.76	0.00	0.00	2015-16: Low schedule
JULY	0.00	26.97	15.22	0.00	0.00	2016-17: Backing down
AUGUST	0.00	26.28	8.54	0.00	0.00	2017-18: D'commissioned from 01.04.2017
SEPTEMBER	55.20	29.68	8.01	16.26	0.00	
OCTOBER	30.50	72.07	18.76	0.00	0.00	
NOVEMBER	36.62	67.16	0.00	0.00	0.00	
DECEMBER	71.86	23.79	0.00	0.00	0.00	
JANUARY	16.70	36.68	0.00	0.00	0.00	
FEBRUARY	22.91	34.96	7.55	0.00	0.00	
MARCH	21.60	51.76	0.00	0.00	0.00	
ANNUAL	28.56	44.70	15.99	4.59	0.00	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		SIKKA EXTN. 3-4				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		0 MW	0 MW	500 MW	500 MW	500 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		-	-	85%	85%	85%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	-	-	0.00	55.49	104.96	2015-16: Under Stabilisation
MAY	-	-	0.00	68.91	106.50	
JUNE	-	-	0.00	43.58	83.28	2016-17: CRH hanger problem
JULY	-	-	0.00	47.30	69.44	
AUGUST	-	-	0.00	93.99	89.83	2017-18: a) AOH, b) APH chalking problem, c) BTL & MSSV problem
SEPTEMBER	-	-	50.70	51.55	67.72	
OCTOBER	-	-	33.97	58.95	88.99	
NOVEMBER	-	-	49.46	83.94	85.10	
DECEMBER	-	-	59.65	100.96	68.80	
JANUARY	-	-	38.27	108.13	86.67	
FEBRUARY	-	-	75.22	95.37	78.84	
MARCH	-	-	39.07	107.06	83.59	
ANNUAL	-	-	36.01	76.31	84.49	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	-	-	0.00	55.71	78.76	2015-16: Under Stabilisation
MAY	-	-	0.00	50.94	85.14	
JUNE	-	-	0.00	37.68	56.17	2016-17: Backing down
JULY	-	-	0.00	11.44	2.71	
AUGUST	-	-	0.00	0.00	31.94	2017-18: a) AOH, b) APH chalking problem, c) BTL & MSSV problem, d) RSD
SEPTEMBER	-	-	47.88	23.55	60.53	
OCTOBER	-	-	33.33	43.81	75.01	
NOVEMBER	-	-	33.14	62.64	75.98	
DECEMBER	-	-	37.83	80.62	53.85	
JANUARY	-	-	25.26	59.61	74.74	
FEBRUARY	-	-	25.82	54.56	69.12	
MARCH	-	-	35.06	82.30	71.26	
ANNUAL	-	-		46.86	61.13	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		KLTPS 1-3				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		215 MW	215 MW	215 MW	215 MW	215 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		75%	75%	75%	75%	75%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	84.75	84.26	55.05	92.64	79.38	2014-15: Planned outage of Unit 3 to attend turbine vibration problem
MAY	80.05	64.34	37.59	93.95	91.79	
JUNE	73.77	56.33	49.19	83.51	81.37	
JULY	51.63	59.82	51.27	87.52	79.49	2015-16: APH basket problem
AUGUST	57.01	53.10	68.50	80.02	71.47	
SEPTEMBER	57.92	53.24	88.95	85.36	59.56	2017-18: a) BTL & Clinker problem, b) Coal mill problem
OCTOBER	88.20	56.81	74.85	80.85	81.44	
NOVEMBER	88.23	57.23	71.85	62.90	51.23	
DECEMBER	82.74	78.10	92.07	62.43	64.92	
JANUARY	83.03	76.60	97.18	95.34	33.38	
FEBRUARY	81.06	61.35	89.95	82.77	50.54	
MARCH	81.87	73.63	74.80	70.40	41.66	
ANNUAL	75.81	64.62	70.89	81.47	65.62	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	84.51	86.64	58.15	92.86	70.81	2014-15: Planned outage of Unit 3 to attend turbine vibration problem
MAY	78.91	66.17	39.35	90.69	81.37	
JUNE	71.71	59.73	45.77	83.63	72.69	
JULY	16.39	62.64	52.17	87.01	6.86	2015-16: APH basket problem
AUGUST	54.62	55.23	68.85	43.57	40.01	
SEPTEMBER	58.97	55.66	88.55	43.48	55.89	2016-17: Backing down 2017-18: a) BTL & Clinker problem, b) Coal mill problem
OCTOBER	90.15	58.49	75.37	21.77	78.38	
NOVEMBER	87.41	59.04	68.49	31.49	50.60	
DECEMBER	85.37	79.17	74.12	54.23	59.99	
JANUARY	84.35	77.72	86.74	41.22	32.79	
FEBRUARY	83.82	62.58	85.05	53.81	48.97	
MARCH	82.14	75.02	74.10	64.04	42.04	
ANNUAL	76.10	66.56	68.00	59.01	53.30	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		KLTPS 4				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		75 MW	75 MW	75 MW	75 MW	75 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		80%	80%	80%	80%	80%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	64.68	48.24	28.64	68.47	56.16	2013-14: Forced outage due to BTL
MAY	75.15	85.80	46.31	67.65	16.01	
JUNE	76.10	69.39	39.38	67.07	51.81	2014-15: APH & FBHE problem & Forced outages
JULY	67.96	43.82	32.73	85.07	73.25	
AUGUST	78.81	82.95	0.00	57.81	41.17	2015-16: APH block problem
SEPTEMBER	73.82	50.02	0.00	41.90	30.18	2016-17: a) BTL problem b) FBHE & NMEJ leakages problem
OCTOBER	81.28	51.04	55.40	91.31	53.35	
NOVEMBER	53.95	32.85	56.62	96.10	0.00	2017-18: a) Seal Pot problm, b) Cyclone repairing, c) NMEJ replacement
DECEMBER	59.81	40.25	74.57	52.96	72.55	
JANUARY	36.34	48.26	49.60	47.14	49.26	
FEBRUARY	46.05	61.43	64.23	76.47	79.73	
MARCH	2.22	53.09	90.27	60.99	65.91	
ANNUAL	59.71	55.61	44.86	67.67	49.02	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	67.30	47.18	32.24	71.44	52.38	2013-14: Forced outage due to BTL
MAY	77.79	87.55	53.29	70.60	16.54	
JUNE	72.95	67.73	47.88	70.13	55.55	2014-15: APH & FBHE problem & Forced outages
JULY	60.48	42.80	38.57	89.93	13.39	
AUGUST	72.30	81.76	0.00	33.23	31.36	2015-16: APH block problem
SEPTEMBER	70.00	50.09	0.00	9.96	31.63	2016-17: a) BTL problem b) FBHE & NMEJ leakages problem
OCTOBER	78.90	56.53	58.27	73.54	57.00	
NOVEMBER	49.38	36.34	60.43	78.72	0.00	2017-18: a) Seal Pot problm, b) Cyclone repairing, c) NMEJ replacement
DECEMBER	56.15	44.06	80.54	45.32	75.09	
JANUARY	34.09	52.36	52.35	35.22	51.82	
FEBRUARY	43.95	67.07	68.02	50.49	83.56	
MARCH	2.08	58.04	95.04	53.18	70.90	
ANNUAL	57.27	57.63	48.96	56.86	44.73	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIEVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		DHUVARAN CCPP 1				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		106.617 MW	106.617 MW	106.617 MW	106.617 MW	106.617 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		80%	80%	80%	85%	85%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	96.69	96.59	98.54	83.91	14.63	2016-17: Rotor Earth Fault problem
MAY	96.66	99.59	99.25	99.03	0.00	2017-18: Rotor Earth Fault problem
JUNE	96.15	99.59	95.04	99.04	29.58	
JULY	97.94	99.59	76.67	97.72	100.63	
AUGUST	99.59	73.75	69.41	99.60	100.63	
SEPTEMBER	97.52	99.59	89.31	98.68	88.81	
OCTOBER	99.56	97.40	99.60	99.60	96.08	
NOVEMBER	99.59	99.59	99.60	98.55	96.94	
DECEMBER	99.59	99.16	99.60	81.20	100.48	
JANUARY	99.59	98.16	89.52	0.00	100.34	
FEBRUARY	99.59	49.80	99.60	0.00	83.80	
MARCH	99.59	92.51	98.97	10.71	72.64	
ANNUAL	98.51	92.63	92.86	72.68	73.39	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	0.00	0.00	3.55	33.69	11.77	2013-14: Backing down
MAY	28.53	0.00	6.03	9.38	0.00	2014-15: Low schedule
JUNE	10.82	0.00	47.31	1.89	82.00	2015-16: Low schedule
JULY	0.00	0.00	18.08	7.26	0.00	2016-17: Backing down
AUGUST	0.19	2.91	17.51	1.10	14.35	2017-18: Rotor Earth Fault problem
SEPTEMBER	0.39	0.08	23.79	10.59	60.49	
OCTOBER	16.87	6.74	0.00	10.13	64.80	
NOVEMBER	0.03	5.39	0.00	14.47	31.12	
DECEMBER	0.00	12.64	0.00	28.17	38.41	
JANUARY	0.00	11.77	0.00	0.00	8.48	
FEBRUARY	0.00	0.52	0.00	0.00	2.66	
MARCH	0.00	0.86	1.60	10.25	18.29	
ANNUAL	4.80	3.46	9.78	10.62	21.03	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		DHUVARAN CCPP 2				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		112.45 MW	112.45 MW	112.45 MW	112.45 MW	112.45 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		85%	85%	85%	85%	85%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	95.23	99.03	98.33	81.60	20.39	2016-17: Planned Outage
MAY	77.72	99.01	98.78	96.83	97.76	2017-18: MI, HGPI, CI shutdown
JUNE	95.31	99.01	99.01	98.89	93.93	
JULY	96.88	98.46	98.30	85.77	99.93	
AUGUST	98.94	89.98	99.01	35.13	99.93	
SEPTEMBER	98.88	98.50	98.39	48.02	65.03	
OCTOBER	99.01	98.30	93.49	99.01	39.37	
NOVEMBER	98.91	98.45	99.01	98.91	98.49	
DECEMBER	98.96	99.01	83.90	99.64	99.93	
JANUARY	98.80	99.01	85.37	95.75	99.33	
FEBRUARY	99.00	99.01	99.01	98.19	93.19	
MARCH	98.70	98.52	69.75	55.77	91.84	
ANNUAL	96.33	98.01	93.44	82.68	83.16	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	22.47	12.11	25.43	26.37	15.60	2013-14: Backing down
MAY	0.09	11.22	25.04	25.42	66.71	2014-15: Low schedule
JUNE	13.21	13.26	7.00	16.90	63.19	2015-16: Low schedule
JULY	0.00	21.32	3.72	1.51	49.16	
AUGUST	8.73	20.71	5.46	0.00	31.69	
SEPTEMBER	42.47	1.97	2.66	4.96	12.98	
OCTOBER	12.52	19.64	48.61	6.42	11.00	
NOVEMBER	36.15	19.69	47.60	22.37	36.70	
DECEMBER	19.36	10.50	44.33	15.02	33.22	
JANUARY	4.78	5.73	61.05	40.77	58.14	
FEBRUARY	5.15	10.80	80.15	52.94	46.22	
MARCH	33.91	12.65	45.63	44.38	39.80	
ANNUAL	16.13	13.34	32.94	21.20	37.79	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		DHUVARAN CCPP 3				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		-	-	-	-	376.1 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		-	-	-	85%	85%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NPAF
APRIL	-	-	-	-	99.00	2017-18: a) Shortage of DM water, b) HOTWELL conductivity problem, c) RSD
MAY	-	-	-	-	63.22	
JUNE	-	-	-	-	100.63	
JULY	-	-	-	-	100.63	
AUGUST	-	-	-	-	100.63	
SEPTEMBER	-	-	-	-	31.89	
OCTOBER	-	-	-	-	54.46	
NOVEMBER	-	-	-	-	100.60	
DECEMBER	-	-	-	-	100.60	
JANUARY	-	-	-	-	100.60	
FEBRUARY	-	-	-	-	93.41	
MARCH	-	-	-	-	53.77	
ANNUAL	-	-	-	-	83.19	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	-	-	-	-	0.00	2017-18: a) Shortage of DM water, b) HOTWELL conductivity problem, c) RSD
MAY	-	-	-	-	3.59	
JUNE	-	-	-	-	0.00	
JULY	-	-	-	-	0.00	
AUGUST	-	-	-	-	0.00	
SEPTEMBER	-	-	-	-	0.03	
OCTOBER	-	-	-	-	5.88	
NOVEMBER	-	-	-	-	0.00	
DECEMBER	-	-	-	-	0.00	
JANUARY	-	-	-	-	0.00	
FEBRUARY	-	-	-	-	0.00	
MARCH	-	-	-	-	0.74	
ANNUAL	-	-	-	-	0.89	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		UTRAN GAS				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		135 MW	135 MW	135 MW	135 MW	0 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		80%	80%	80%	85%	-
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NPAF
APRIL	99.98	99.98	99.99	28.30	0.00	2016-17: Outage due to Long Restoration Time, b] D'commissioned from 22.01.17
MAY	99.98	99.98	99.99	0.00	0.00	
JUNE	99.98	99.99	99.99	0.00	0.00	
JULY	99.98	100.02	99.99	0.00	0.00	
AUGUST	99.98	99.78	99.99	96.76	0.00	
SEPTEMBER	99.98	100.00	99.99	99.99	0.00	
OCTOBER	99.98	99.98	99.99	99.99	0.00	
NOVEMBER	99.98	99.99	99.99	99.99	0.00	
DECEMBER	99.98	99.99	99.85	99.99	0.00	
JANUARY	99.99	99.99	99.99	99.99	0.00	
FEBRUARY	99.99	99.99	99.99	0.00	0.00	
MARCH	99.99	99.99	99.99	0.00	0.00	
ANNUAL	99.98	99.98	99.98	61.44	0.00	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	0.00	0.00	0.00	0.00	0.00	2013-14: Backing down
MAY	0.00	0.00	0.00	0.00	0.00	2014-15: Low schedule
JUNE	0.00	0.00	0.00	0.00	0.00	2015-16: Low schedule
JULY	0.00	0.00	0.00	0.00	0.00	2016-17: Outage due to Long Restoration Time, b] D'commissioned from 22.01.17
AUGUST	0.00	0.00	0.00	0.00	0.00	
SEPTEMBER	0.00	0.00	0.00	0.00	0.00	
OCTOBER	0.00	0.00	0.00	0.00	0.00	
NOVEMBER	0.00	0.00	0.00	0.00	0.00	
DECEMBER	0.00	0.00	0.00	0.00	0.00	
JANUARY	0.00	0.00	0.00	0.00	0.00	
FEBRUARY	0.00	0.00	0.00	0.00	0.00	
MARCH	0.00	0.00	0.00	0.00	0.00	
ANNUAL	0.00	0.00	0.00	0.00	0.00	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		UTRAN EXTENSION				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		375 MW	375 MW	375 MW	375 MW	375 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		80%	80%	80%	85%	85%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NAPAF
APRIL	96.72	99.99	98.89	82.46	100.08	---
MAY	99.99	99.99	98.35	99.11	97.77	
JUNE	99.99	99.99	96.49	100.00	99.32	
JULY	99.99	98.43	96.74	100.00	100.00	
AUGUST	99.52	99.95	24.15	100.00	100.00	
SEPTEMBER	99.99	99.99	63.90	100.00	66.02	
OCTOBER	99.99	98.56	96.32	100.00	75.02	
NOVEMBER	99.99	99.76	98.22	100.00	98.77	
DECEMBER	99.99	99.89	99.35	100.00	99.99	
JANUARY	100.00	99.99	62.91	100.00	99.99	
FEBRUARY	99.99	99.99	17.07	100.00	80.73	
MARCH	100.00	99.60	100.01	100.01	63.61	
ANNUAL	99.69	99.68	79.60	98.48	90.18	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	3.06	0.00	5.26	38.91	0.28	2013-14: Backing down
MAY	0.00	0.00	7.12	7.13	10.53	2014-15: Low schedule
JUNE	0.00	0.00	38.61	3.35	7.02	2015-16: Low schedule
JULY	0.00	7.24	40.62	0.00	0.00	2016-17: RSD
AUGUST	0.02	12.45	12.75	0.00	1.19	2017-18: RSD, NON availability of
SEPTEMBER	0.00	0.00	63.00	18.00	28.51	gas
OCTOBER	0.00	18.47	62.07	0.00	12.31	
NOVEMBER	0.00	1.32	27.33	0.00	8.69	
DECEMBER	0.00	0.00	77.37	83.00	3.16	
JANUARY	0.00	0.00	42.97	0.00	7.78	
FEBRUARY	0.00	0.00	12.09	0.00	0.00	
MARCH	0.00	8.47	72.37	7.34	14.40	
ANNUAL	0.25	4.07	38.66	4.79	7.85	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIEVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		UKAI HYDRO				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		305 MW	305 MW	305 MW	305 MW	305 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		80%	80%	80%	80%	80%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NPAF
APRIL	96.70	96.41	48.70	96.43	97.27	2014-15: Unit operated as per Irrigation schedule
MAY	96.75	96.41	48.48	91.75	97.32	
JUNE	79.54	96.41	64.15	88.49	96.91	
JULY	92.52	92.52	68.41	93.20	96.84	
AUGUST	96.41	88.63	85.24	97.21	97.20	
SEPTEMBER	96.41	80.36	97.19	97.21	95.98	
OCTOBER	94.77	72.30	97.23	97.23	93.97	
NOVEMBER	96.41	72.31	97.21	97.21	97.12	
DECEMBER	90.96	72.31	97.14	96.56	96.10	
JANUARY	79.30	72.31	96.85	87.41	96.92	
FEBRUARY	96.41	49.93	97.03	96.89	95.93	
MARCH	95.77	48.21	96.92	98.00	96.99	
ANNUAL	92.64	78.32	82.87	94.78	96.55	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	19.60	44.57	28.76	25.48	31.62	2017-18: Unit operated as per Irrigation schedule
MAY	23.02	27.63	19.95	18.45	26.20	
JUNE	3.92	25.28	5.07	0.00	10.08	
JULY	37.65	21.11	8.58	6.68	5.75	
AUGUST	99.04	20.00	34.19	24.08	4.30	
SEPTEMBER	48.74	56.27	14.44	9.75	3.95	
OCTOBER	61.42	25.19	23.20	9.55	8.42	
NOVEMBER	17.13	21.77	20.34	27.93	15.78	
DECEMBER	9.55	18.61	14.63	7.74	13.45	
JANUARY	3.57	11.02	6.66	1.98	0.62	
FEBRUARY	28.21	21.84	24.14	24.78	17.62	
MARCH	23.56	25.92	22.79	28.47	8.86	
ANNUAL	31.41	26.53	18.55	15.33	12.14	

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIVED

Generating company:		GUJARAT STATE ELE. CO. LTD.				
Name of Generating station:		KADANA HYDRO				
Installed Capacity [MW]:		2013-14	2014-15	2015-16	2016-17	2017-18
		242 MW	242 MW	242 MW	242 MW	242 MW
Normative Annual Plant Availability Factor [%] approved by Commission:		2013-14	2014-15	2015-16	2016-17	2017-18
		80%	80%	80%	80%	80%
PLANT AVAILABILITY FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PAF achieved vis-à-vis NPAF
APRIL	72.76	97.02	72.77	97.02	93.62	---
MAY	72.76	97.02	72.77	97.02	96.54	
JUNE	72.76	97.02	73.18	97.02	96.35	
JULY	66.06	97.02	97.02	97.02	84.57	
AUGUST	72.51	97.02	97.02	79.39	89.72	
SEPTEMBER	71.60	76.16	97.02	89.14	86.58	
OCTOBER	74.16	72.76	97.02	96.09	91.83	
NOVEMBER	97.01	72.77	97.02	97.02	94.84	
DECEMBER	97.02	72.77	97.02	95.82	94.21	
JANUARY	92.32	84.50	97.02	95.29	92.75	
FEBRUARY	97.02	78.83	97.02	92.73	87.78	
MARCH	97.02	72.77	97.02	95.07	94.64	
ANNUAL	81.83	84.68	91.03	94.05	91.98	

PLANT LOAD FACTOR ACHIEVED [%]						
MONTH	2013-14	2014-15	2015-16	2016-17	2017-18	Reason for shortfall in PLF achieved vis-à-vis Target PLF
APRIL	0.22	3.93	3.85	4.37	4.24	---
MAY	2.07	2.43	4.15	3.77	0.75	
JUNE	5.85	7.38	2.58	2.17	0.82	
JULY	36.49	15.18	27.43	1.73	28.05	
AUGUST	66.02	19.21	54.80	46.15	33.52	
SEPTEMBER	39.30	29.85	20.13	57.53	43.99	
OCTOBER	45.40	5.72	9.16	32.51	12.64	
NOVEMBER	6.01	5.38	3.95	7.18	9.78	
DECEMBER	10.13	7.72	7.49	12.21	11.62	
JANUARY	9.98	8.92	10.20	13.41	12.66	
FEBRUARY	3.90	12.26	10.97	11.98	14.53	
MARCH	6.92	4.48	5.02	3.55	4.55	
ANNUAL	19.56	10.17	13.39	16.40	14.77	

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

Name of the Company:		Gujarat State Electricity Corporation Ltd.			
Name of Power Station		Ukai 1-5			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	3200.89	2845.68	2687.53	4054.90
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	0.00	0.00	13.12	26.10
6	ADMINISTRATIVE EXPENSES:	1992.05	1679.87	1877.88	2161.84
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	9630.55	10252.91	10297.44	10378.39
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	5335.51	1692.63	1217.03	3557.77
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	20159.00	16471.09	16093.00	20179.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

Name of the Company:	Gujarat State Electricity Corporation Ltd.
Name of Power Station	Ukai 6

(Rs. In Lakhs)

Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	3	4	5	6
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	82.85	786.35	1053.94	1249.95
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	0.00	0.00	10.37	0.00
6	ADMINISTRATIVE EXPENSES:	39.40	325.47	357.36	294.76
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	497.26	882.31	1076.04	1154.74
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	14.49	999.87	715.29	402.55
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	634.00	2994.00	3213.00	3102.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

Name of the Company:		Gujarat State Electricity Corporation Ltd.			
Name of Power Station		Gandhinagar 1-4			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	1320.20	744.94	744.94	1342.62
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	410.65	944.30	944.30	1018.52
6	ADMINISTRATIVE EXPENSES:	686.15	643.83	629.81	655.74
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	6501.49	6762.94	6932.23	5921.74
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	1931.51	2431.00	608.73	944.38
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	10850.00	11527.00	9860.00	9883.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

Name of the Company:		Gujarat State Electricity Corporation Ltd.			
Name of Power Station		Gandhinagar - 5			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	201.00	85.00	185.00	222.10
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	510.00	75.75	405.00	1242.73
6	ADMINISTRATIVE EXPENSES:	147.53	55.55	157.45	301.10
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	1625.37	185.00	1678.35	2960.87
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	96.10	29.70	105.20	188.20
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	2580.00	431.00	2531.00	4915.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

Annexure VI(A)

DETAILS OF OPERATION AND MAINTENANCE EXPENSES					
(To be filled for each of the Thermal /Hydro Generating Station)					
	Name of the Company:	Gujarat State Electricity Corporation Ltd.			
	Name of Power Station	Wanakbori 1-6			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	3022.00	4352.10	3520.00	5322.59
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	1895.36	2136.03	1862.00	2395.36
6	ADMINISTRATIVE EXPENSES:	779.23	1000.03	938.68	1060.32
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	9039.65	9838.69	9649.32	10251.07
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	2128.76	2222.15	1985.00	1046.66
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	16865.00	19549.00	17955.00	20076.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

Name of the Company:		Gujarat State Electricity Corporation Ltd.			
Name of Power Station		Wanakbori - 7			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	255.15	268.13	278.91	345.23
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	317.55	319.11	328.99	490.12
6	ADMINISTRATIVE EXPENSES:	75.39	71.15	81.30	46.82
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	733.85	732.61	711.28	762.77
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	235.06	201.00	132.52	235.06
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	1617.00	1592.00	1533.00	1880.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

	Name of the Company:	Gujarat State Electricity Corporation Ltd.			
	Name of Power Station	STPS 1-2			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	1067.39	1155.47	1145.48	568.29
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	262.13	250.72	228.30	189.72
6	ADMINISTRATIVE EXPENSES:	618.53	558.63	415.20	1237.59
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	3460.75	3884.73	3946.73	3917.00
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	1485.20	226.45	119.30	1187.40
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	6894.00	6076.00	5855.00	7100.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

Name of the Company:	Gujarat State Electricity Corporation Ltd.
Name of Power Station	Sikka # 3 & 4

(Rs. In Lakhs)

Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	0.00	0.00	0.00	132.61
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	0.00	0.00	118.58	181.97
6	ADMINISTRATIVE EXPENSES:	0.00	0.00	100.97	386.04
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	0.00	0.00	251.19	896.07
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION			614.27	121.31
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	0.00	0.00	1085.00	1718.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

	Name of the Company:	Gujarat State Electricity Corporation Ltd.			
	Name of Power Station	KLTPS 1-3			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	3032.04	3167.35	4004.57	2792.71
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	55.86	55.23	43.06	42.52
6	ADMINISTRATIVE EXPENSES:	661.65	572.22	525.45	565.17
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	4579.97	4716.06	5024.95	4623.84
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	1956.48	367.14	267.97	1544.76
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	10286.00	8878.00	9866.00	9569.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

Name of the Company:		Gujarat State Electricity Corporation Ltd.			
Name of Power Station		KLTPS-4			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	33.57	478.37	704.32	396.75
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	14.66	10.37	13.16	13.55
6	ADMINISTRATIVE EXPENSES:	119.36	168.80	187.37	192.87
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	353.69	526.33	616.76	516.72
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	277.71	143.13	96.39	176.11
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	799.00	1327.00	1618.00	1296.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

Name of the Company:	Gujarat State Electricity Corporation Ltd.
Name of Power Station	Dhuvaran CCPP-I

(Rs. In Lakhs)

Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	643.53	613.76	901.87	836.91
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITY				
5	WATER CHARGES	19.81	5.05	21.48	2.38
6	ADMINISTRATIVE EXPENSES:	198.85	266.28	234.29	263.42
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	1072.55	1224.55	1360.51	1348.79
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	530.24	213.36	64.87	468.51
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	2465.00	2323.00	2583.00	2920.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

	Name of the Company:	Gujarat State Electricity Corporation Ltd.			
	Name of Power Station	Dhuvaran CCPP-II			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	643.53	613.76	901.87	836.91
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	70.50	20.57	76.27	5.01
6	ADMINISTRATIVE EXPENSES:	198.31	266.28	234.29	263.42
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	1072.55	1224.55	1360.51	1348.79
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	477.10	197.85	152.07	465.88
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	2462.00	2323.00	2725.00	2920.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

Name of the Company:	Gujarat State Electricity Corporation Ltd.
Name of Power Station	Dhuvaran CCPP-III

(Rs. In Lakhs)

Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE		0.00	21.99	60.33
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES		0.00	0.00	0.00
6	ADMINISTRATIVE EXPENSES:		133.31	167.20	166.24
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST		195.53	115.76	80.41
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION		1190.49	765.41	1309.24
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	0.00	1519.33	1070.35	1616.22
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

	Name of the Company:	Gujarat State Electricity Corporation Ltd.			
	Name of Power Station	Utran GBPS-1			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	146.39	102.36	241.85	252.37
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	18.07	9.84	5.54	0.00
6	ADMINISTRATIVE EXPENSES:	234.81	212.89	199.66	326.41
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	1565.91	155.48	279.96	183.54
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	657.82	1610.43	180.99	90.68
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	2623.00	2091.00	908.00	853.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

	Name of the Company:	Gujarat State Electricity Corporation Ltd.			
	Name of Power Station	Utran Extension			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	3528.71	1042.10	2057.29	2338.04
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	32.92	3.33	364.26	93.65
6	ADMINISTRATIVE EXPENSES:	228.94	171.47	149.96	145.80
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	193.08	564.98	1449.67	1543.92
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	493.33	356.12	181.81	448.59
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	4477.00	2138.00	4203.00	4570.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

	Name of the Company:	Gujarat State Electricity Corporation Ltd.			
	Name of Power Station	Ukai Hydro			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	122.79	1036.71	192.23	497.53
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	0.00	0.00	0.00	0.00
6	ADMINISTRATIVE EXPENSES:	42.71	48.83	34.75	41.05
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	689.28	737.41	760.66	736.95
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	131.22	610.05	442.37	236.47
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	986.00	2433.00	1430.00	1512.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				

DETAILS OF OPERATION AND MAINTENANCE EXPENSES

(To be filled for each of the Thermal /Hydro Generating Station)

	Name of the Company:	Gujarat State Electricity Corporation Ltd.			
	Name of Power Station	Kadana Hydro			
(Rs. In Lakhs)					
Sr. No.	ITEM	2013-14	2014-15	2015-16	2016-17
1	2	4	5	6	7
(A)	BREAKUP OF O&M EXPENSES:				
1	CONSUMPTION OF STORES AND SPARES				
2	REPAIR AND MAINTENANCE	480.59	270.69	256.99	441.91
3	INSURANCE				
4	SECURITY (NORMAL)				
4.1	ADDITIONAL SECURITY IT ANY ON THE ADVISE OF GOVT. AGENCY/STATUTORY AUTHORITYF				
5	WATER CHARGES	0.00	0.00	0.00	0.00
6	ADMINISTRATIVE EXPENSES:	99.84	98.60	107.32	156.38
6.1	RENT				
6.2	ELECTRICITY CHARGES				
6.3	TRAVELING AND CONVEYANCE				
6.4	COMMUNICATION EXPENSES				
6.5	ADVERTISING				
6.6	FOUNDATION LAYING AND INAUGURATION				
6.7	DONATIONS				
6.8	ENTERTAINMENT				
6.9	FILING FEES				
	SUB- TOTAL (ADMINISTRATIVE EXPENSES)				
7	EMPLOYEE COST	982.61	1073.71	1139.83	1129.36
7.1	SALARIES, WAGES AND ALLOWANCES				
7.2	STAFF WELFARE EXPENSES				
7.3	PRODUCTIVITY LINKED INCENTIVE				
7.4	EXPENDITURE ON VRS				
7.5	EX-GRATIA				
7.6	PERFOMANCE RELATED PAY (PRP)				
	SUB-TOTAL (EMPLOYEE COST)				
8	LOSS OF STORE				
9	PROVISIONS				
10	PRIOR PERIOD ADJUSTMENT , IF ANY				
11	CORPORATE OFFICE EXPENSES ALLOCATION	295.96	483.00	350.87	375.35
12	OTHER (SPECIFY ITEMS)				
13	TOTAL (1 TO 12)	1859.00	1926.00	1855.00	2103.00
14	REVENUE / RECOVERIES,IF ANY				
15	NET EXPENSES				
16	CAPITAL SPARES CONSUMED NOT INCLUDED IN (A) (1) ABOVE AND NOT CLAIMED/ALLOWED BY COMMISSION FOR				



RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LTD.

Corporate Identity Number (CIN) – U40102RJ2000SGC016484

Regd. Office & H.O.: Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur-302005

OFFICE OF THE ADDL. CHIEF ENGINEER (PPMC&IT)

Room No. 304, 3rd Floor, LIC Building-II, Janpath, Jyoti Nagar,
Jaipur-302005

E-mail: se.comml@rrvun.com



No. RVUN/ACE (PPMC&IT)/ SE (Comml.)/ F. /D. 484

Dated 4.6.18

The Chief (Engineering),
Central Electricity Regulatory Commission
Third Floor, Chanderlok Building, 36, Janpath,
New Delhi-110001

Sub: Terms & Conditions for Tariff Period 2019-24 specifying of Operational Norms for Thermal Power Stations.

Ref: - Your D.O. No. L-1/225/2017-CERC dated 09.05.2018

Please refer aforesaid letter dated 09.05.2018 of your good office, Kindly find enclosed herewith additional information for finalizing operational norms for Tariff period 2019-24 starting from 01.04.2019 for Thermal Power Stations in the desired format.

Encls: As above.

(A.K.Saxena) 4/6/18

Addl. Chief Engineer (PPMC&IT)
RVUN, Jaipur.

Copy submitted/ forwarded to following for kind information and necessary action please: -

1. The Director (Technical/ Project/ Finance), RVUN, Jaipur.
2. The Superintending Engineer (Comml.), RVUN, Jaipur.
3. TA to CMD, RVUN, Jaipur.

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(A.K.Saxena)

Addl. Chief Engineer (PPMC&IT)
RVUN, Jaipur.

Annexure									
A.	Proforma for annual performance/operational data of the COAL/ LIGNITE based thermal generating stations for the 5 year period from 2013-14 to 2017-18								
Sl. No.	Particulars	Units	2013-14	2014-15	2015-16	2016-17	2017-18	Remarks	
1	Name of Company		Rajasthan Rajya Vidyut Utpadan Nigam Limited, Vidyut Bhavan, Janpath, Jaipur, Rajasthan.						
2	Name of Station		Suratgarh Super Thermal Power Station, Suratgarh, Distt. Sriganganagar, Rajasthan. PIN.-335805 245252 , Fax 01509-245299 Tel. 01509-						
3	Installed Capacity and Configuration		6X250 MW						
4	Year/ date of installation		1	01-FEB-1999					
			2	01-OCT-2000					
			3	15-JAN-2002					
			4	31-JUL-2002					
			5	19-AUG-2003					
			6	30-Dec-09					
5	Type of the plant and make of boiler & turbine		Thermal Power Plant and BHEL make						
6	Rated Steam parameters at turbine inlet		154.1 kg/cm2 and 540 DegC						
7	Type of BFP & its configuration		Electric Motor Driven						
8	Type of Condenser cooling system (Once-through / IDCT / NDCT/ Dry cooling)		Closed Cycle with Cooling Towers for each Unit(IDCT)						
9	Key details of dry cooling system, if applicable		NA						
10	Design coal analysis & GCV for boiler design		FC-27%,VM-18%,TM-10%,ASH-45%,GCV-3500kcal/kg						
11	Design/ guaranteed boiler efficiency at 100% MCR		87.76%						
12	Gross heat rate of TG Cycle at design condition	100%MCR	U#1 to 5 1951 kcal/kWh and U#6 1946 kcal/kWh						
13	Gross heat rate of TG Cycle at guarantee condition		U#1 to 5 1951 kcal/kWh and U#6 1946 kcal/kWh						
14	Condenser pressure for design condition		0.1033ata						
15	Condenser pressure for guarantee condition		0.1033ata						
16	Guaranteed Auxiliary power consumption of the unit/ plant at 100% MCR condition and its break up		9%						
17	Any other relevant information/ data on plant design aspects		Nil						
18	Main Fuel:								
18.1	Domestic Coal:		Bituminous						
18.1.1	Billed quantity of domestic coal	MT	5902405	6475217	3706277	2640090	2749858		
18.1.2	Weighted average As Billed GCV of coal & its basis	kcal/kg	4928	4894	4713	4579	4530		
18.1.3	Quantity of coal received at the plant	MT	5958287	6431151	3678721	2629387	2730354.92		
18.1.4	Weighted average As Received GCV of coal & its basis	kcal/kg	-	4234	4018	4023	3933		
18.1.5	Transportation distance of station from sources of supply	km	1373-1717						
18.1.6	Mode of transport		Rail						
18.1.7	Weighted average compensation for transportation loss	MT	-	44066.00	27556.00	10703.00	19503.08		
18.1.8	Weighted average compensation for GCV loss etc. at plant end	kcal/kg	-	659.71	695	556	597		
18.2	Imported Coal:								
18.2.1	Quantity of Imported coal	MT	120968	725238	80035	0	0		
18.2.2	Weighted average GCV of imported coal & its basis	kcal/kg	6600.00	6268.08	6328.73	0.00	0.00		

18.2.3	Transportation distance of station from port of supply	km	1050-1100					
18.2.4	Weighted average compensation for transportation loss	% or MT	0	0	0	0	0	
18.3	Weighted average GCV of coal on As Fired basis	kcal/kg	3843.00	3837.00	3986.00	3996.00	3931.00	
18.4	Any other relevant information on main fuel							
19	Support fuel:		HFO/HSD/LDO					
19.1	Support fuel consumption	kl	8110.52	5860.06	7832.17	7020.34	6784.08	
19.2	Weighted average GCV of support fuel (As received)	kcal/l	9480.00	9761.74	9774.19	9835.57	9781.00	
19.3	Any other relevant information on support fuel							
20	Gross Energy Generation	MU	9409.02	10097.26	5902.98	4474.71	4964.45	
21	Total Operating Hours	Hrs.	6980.09	7421.18	4458.05	3386.88	3809.68	
22	Weighted average Unit/ Module Loading (Station)	MW	1347.98	1360.60	1324.12	1321.19	1303.11	
23	Net Energy Generation (Ex- Bus)	MU	8556.32	9152.21	5275.49	4023.28	4453.20	
24	Declared Energy Generation (Ex-Bus)	MU	9584.00	10448.22	9900.71	10255.38	10319.24	
25	Weighted average Declared Capacity	MW/Day	1094.06	1192.72	1130.22	1170.71	1178.00	
26	Auxiliary Energy consumption including colony	MU	852.70	945.05	627.49	451.43	511.25	
27	Energy consumption of colony	MU	NIL	NIL	NIL	NIL	NIL	
28	Plant Outages	MU	109.185	138.225	174.425	20.045	45.8225	
28.1	Schedule outage	MU	67.17	119.28	679.93	1051.47	946.96	
28.2	Forced outage	MU	268.63	92.93	227.14	271.76	244.80	
28.3	Total outage	MU	444.98	350.44	1081.49	1343.28	1237.58	
28.4	Number of trippings	Nos.	92.00	79.00	82.00	86.00	88.00	
29	Number of Start- ups & Oil consumption							
29.1	Number of Cold starts- ups	Nos.	22.00	18.00	45.00	46.00	56.00	
29.2	Oil consumption for Cold starts- ups	kl	2647.87	2472.89	5237.69	4875.91	4906.91	
29.3	Number of Warm starts- ups	Nos.	26.00	20.00	6.00	11.00	7.00	
29.4	Oil consumption for Warm starts- ups	kl	1652.15	1009.17	1175.64	682.01	237.07	
29.5	Number of Hot starts- ups	Nos.	39.00	39.00	33.00	29.00	30.00	
29.6	Oil consumption for Hot starts- ups	kl	1091.17	947.10	893.44	998.11	848.21	
30	In case of CFBC power plants:							
30.1	Limestone/ reagent consumption	Tonne	NA	NA	NA	NA	NA	
30.2	Purity of limestone/ reagent used	%	NA	NA	NA	NA	NA	
31	For units/ stations having FGD system:		NA	NA	NA	NA	NA	
31.1	Capacity having FGD installations	MW	NA	NA	NA	NA	NA	
31.2	Type of FGD system		NA	NA	NA	NA	NA	
31.3	Key components of FGD system		NA	NA	NA	NA	NA	
31.4	FGD % flue gas treatment	%	NA	NA	NA	NA	NA	
31.5	Gross Energy Generation of units/ stations having FGD system	MU	NA	NA	NA	NA	NA	
31.6	Energy consumption of FGD system	MU	NA	NA	NA	NA	NA	
31.7	For wet limestone based FGD system:		NA	NA	NA	NA	NA	
31.7.1	Limestone/ reagent consumption	Tonne	NA	NA	NA	NA	NA	
31.7.2	Purity of limestone/ reagent used	%	NA	NA	NA	NA	NA	
32	Any other relevant information/ data		NA	NA	NA	NA	NA	
Note: Attach separate sheet, wherever required.								

Remark Fuel related data has been provided by Fuel Wing,STPS,Suratgarh

Superintending Engineer(Comm.)
RVUN,STPS,Suratgarh

STPS

Annexure- 1										
A. Proforma for annual performance/operational data of the COAL/ LIGNITE based thermal generating stations for the 5 year period from 2013-14 to 2017-18										
Sl. No.	Particulars	Units	2013-14	2014-15	2015-16	2016-17	2017-18	Remarks		
1	Name of Company		RRVUNL							
2	Name of Station		KTPS,KOTA							
3	Installed Capacity and Configuration		1240							
4	Year/ date of installation/First synchronisation									
	U#1		17.01.83							
	U#2		13.07.83							
	U#3		25.09.88							
	U#4		01.05.89							
	U#5		26.03.94							
	U#6		30.07.03							
	U#7		30.05.2009							
5	Type of the plant and make of boiler & turbine		Boiler			Turbine				
	U#1		BHEL			BHEL(SKODA)				
	U#2		BHEL			BHEL(SKODA)				
	U#3		BHEL			BHEL(KWU)				
	U#4		BHEL			BHEL(KWU)				
	U#5		BHEL			BHEL(KWU)				
	U#6		BHEL			BHEL(KWU)				
	U#7		BHEL			BHEL(KWU)				
6	Rated Steam parameters at turbine inlet		as per list enclosed							
7	Type of BFP & its configuration		multistage centrifugal pumps model - 200 KHI in unit I & II,				FK 6D30 in unit III-VII			
8	Type of Condenser cooling system (Once-through / IDCT / NDCT/ Dry cooling)		Unit I to V -Once Through Cooling and Unit VI-VII-IDCT(cooling towers)							
9	Key details of dry cooling system, if applicable									
10	Design coal analysis & GCV for boiler design		for Unit I & II-Fixed Carbon-35%,VM-20%,% moisture-10%,% Ash 35%,GCV-4450 Kcal/Kg							
			for Unit III & IV-Fixed Carbon-30%,VM-25%,% moisture-11.5%,% Ash 33.5%,GCV-4278 Kcal/Kg							
			for Unit V to VII-Fixed Carbon-27%,VM-18%,% moisture-10%,% Ash 45%,GCV-3500 Kcal/Kg							
11	Design/ guaranteed boiler efficiency at 100% MCR	%	Unit I & II-87.94 %, Unit III & IV-86.07 %,Unit V & VI-85.97 %, Unt VII-86.06 %							
12	Gross heat rate of TG Cycle at design condition	Kcal/KWh	Unit I & II-2518, Unit III & IV-2306, Unit V -2309 , Unt VI-2287,Unit VII-2284.45							
13	Gross heat rate of TG Cycle at guarantee condition									
14	Condenser pressure for design condition	Kg/Cm2	Unit I & V= -.88, Unit VI-VII= -.89							
15	Condenser pressure for guarantee condition									
16	Guaranteed Auxiliary power consumption of the unit/ plant at 100% MCR condition and its break up	%	As per RERC Unit-I & II=10.5 Unit III to VII= 9 and station APC is 9.27 %							
17	Any other relevant information/ data on plant design aspects									
18	Main Fuel:									
18.1	Domestic Coal:									
18.1.1	Billed quantity of domestic coal	MT	5874613.19	5774945.85	5209806.47	4926120.93	4556952.95			
18.1.2	Weighted average As Billed GCV of coal & its basis	kcal/kg								
18.1.3	Quantity of coal received at the plant	MT	417154.00	5683357.00	5151099.00	4873813.00	4498638.00			
18.1.4	Weighted average As Received GCV of coal & its basis	kcal/kg	NA	3733.00	4246.00	3846.00	3868.00			
18.1.5	Transportation distance of station from sources of supply	km	Coal received at KSTPS kota from various coal sources of NCL & SECL having distance between 666 KM to 1010 KM							
18.1.6	Mode of transport		Railway							
18.1.7	Weighted average compensation for transportation loss	% or MT	0.80	0.80	0.80	0.80	0.80			

18.1.8	Weighted average compensation for GCV loss etc. at plant en	kcal/kg						
18.2	Imported Coal:							
18.2.1	Quantity of Imported coal	MT	180097.00	744185.00	119674.00	0.00	0.00	
18.2.2	Weighted average GCV of imported coal & its basis	kcal/kg	6600	6299	6305	0.00	0.00	
18.2.3	Transportation distance of station from port of supply	km						
18.2.4	Weighted average compensation for transportation loss	% or MT	0.00	0.00	0.00	0.00	0.00	
18.3	Weighted average GCV of coal on As Fired basis	kcal/kg	3872	3690	3759	3784	3570	
18.4	Any other relevant information on main fuel							
19	Support fuel:							
19.1	Support fuel consumption	kl	3965.55	6626.59	6176.06	6057.58	3498.13	
19.2	Weighted average GCV of support fuel (As received)	kcal/l	9933.86	9944.70	9543.77	9550.17	9494.37	
19.3	Any other relevant information on support fuel							
20	Gross Energy Generation	MU	9451.15	8905.21	7769.54	7486.91	7213.04	
21	Total Operating Hours	Hrs.	7700.20	7483.47	6629.57	6569.43	6511.14	
22	Weighted average Unit/ Module Loading	MW	1227.39	1189.98	1171.95	1139.66	1107.80	
23	Net Energy Generation (Ex- Bus)	MU	8526.28	8010.25	6962.32	6628.79	6415.03	
24	Declared Energy Generation (Ex-Bus)	MU	9248.44	8671.03	8471.83	8745.88	8898.35	
25	Weighted average Declared Capacity	MW	1163.63	1090.98	1065.91	1100.39	1119.58	
26	Auxiliary Energy consumption including colony	MU	924.87	894.96	807.22	858.12	798.01	
27	Energy consumption of colony	MU	NIL	NIL	NIL	NIL	NIL	
28	Plant Outages							
28.1	Schedule outage	MU	632.75	806.42	842.88	651.27	180.81	
28.2	Forced outage	MU	246.83	417.00	300.89	192.03	614.72	
28.3	Total outage	MU	879.58	1223.42	1143.77	843.30	795.53	
28.4	Number of trippings	Nos.	66	89	77	71	55	
29	Number of Start- ups & Oil consumption							
29.1	Number of Cold starts- ups	Nos.	46.00	46	79.00	69.00	42.00	
29.2	Oil consumption for Cold starts- ups	kl	1900.90	2583	4028.26	3474.16	2320.90	
29.3	Number of Warm starts- ups	Nos.	7.00	27	15.00	35.00	11.00	
29.4	Oil consumption for Warm starts- ups	kl	209.58	830	452.17	767.38	302.03	
29.5	Number of Hot starts- ups	Nos.	34.00	37	29.00	14.00	27.00	
29.6	Oil consumption for Hot starts- ups	kl	600.00	726.98	597.44	532.67	441.62	
30	In case of CFBC power plants:		NA	NA	NA	NA	NA	
30.1	Limestone/ reagent consumption	Tonne	NA	NA	NA	NA	NA	
30.2	Purity of limestone/ reagent used	%	NA	NA	NA	NA	NA	
31	For units/ stations having FGD system:		NA	NA	NA	NA	NA	
31.1	Capacity having FGD installations	MW	NA	NA	NA	NA	NA	
31.2	Type of FGD system		NA	NA	NA	NA	NA	
31.3	Key components of FGD system		NA	NA	NA	NA	NA	
31.4	FGD % flue gas treatment	%	NA	NA	NA	NA	NA	
31.5	Gross Energy Generation of units/ stations having FGD system	MU	NA	NA	NA	NA	NA	
31.6	Energy consumption of FGD system	MU	NA	NA	NA	NA	NA	
31.7	For wet limestone based FGD system:		NA	NA	NA	NA	NA	
31.7.1	Limestone/ reagent consumption	Tonne	NA	NA	NA	NA	NA	
31.7.2	Purity of limestone/ reagent used	%	NA	NA	NA	NA	NA	
32	Any other relevant information/ data							

Note: Attach separate sheet, wherever required.

Performa for annual performance/operational data of the COAL/ LIGNITE based thermal generating stations for the 5 year period from 2013-14 to 2017-18								
A.	Particulars	Units	2013-14	2014-15	2015-16	2016-17	2017-18	Remarks
1	Name of Company		Rajasthan Rajya Vidyut Utpatan Nigam Limited					
2	Name of Station		Chhabra Thermal Power Project					
3	Installed Capacity and Configuration		4 X 250 MW					
4	Year/ date of installation (COD)		U#1: 11.06.2010, U#2: 15.10.2011, U#3: 19.12.2013 & U#4: 30.12.2014.					
5	Type of the plant and make of boiler & turbine		Coal Based & Boiler- BHEL-Trichi Natural Circulation, two pass Rediant Re-heat type & Turbine-BHEL Haridwar HMN type					
6	Rated Steam parameters at turbine inlet		148 kg/cm ² & 537+/-8 ° C					
7	Type of BFP & its configuration		Mutistage Horizontal Centrifugal Pump (Barrel Casing 6-Stage-FK6D30)					
8	Type of Condenser cooling system (Once-through / IDCT / NDCT/ Dry cooling)		IDCT					
9	Key details of dry cooling system, if applicable		NA					
10	Design coal analysis & GCV for boiler design		FC- 27%,VM-18%,Moisture -10%,HGI-50 ,GCV -3500 (as per BHEL)					
11	Design/ guaranteed boiler efficiency at 100% MCR		87.76%					
12	Gross heat rate of TG Cycle at design condition		1941.9					
13	Gross heat rate of TG Cycle at guarantee condition		1941.9					
14	Condenser pressure for design condition		-0.90					
15	Condenser pressure for guarantee condition		-0.90					
16	Guaranteed Auxiliary power consumption of the unit/ plant at 100% MCR condition and its break up		9%					
17	Any other relevant information/ data on plant design aspects							
18	Main Fuel:							
18.1	Domestic Coal:							
18.1.1	Billed quantity of domestic coal	MT	1984331.28	3130327.48	2958678.47	4459252.57	4407835.14	
18.1.2	Weighted average As Billed GCV of coal & its basis	kcal/kg	4542.00	4524.01	4561.60	4526.50	4665.94	
18.1.3	Quantity of coal received at the plant	MT	1966520.54	3106511.09	2946450.67	4448591.74	4341262.93	
18.1.4	Weighted average As Received GCV of coal & its basis	kcal/kg	NA	4310.71	4307.42	4090.29	4211.47	
18.1.5	Transportation distance of station from sources of supply	km	751 to 852	751 to 852	751 to 852	506 to 852	506 to 852	
18.1.6	Mode of transport		Rail Mode	Rail Mode	Rail Mode	Rail Mode	Rail Mode	
18.1.7	Weighted average compensation for transportation loss	MT	17810.74	23816.39	12227.80	10660.83	66572.21	
18.1.8	Weighted average compensation for GCV loss etc. at plant end	kcal/kg	0.00	Nil	Nil	Nil	Nil	
18.2	Imported Coal:							
18.2.1	Quantity of Imported coal	MT	66118.78	241964.72	39741.03	-	-	
18.2.2	Weighted average GCV of imported coal & its basis	kcal/kg	6600.00	6368.21	6357.40	-	-	
18.2.3	Transportation distance of station from port of supply	km	779.00	779 to 1056	1068.00	-	-	
18.2.4	Weighted average compensation for transportation loss	% or MT	0.00	0.00	0.00			
18.3	Weighted average GCV of coal on As Fired basis	kcal/kg	4022.55	4004.05	4083.84	4054.15	4085.83	
18.4	Any other relevant information on main fuel							
19	Support fuel:		LDO/HFO	LDO/HFO	LDO/HFO	LDO/HFO	LDO/HFO	
19.1	Support fuel consumption	kl	8027.76	9849.89	17196.10	8393.66	3641.26	

19.2	Weighted average GCV of support fuel (As received)	kcal/l	9904.830	9934.151	10725.56	10569.39	9874.89	
19.3	Any other relevant information on support fuel							
20	Gross Energy Generation	MU	3158.449	4583.559	4473.891	6825.036	6251.551	
21	Total Operating Hours of all four units	Hrs.	14072:13	21072:13	20813:48	30466:09	27100:34	
22	Weighted average Unit/ Module Loading (Station)	MW	505.01	706.94	859.83	896.09	922.74	
23	Net Energy Generation (Ex- Bus)	MU	2822.68	4088.54	3991.51	6133.78	5629.05	
24	Declared Energy Generation (Ex-Bus)	MU	3411.71	4494.55	4232.84	6505.83	6239.24	
25	Weighted average Declared Capacity	MW	427.98	563.82	529.54	816.13	782.68	
26	Auxiliary Energy consumption including colony	MU	335.77	495.02	482.38	691.25	622.50	
27	Energy consumption of colony	MU	NIL	NIL	NIL	NIL	NIL	
28	Plant Outages		-	-	-	-	-	
28.1	Schedule outage	MU	531.30	506.40	1157.73	485.99	763.16	
28.2	Forced outage	MU	761.21	1183.75	2382.47	548.75	1048.51	
	Grid Outage	MU	181.81	160.29	40.35	108.72	173.19	
28.3	Total outage	MU	1474.32	1850.44	3580.55	1143.46	1984.86	
28.4	Number of trippings	Nos.	113	153	139	140	79	
29	Number of Start- ups & Oil consumption		-	-	-	-	-	
29.1	Number of Cold starts- ups	Nos.	16	23	19	12	15	
29.2	Oil consumption for Cold starts- ups	kl	1318.18	3130.672	4263.34	988.63	1403.06	
29.3	Number of Warm starts- ups	Nos.	19	17	35	37	20	
29.4	Oil consumption for Warm starts- ups	kl	749.94	1499.8759	3565.32	1420.93	757.66	
29.5	Number of Hot starts- ups	Nos.	78	113	84	92	44	
29.6	Oil consumption for Hot starts- ups	kl	1701.16	1526.685	4756.11	2006.50	830.46	

Note: During the period 2013-14 to Dec.'16, CTPP received washed coal from SECL through washery operators and also from RVUN own captive coal block through M/s PKCL & imported coal in which there was not any provision of analysis of coal at loading end.

Annexure- 1									
A.	Proforma for annual performance/operational data of the COAL/ LIGNITE based thermal generating stations for the 5 year period from 2013-14 to 2017-18								
Sl. No.	Particulars	Units	2013-14	2014-15	2015-16	2016-17	2017-18	Remarks	
1	Name of Company		Rajasthan Rajya Vidyut Utpadan Nigam Limited						
2	Name of Station		Kalisindh Super Thermal Power Project						
3	Installed Capacity and Configuration		(2 X 600) MW						
4	Year/ date of installation		U#1 - 07.05.2014(Date Of COD) U#2 -25.07.2015(Date Of COD)						
5	Type of the plant and make of boiler & turbine		Coal Based Station Make of Boiler- Dong-Fang Electric Corporation (DEC), China Make of turbine- Dong-Fang Electric Corporation (DEC), China						
6	Rated Steam parameters at turbine inlet		166.7kg/sqcm(at100%TMCR),538deg cetgrade(at 100%TMCR).						
7	Type of BFP & its configuration		MDBFP(12000 kw), 11 kv, 2.39 Mpa, 2164.8 m.						
8	Type of Condenser cooling system (Once-through / IDCT / NDCT/ Dry cooling)		Natural Draft Cooling Tower (NDCT)						
9	Key details of dry cooling system, if applicable								
10	Design coal analysis & GCV for boiler design		3500kcal/kwh						
11	Design/ guaranteed boiler efficiency at 100% MCR		86.84%						
12	Gross heat rate of TG Cycle at design condition		1918.41kcal/kwh						
13	Gross heat rate of TG Cycle at guarantee condition		1927.848 kcal/kwh						
14	Condenser pressure for design condition		9.4kpa,(design)						
15	Condenser pressure for guarantee condition								
16	Guaranteed Auxiliary power consumption of the unit/ plant at 100% MCR condition and its break up		5.25%						
17	Any other relevant information/ data on plant design aspects								
18	Main Fuel:								
18.1	Domestic Coal:								
18.1.1	Billed quantity of domestic coal	MT		1057099.48	3398736.13	3466802.97	3692668.50		
18.1.2	Weighted average As Billed GCV of coal & its basis	kcal/kg		4583.49	4636.00	4650.08	4614.79		
18.1.3	Quantity of coal received at the plant	MT		1057099.48	3398736.13	3466802.97	3692668.50		
18.1.4	Weighted average As Received GCV of coal & its basis	kcal/kg		4351.38	4317.76	4250.81	4203.81		
18.1.5	Transportation distance of station from sources of supply	km		1005 / 98	1005.00	1005.00	1005.00		
18.1.6	Mode of transport			Rail / Road	Rail	Rail	Rail		
18.1.7	Weighted average compensation for transportation loss	% or MT							
18.1.8	Weighted average compensation for GCV loss etc. at plant end	kcal/kg							
18.2	Imported Coal:								
18.2.1	Quantity of Imported coal	MT		50800.15	-	-	-		
18.2.2	Weighted average GCV of imported coal & its basis	kcal/kg		6323.84	-	-	-		
18.2.3	Transportation distance of station from port of supply	km		803.00	-	-	-		
18.2.4	Weighted average compensation for transportation loss	% or MT		-	-	-	-		
18.3	Weighted average GCV of coal on As Fired basis	kcal/kg		4181.71	4207.40	4210.13	4206.80		
18.4	Any other relevant information on main fuel			-	-	-	-		
19	Support fuel:								
19.1	Support fuel consumption	kl		12799.74	13455.79	6622.30	5562.99		
19.2	Weighted average GCV of support fuel (As received)	kcal/l		9883.00	9883.00	10390.91	9776.77		
19.3	Any other relevant information on support fuel			-	-	-	-		

Performa for annual performance/operational data of the COAL/ LIGNITE based thermal generating stations for the 5 year period from 2013-14 to 2017-18								
A.	Particulars	Units	2013-14	2014-15	2015-16	2016-17	2017-18	Remarks
1	Name of Company		Giral Lignite Power Limited					
2	Name of Station		Giral Lignite Power Limited					
3	Installed Capacity and Configuration		2x125 MW					
4	Year/ date of installation (COD)		U#1: 18.10.2011, U#2: 12.03.2011,					
5	Type of the plant and make of boiler & turbine		Lignite Based & Boiler- BHEL- Circulating Fluidized Bed Combustor					
6	Rated Steam parameters at turbine inlet		131 kg/cm ² & 540° C					
7	Type of BFP & its configuration		Mutistage Horizontal Centrifugal Pump Electrical driven					
8	Type of Condenser cooling system (Once-through / IDCT / NDCT/ Dry cooling)		IDCT					
9	Key details of dry cooling system, if applicable		NA					
10	Design coal analysis & GCV for boiler design							
11	Design/ guaranteed boiler efficiency at 100% MCR		80.30%					
12	Gross heat rate of TG Cycle at design condition		1994.57					
13	Gross heat rate of TG Cycle at guarantee condition		1994.57					
14	Condenser pressure for design condition		-0.90					
15	Condenser pressure for guarantee condition		-0.90					
16	Guaranteed Auxiliary power consumption of the unit/ plant at 100% MCR condition and its break up		11.50%					
17	Any other relevant information/ data on plant design aspects							
18	Main Fuel:		Lignite	Lignite	Lignite	Lignite	Lignite	
18.1	Domestic Coal:							
18.1.1	Billed quantity of domestic coal	MT	511968.68	446006.47	282470.55	NIL	NIL	
18.1.2	Weighted average As Billed GCV of coal & its basis	kcal/kg	2900.00	3038.00	3011.80	NIL	NIL	
18.1.3	Quantity of coal received at the plant	MT	511968.68	446006.47	282470.55	NIL	NIL	
18.1.4	Weighted average As Received GCV of coal & its basis	kcal/kg	2900.00	3038.00	3011.80	NIL	NIL	
18.1.5	Transportation distance of station from sources of supply	km	12KM	12KM	12KM	12KM	12KM	
18.1.6	Mode of transport		By Road	By Road	By Road	By Road	By Road	
18.1.7	Weighted average compensation for transportation loss	MT	0.00	0.00	0.00	0.00	0.00	
18.1.8	Weighted average compensation for GCV loss etc. at plant end	kcal/kg	NIL	NIL	NIL	NIL	NIL	
18.2	Imported Coal:		NIL	NIL	NIL	NIL	NIL	
18.2.1	Quantity of Imported coal	MT	0.00	0.00	0.00	0.00	0.00	
18.2.2	Weighted average GCV of imported coal & its basis	kcal/kg	0.00	0.00	0.00	0.00	0.00	
18.2.3	Transportation distance of station from port of supply	km	0.00	0.00	0.00	0.00	0.00	
18.2.4	Weighted average compensation for transportation loss	% or MT	0.00	0.00	0.00	0.00	0.00	
18.3	Weighted average GCV of coal on As Fired basis	kcal/kg	2906.24	2948.99	2988.09	0.00	0.00	
18.4	Any other relevant information on main fuel							
19	Support fuel:		LDO/HFO	LDO/HFO	LDO/HFO	LDO/HFO	LDO/HFO	
19.1	Support fuel consumption	kl	790.00	476.00	305.00	0.00	0.00	

19.2	Weighted average GCV of support fuel (As received)	kcal/l	10600.000	10600.000	10600.000	10600.000	10600.000	
19.3	Any other relevant information on support fuel		NIL	NIL	NIL	NIL	NIL	
20	Gross Energy Generation	MU	378.189	357.056	254.031	0.000	0.000	
21	Total Operating Hours of all Two units	Hrs.	6091:44	5077:04	3590:17	0:00	0:00	
22	Weighted average Unit/ Module Loading (Station)	MW	62.08	70.32	70.75	0.00	0.00	
23	Net Energy Generation (Ex- Bus)	MU	287.42	279.28	198.15	-5.74	-2.79	
24	Declared Energy Generation (Ex-Bus)	MU	NA	NA	NA	NA	NA	
25	Weighted average Declared Capacity	MW	250.00	250.00	250.00	250.00	250.00	
26	Auxiliary Energy consumption	MU	90.77	77.77	55.88	5.74	2.79	
27	Energy consumption of colony	MU	NIL	NIL	NIL	NIL	NIL	
28	Plant Outages							
28.1	Schedule outage	MU	-	-	-	-	-	
28.2	Forced outage	MU	1811.81	1832.94	1935.97	2190.00	2190.00	
	Grid Outage	MU	-	-	-	-	-	
28.3	Total outage	MU	1811.81	1832.94	1935.97	2190.00	2190.00	
28.4	Number of trippings	Nos.	93	53	29	Unit#01 & 02 are under shutdown from 11.07.2014 & 27.01.2016.		
29	Number of Start- ups & Oil consumption		-	-	-	-	-	
29.1	Number of Cold starts- ups	Nos.	35.00	17.00	10.00	0.00	0.00	
29.2	Oil consumption for Cold starts- ups	kl	595.00	364.00	195.00	0.00	0.00	
29.3	Number of Warm starts- ups	Nos.	28.00	16.00	10.00	0.00	0.00	
29.4	Oil consumption for Warm starts- ups	kl	190.00	108.00	105.00	0.00	0.00	
29.5	Number of Hot starts- ups	Nos.	30.00	20.00	9.00	0.00	0.00	
29.6	Oil consumption for Hot starts- ups	kl	5.00	4.00	5.00	0.00	0.00	

Proforma for annual performance/ operational data of the GAS/ LIQUID FUEL based thermal generating stations for the 5 year period from 2013-14 to 2017-18								
A.	Particulars	Units	2013-14	2014-15	2015-16	2016-17	2017-18	Remarks
1	Name of Company		RRVUNL					
2	Name of Station		Ramgarh Gas Thermal Power Station					
3	Installed Capacity and Configuration		GT#1	GT#2	STG#1	GT#3	STG#2	
4	Year/ date of COD		35.5 MW	37.5 MW	37.5 MW	110 MW	50 MW	
5	Type of the plant and make		12.01.96	7.08.2002	25.4.2003	06.12.2013	07.06.2014	
6	Rated parameters of the GT/ CCGT plant		Gas Power Plant & BHEL					
			Rated module heat Rate 1768.82 (Stage I & II) & 1791.67 (Stage-III)					
7	Design site ambient conditions		Ambient Temp	Relative humidity	Elevation Equivalent pressure	Fuel	Frequency	
			27 Deg	60%	160 M / 0.9948 Bar	Natural gas	50 Hz	
8	Design rating of GT/ CCGT Module (ISO & site rating)							
9	Type of steam turbine condenser cooling system (Once-through/ IDCT / NDCT/ Dry cooling)		IDCT					
10	Key details of dry cooling system, if applicable		N / A					
11	GT/ CCGT module heat rate at 100% MCR		2850.337	2600.1438	2393.1153	2352.5246	2257.906	Actual Station heat rate
12	Guaranteed/ design auxiliary power consumption of GT/ CCGT module at 100% MCR condition and its break up		2.40%					
13	Any other relevant information/ data on plant design aspects		N / A					
14	Fuel:							
14.1	Type of Main Fuel		Natural gas					
14.2	Consumption of main fuel/ gas	SCM	332168358	479176852	511454196	525432893	492668050	
14.3	Weighted average GCV of main fuel/ gas & its basis	kcal/SCM	5777.75	6877.868	7124.034	6387.924094	6641.280371	
14.4	Type of Alternate Fuel		N / A					
14.5	Consumption of alternate fuel	Tonne or kl						
14.6	Weighted average GCV of alternate fuel & its basis	kcal/kg (or litre)						
14.7	Any other relevant information on main fuel/ alternate fuel							
15	Gross Energy Generation:							
15.1	On gas	MU	673.3195	1267.8308	1522.5738	1426.75138	1449.13484	
15.2	On liquid fuel	MU						
15.3	Total energy generation	MU	673.32	1267.8308	1522.5738	1426.75138	1449.1348	
16	Total Operating Hours	Hrs		32337:41:00	34950:47	35185:26:00	31370:31:00	
17	Weighted average Unit/ Module Loading	MW						
18	Net Energy Generation (Ex- Bus)	MU	651.1111	1213.5754	1459.3995	1367.9242	1391.015	
19	Declared Energy Generation (Ex-Bus)	MU	705.9211	1387.3154	1487.3695	1368.5442	1416.565	
20	Weighted average Declared Capacity	MW	82.57	162.26	173.97	160.07	165.68	
21	Auxiliary Energy consumption including colony	MU	22.17	54.26	63.17	58.83	58.12	
22	Energy consumption of colony	MU	NIL	NIL	NIL	NIL	NIL	
23	Plant Outages							
23.1	Schedule outage	MU			144.83	0.00	108.95	
23.2	Forced outage	MU			338.01	356.63	451.63	
23.3	Total outage	MU			482.84	356.63	560.58	
24	Number of trippings	Nos.	201.00	359	248	209	229	
25	Number of Start-ups	Nos.	201	359	248	209	229	
26	Any other relevant information/ data							

Note: Attach separate sheet, wherever required.

A Proforma for annual performance/ operational data of the GAS/ LIQUID FUEL based thermal generating stations for the 5 year period from 2013-14 to 2017-18								
Sl. No.	Particulars	Units	2013-14	2014-15	2015-16	2016-17	2017-18	Remarks
1	Name of Company		RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED					
2	Name of Station		DHOLPUR COMBINED CYCLE POWER PROJECT					
3	Installed Capacity and Configuration		3 X 100 MW (GT#1 110 MW+ GT#2 110 MW+ STG)110 MW					
4	Year/ date of installation		01.03.2008 (COD)					
5	Type of the plant and make		CCGT, BHEL					
6	Rated parameters of the GT/ CCGT plant		Rated CCGT Module Heat Rate 1732.5 Kcal/ Kwh					
7	Design site ambient conditions		34 deg. C @ 60%RH					
8	Design rating of GT/ CCGT Module (ISO & site rating)		330 MW					
9	Type of steam turbine condenser cooling system (Once-through/ IDCT / NDCT/ Dry cooling)		IDCT					
10	Key details of dry cooling system, if applicable		NA					
11	GT/ CCGT module heat rate at 100% MCR		1732.65					AS Per PG Test Schedule
12	Guaranteed/ design auxiliary power consumption of GT/ CCGT module at 100% MCR condition and its break up		2.90%					As per RERC
13	Any other relevant information/ data on plant design aspects							
14	Fuel:							
14	Type of Main Fuel		Natural Gas					
14	Consumption of main fuel/ gas	SCM	241571614.00	215961601.21	87059429.00	31683900.89	61243088.57	
14	Weighted average GCV of main fuel/ gas & its basis	kcal/SCM	9195.95	9136.59	9160.07	9197.63	9156.88	
14	Type of Alternate Fuel		NA					
15	Consumption of alternate fuel	Tonne or kl	NA					
15	Weighted average GCV of alternate fuel & its basis	kcal/kg (or litre)	NA					
15	Any other relevant information on main fuel/ alternate fuel		NA					
15	Gross Energy Generation:							
15.1	On gas	MU	976.58	878.62181	330.0254	124.85299	247.7159	
15.2	On liquid fuel	MU	NIL					
15.3	Total energy generation	MU	976.5800	878.6218	330.0254	124.8530	247.7159	
16	Total Operating Hours	Hrs	8334.47	7207.76	3388.17	1179.23	2216.53	

