

**BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION  
GANDHINAGAR**



**CASE NO. \_\_\_\_\_**

**Filing of Petition for True Up of FY 2019-20**

**Under**

**GERC MYT Regulations 2016 and  
Section 62 of the Electricity Act, 2003.**

**Filed by:-**

**Gujarat State Electricity Corporation Limited**

**Regd. Office: Vidyut Bhavan, Race Course Circle, Vadodara – 390 007**



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Filing No:

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<b>IN THE MATTER OF</b>	Filing of Petition for True Up of FY 2019-20 under GERC MYT Regulations, 2016 and Section 62 of the Electricity Act, 2003.
<b>AND</b>	
<b>IN THE MATTER OF</b>	Gujarat State Electricity Corporation Limited, Vidyut Bhavan, Race Course, Vadodara 390007 Phone No. :0265 6612003; Fax: 0265 2344537 E-mail: <a href="mailto:gmf.gsecl@gebmail.com">gmf.gsecl@gebmail.com</a> <p style="text-align: right;"><b>PETITIONER</b></p>
<b>AND</b>	
<b>IN THE MATTER OF</b>	Gujarat Urja Vikas Nigam Limited, Sardar Patel Vidyut Bhavan, Race Course, Vadodara 390007 Phone No. 0265 6613221; Fax: 0265 2337918; E-mail: <a href="mailto:coacom@gebmail.com">coacom@gebmail.com</a> <p style="text-align: right;"><b>RESPONDENT</b></p>

**THE PETITIONER ABOVE NAMED RESPECTFULLY SUBMITS**

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**ABBREVIATIONS**

1.	AOH	Annual Over Hauling
2.	ARR	Aggregate Revenue Requirement
3.	CEA	Central Electricity Authority
4.	FY	Financial Year
5.	GEB	Gujarat Electricity Board
6.	GERC	Gujarat Electricity Regulatory Commission
7.	GoG	Government of Gujarat
8.	GSECL	Gujarat State Electricity Corporation Limited
9.	GUVNL	Gujarat Urja Vikas Nigam Limited
10.	KV	Kilo Volt
11.	KWh	Kilo Watt Hour
12.	MW	Mega Watt
13.	MYT	Multi Year Tariff
14.	O&M	Operation & Maintenance
15.	PAF	Plant Availability Factor
16.	PLF	Plant Load Factor
17.	R&M	Renovation & Modernization
18.	SHR	Station Heat Rate
19.	Second Control Period	FY 2011-12, FY 2012-13, FY 2013-14, FY 2014-15, FY 2015-16
20.	Third Control Period	FY 2016-17, FY 2017-18, FY 2018-19, FY 2019-20, FY 2020-21



## **SECTION 1. INTRODUCTION**

### **1.1. PREAMBLE**

1.1.1. This section presents the background and reasons for filing of this Petition.

### **1.2. INTRODUCTION**

1.2.1. The Government of Gujarat (hereinafter referred to as "GoG") notified the Gujarat Electricity Industry (Reorganization and Regulation) Act 2003 (hereinafter called as "Act") in May 2003 for the reorganization of the entire power sector in the State of Gujarat.

1.2.2. Pursuant to the above, Gujarat Electricity Board (the Board) has been unbundled into functional entities with effect from 1<sup>st</sup> April, 2005 with assets of the GEB disaggregated into seven companies, and all power stations of erstwhile GEB transferred to GSECL.

1.2.3. Gujarat State Electricity Corporation Limited (GSECL) was registered in 1993 under the Companies Act 1956 for the generation of Electricity.

1.2.4. The Gujarat Electricity Regulatory Commission (hereinafter referred to as "GERC" or "the Commission"), an independent statutory body constituted under the provisions of the Electricity Regulatory Commissions (ERC) Act, 1998 and is currently under purview of the Electricity Act, 2003. GERC is vested with the authority of regulating the power sector in the State inter alia including determination of Tariff for electricity consumers.

1.2.5. The Hon'ble Commission notified the Gujarat Electricity Regulatory Commission (Multi-Year Tariff) Regulations, 2016 ("MYT Regulations, 2016") on 29<sup>th</sup> March 2016 and shall be applicable for determination of tariff in all cases covered under the regulations from 1<sup>st</sup> April, 2016 onwards till 31<sup>st</sup> March, 2020.

1.2.6. The Hon'ble Commission issued Order in Case No. 1619 of 2016 dated 31<sup>st</sup> March, 2017 for Truing up of FY 2015-16, approval of final ARR for FY 2016-17 and approval of Multi-Year ARR for FY 2016-17 to FY 2020-21 and determination of Tariff for FY 2017-18. Subsequently, the Hon'ble Commission issued Order in Case No. 1693 of 2017 dated 31<sup>st</sup> March, 2018 for Truing up of FY 2016-17 and determination of Tariff for FY 2018-19. The Hon'ble Commission also issued Order in Case No.1756 of 2018 dated 24<sup>th</sup> April, 2019 for Truing up of FY 2017-18 and determination of Tariff for FY 2019-20. The Hon'ble Commission has also issued Order in Case No. 1836 of 2019 dated 26<sup>th</sup> March, 2020 for Truing up of FY 2018-19 and determination of Tariff for FY 2020-21.

### **1.3. Filing of True-Up Petition for FY 2019-20**

1.3.1. The Hon'ble Commission issued Order in Case No. 1619 of 2016 dated 31<sup>st</sup> March, 2017 for Truing up of FY 2015-16, approval of final ARR for FY 2016-17 and approval of Multi-Year ARR for FY 2016-17 to FY 2020-21 and determination of Tariff for FY 2017-18. Subsequently, the Hon'ble Commission also issued Order in Case No.1756 of 2018 dated 24<sup>th</sup> April, 2019 for Truing up of FY 2017-18 and determination of Tariff for FY 2019-20.



- 1.3.2. As the FY 2019-20 is over and annual accounts of GSECL are also audited, GSECL is filing its Petition for True-up of FY 2019-20 in accordance with MYT Regulations, 2016, to the Hon'ble Commission for its approval.





## **SECTION 2. EXECUTIVE SUMMARY**

### **2.1. PREAMBLE**

2.1.1. This section highlights the summary of Petition for True Up for FY 2019-20.

### **2.2. TRUE UP OF FY 2019-20**

2.2.1. GSECL has worked out its Aggregate Revenue Requirement (ARR) for FY 2019-20 based on the audited accounts and the principles adopted by the Hon'ble Commission in its previous Orders.

2.2.2. Tables below summarize the results of True up of FY 2019-20 of GSECL Stations. For the purpose of True Up, GSECL compared the actual cost for FY 2019-20 with the cost approved by the Hon'ble Commission in "*Tariff Order dated 24<sup>th</sup> April, 2019*" for Truing up of FY 2017-18 & *Tariff determination for FY 2019-20*.

2.2.3. The actual fixed cost of GSECL based on audited accounts is as shown in below table.

TABLE 1 : FIXED COST FOR GSECL FOR FY 2019-20 (RS. CRORE)

Sr. No.	Power Station	Depreciation	Interest & Finance charges	Return on Equity	O&M expenses	Water Charges	SLDC charges	Tax	Interest on working capital	Total fixed cost	Non- tariff income	Net fixed charges
		(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)
1	Ukai (3-5)	42.80	-	22.18	213.19	-	0.38	3.46	35.37	317.37	33.46	283.91
2	Gandhinagar (3-4)	33.04	-	23.19	109.37	42.10	0.26	2.38	27.48	237.82	10.18	227.64
3	Gandhinagar 5*	2.16	-	28.67	54.69	21.05	0.13	1.19	13.64	121.54	9.96	111.58
4	Wanakbori 1-6 TPS	89.63	24.15	88.70	218.05	38.46	0.78	7.14	78.25	545.16	43.02	502.14
5	Wanakbori 7 TPS*	2.15	-	26.16	14.64	10.17	0.13	1.19	12.70	67.14	14.44	52.70
6	Sikka Extn. (3-4)*	179.58	132.82	135.93	130.73	5.11	0.31	2.83	32.43	619.75	5.17	614.58
7	KLTPS 1-3	35.87	1.34	52.91	109.38	0.25	0.13	1.22	9.60	210.71	7.12	203.59
8	KLTPS 4	36.32	10.89	29.63	19.81	0.15	0.05	0.42	3.60	100.88	4.51	96.37
9	BLTPS*	238.62	152.02	151.97	75.58	6.32	0.32	-	28.40	653.22	14.84	638.38
10	Dhuvaran CCPP 1*	9.73	-	10.45	52.24	0.19	0.07	0.60	5.18	78.47	0.73	77.74
11	Dhuvaran CCPP 2	12.92	3.88	14.37	51.98	0.20	0.07	0.64	5.79	89.84	0.73	89.11
12	Dhuvaran CCPP 3*	78.77	65.56	67.01	7.01	0.66	0.23	2.13	19.58	240.98	0.95	240.03
13	Utran Extension*	68.22	32.43	57.49	44.68	2.40	0.23	2.12	19.32	226.89	0.47	226.42
14	Ukai 6*	155.11	96.41	125.18	38.05	-	0.31	2.83	28.68	446.57	15.43	431.14
15	Wanakbori 8 TPS*	102.58	113.32	83.77	12.36	5.95	0.03	-	22.18	340.19	0.40	339.79
16	Ukai Hydro	2.31	2.07	10.62	13.67	-	0.19	1.73	0.61	31.20	0.15	31.05
17	Kadana Hydro	5.44	-	28.82	21.49	-	0.15	1.37	1.17	58.44	0.39	58.04
	<b>Total</b>	<b>1,095.25</b>	<b>634.89</b>	<b>957.06</b>	<b>1,186.92</b>	<b>133.00</b>	<b>3.77</b>	<b>31.26</b>	<b>344.00</b>	<b>4,386.16</b>	<b>161.95</b>	<b>4,224.21</b>

\* PPA governed stations

2.2.4. Based on actual operating & fuel related parameters during FY 2019-20, table below indicates actual audited energy charges for GSECL's stations for FY 2019-20 along with the approved ones:

**TABLE 2 : ENERGY CHARGES FOR GSECL'S PLANTS FOR FY 2019-20 (IN Rs/KWH)**

Sr.No.	Power Station	Approved	Actual
1	Ukai (3-5)	3.73	3.72
2	Gandhinagar (3-4)	4.09	4.20
3	Gandhinagar 5*	3.94	4.05
4	Wanakbori 1-6 TPS	3.93	3.91
5	Wanakbori 7 TPS*	3.84	3.77
6	Sikka Extn. (3-4)*	3.58	3.73
7	KLTPS 1-3	2.77	3.20
8	KLTPS 4	2.56	2.98
9	BLTPS*	2.88	4.51
10	Dhuvaran CCPP 1*	3.03	3.44
11	Dhuvaran CCPP 2	3.22	3.82
12	Dhuvaran CCPP 3*	3.57	3.83
13	Utran Extension*	3.64	3.65
14	Ukai 6*	3.26	3.19
15	Wanakbori 8 TPS*	3.36	3.47

\* PPA governed stations

2.2.5. The detailed comparison of various cost components with the values approved by the Hon'ble Commission vide "Tariff Order dated 24<sup>th</sup> April, 2019" for True up has been worked out in Section 4 of the Petition. Table below summarizes plant wise gains/ (losses) incurred by GSECL on account of controllable/ uncontrollable factors, which need to be shared with the Consumers as per the mechanism prescribed by the Hon'ble Commission in the MYT Regulations, 2016.

**TABLE 3 : GAINS / (LOSSES) ON ACCOUNT OF CONTROLLABLE FACTORS FOR FY 19-20 (RS. CRORE)**

Sr.No.	Power Station	O&M expense	Fuel cost	Total gains/(losses) due to controllable factors	Total gains/(losses) to be passed through (1/3rd of gains/(losses))
1	Ukai (3-5)	(39.06)	2.46	(36.60)	(12.20)
2	Gandhinagar (3-4)	(12.52)	(7.57)	(20.09)	(6.70)
3	Gandhinagar 5*	-	-	-	-
4	Wanakbori 1-6 TPS	35.36	7.06	42.42	14.14
5	Wanakbori 7 TPS*	-	-	-	-
6	Sikka Extn. (3-4)*	-	-	-	-
7	KLTPS 1-3	12.00	(20.26)	(8.26)	(2.75)
8	KLTPS 4	0.98	(10.56)	(9.58)	(3.19)
9	BLTPS*	-	-	-	-
10	Dhuvaran CCPP 1*	-	-	-	-
11	Dhuvaran CCPP 2	(16.53)	(5.05)	(21.57)	(7.19)
12	Dhuvaran CCPP 3*	-	-	-	-
13	Utran Extension*	-	-	-	-
14	Ukai 6*	-	-	-	-
15	Wanakbori 8 TPS*	-	-	-	-
16	Ukai Hydro	7.70	-	7.70	2.57
17	Kadana Hydro	4.24	-	4.24	1.41
<b>Total</b>		<b>(7.83)</b>	<b>(33.92)</b>	<b>(41.75)</b>	<b>(13.92)</b>

\* PPA governed stations

TABLE 4 : GAINS/(LOSSES) ON ACCOUNT OF UNCONTROLLABLE FACTORS FOR FY 19-20 (RS. CRORE)

Sr. No.	Power Station	Depreciation	Interest & Finance charges	Return on Equity	Water Charges	SLDC charges	Tax	Interest on working capital	Non-tariff income	Total gain/(losses) to be passed through
1	Ukai (1-5)	31.43	35.79	5.29	0.10	0.22	0.01	(5.44)	17.59	85.00
2	Gandhinagar (1-4)	23.11	2.07	(5.61)	(35.09)	0.24	0.01	(5.01)	(2.32)	(22.60)
3	Gandhinagar 5*	-	-	-	-	-	-	-	-	-
4	Wanakbori 1-6 TPS	33.09	(0.27)	3.08	(2.70)	0.03	0.03	(11.01)	(3.27)	18.98
5	Wanakbori 7 TPS*	-	-	-	-	-	-	-	-	-
6	Sikka Extn. (3-4)*	-	-	-	-	-	-	-	-	-
7	KLTPS 1-3	30.63	(1.33)	(3.88)	0.18	0.04	0.00	(0.80)	2.28	27.11
8	KLTPS 4	(0.04)	1.50	(0.23)	(0.02)	(0.03)	0.01	(0.25)	2.86	3.79
9	BLTPS*	-	-	-	-	-	-	-	-	-
10	Dhuvaran CCPP 1*	-	-	-	-	-	-	-	-	-
11	Dhuvaran CCPP 2	10.22	4.02	2.55	0.56	(0.02)	0.00	0.11	(1.08)	16.37
12	Dhuvaran CCPP 3*	-	-	-	-	-	-	-	-	-
13	Utran Extension*	-	-	-	-	-	-	-	-	-
14	Ukai-6	-	-	-	-	-	-	-	-	-
15	Wanakbori-8	-	-	-	-	-	-	-	-	-
16	Ukai Hydro	(2.31)	0.46	(0.20)	-	(0.02)	0.00	0.13	(3.36)	(5.30)
17	Kadana Hydro	10.37	-	(0.06)	-	(0.00)	0.01	0.15	(2.67)	7.81
	<b>Total</b>	<b>136.52</b>	<b>42.24</b>	<b>0.94</b>	<b>(36.96)</b>	<b>0.46</b>	<b>0.07</b>	<b>(22.13)</b>	<b>10.03</b>	<b>131.16</b>

\* PPA governed stations

2.2.6. Based on the above estimated gains / (losses) on account of controllable and uncontrollable factors, the Gap/ Surplus of GSECL for FY 2019-20 has been worked out as given below:

**TABLE 5 : NET ENTITLEMENT FOR FY 2019-20 (RS. CRORE)**

Sr.No.	Power Station	Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors	Total gains/(losses) to be passed through
a	b	c	d	e= c/3 + d
1	Ukai (3-5)	(36.60)	85.00	72.80
2	Gandhinagar (3-4)	(20.09)	(22.60)	(29.30)
3	Gandhinagar 5*	-	-	-
4	Wanakbori 1-6 TPS	42.42	18.98	33.12
5	Wanakbori 7 TPS*	-	-	-
6	Sikka Extn. (3-4)*	-	-	-
7	KLTPS 1-3	(8.26)	27.11	24.36
8	KLTPS 4	(9.58)	3.79	0.60
9	BLTPS*	-	-	-
10	Dhuvaran CCPP 1*	-	-	-
11	Dhuvaran CCPP 2	(21.57)	16.37	9.18
12	Dhuvaran CCPP 3*	-	-	-
13	Utran Extension*	-	-	-
14	Ukai 6*	-	-	-
15	Wanakbori 8 TPS*	-	-	-
16	Ukai Hydro	7.70	(5.30)	(2.73)
17	Kadana Hydro	4.24	7.81	9.22
<b>Total</b>		<b>(41.75)</b>	<b>131.16</b>	<b>117.24</b>

\* PPA governed stations

### 2.3. UNABSORBED DEPRECIATION FOR UKAI UNITS 1 & 2

2.3.1. GSECL requests the Hon'ble Commission to approve unabsorbed depreciation of Rs. 102.18 Crore for Ukai units 1 and 2 and allow recovery of the same in FY 2021-22.

## SECTION 3. GSECL'S PERFORMANCE & FUEL RELATED PARAMETERS

### 3.1. PREAMBLE

3.1.1. This section outlines the performance & fuel related parameters for GSECL Power plants. For the above purpose, GSECL is indicating actual performance and fuel related parameters achieved in FY 2019-20 vis-à-vis parameters approved in "Tariff Order dated 24<sup>th</sup> April, 2019". In this section, GSECL has also provided reasons for deviation in the parameters from the approved figures, if any.

3.1.2. The parameters for the PPA governed stations are only indicative, and it may be noted that the parameters for these stations will be governed by terms & conditions of the Power Purchase Agreements.

3.1.3. The following table gives the details of the generating stations along with their capacity and the date of Commissioning:

**TABLE 6 : CAPACITY, COD & AGE OF GSECL'S GENERATING STATIONS**

Name of Station	Unit No.	Capacity of the Unit (MW)	Date of Commissioning
Ukai	3	200	21/1/1979
	4	200	11/9/1979
	5	210	30/1/1985
	<b>Sub Total</b>	<b>610</b>	
Gandhinagar	3	210	20/3/1990
	4	210	20/7/1991
	5	210	17/3/1998
	<b>Sub Total</b>	<b>630</b>	
Wanakbori	1	210	23/3/1982
	2	210	15/1/1983
	3	210	15/3/1984
	4	210	9/3/1986
	5	210	23/9/1986
	6	210	18/11/1987
	7	210	31/12/1998
	<b>Sub Total</b>	<b>1470</b>	
KLTPS	1	70	29/3/1990
	2	70	25/3/1991
	3	75	31/3/1997
	4	75	20/12/2009
	<b>Sub Total</b>	<b>290</b>	
BLTPS	1	250	16/05/2016
	2	250	27/03/2017
	<b>Sub Total</b>	<b>500</b>	
Dhuvaran	7 - Gas	106.617	28/1/2004
	8 - Gas	112.45	1/11/2007
	<b>Sub Total</b>	<b>219.067</b>	
Utran Extension	<b>GT -1</b>	<b>375</b>	8/11/2009
Sikka TPS 3&4	3	250	14/9/2015
	4	250	28/12/2015
	<b>Sub Total</b>	<b>500</b>	
Ukai TPS	6	<b>500</b>	8/6/2013



Name of Station	Unit No.	Capacity of the Unit (MW)	Date of Commissioning
Dhuvaran (Gas)	3	376	01/02/2016
Wanakbori	8	800	13/10/2019
<b>SUB TOTAL GSECL (Coal + Lignite)</b>		<b>5300</b>	
<b>SUB TOTAL GSECL (Gas)</b>		<b>970</b>	
<b>TOTAL GSECL (Thermal)</b>		<b>6270</b>	
Ukai Hydro	1	75	8/7/1974
	2	75	13/12/1974
	3	75	22/4/1975
	4	75	4/3/1976
	<b>Sub Total</b>	<b>300</b>	
Ukai LBC	1	2.5	8/12/1987
	2	2.5	19/2/1988
	<b>Sub Total</b>	<b>5</b>	
Kadana Hydro	1	60	31/3/1990
	2	60	2/9/1990
	3	60	3/1/1998
	4	60	27/5/1998
	<b>Sub Total</b>	<b>240</b>	
Panam	1	1	24/03/1994
	2	2	31/03/1994
<b>Sub Total Hydro</b>		<b>547</b>	
Wind Mill	Layza	10	04/01/2009
Solar	Plant at GTPS (Ash Dyke)	1	27/03/2012
	Plant at Sanand branch Canal	1	29/03/2012
	Charanka	10	23/03/2015
	KLTPS	1	02/05/2016
	Sikka TPS	1	02/05/2016
	Dhuvaran	75	05/02/2109
<b>Sub Total RE</b>		<b>99</b>	
<b>Total</b>		<b>6916</b>	

**3.2. OPERATING PARAMETERS FOR GSECL**

3.2.1. Power generating stations are broadly governed by the following operational parameters:

1. Station heat rate
2. Plant Availability factor
3. Plant load factor
4. Specific fuel oil consumption
5. Auxiliary consumption

3.2.2. The above operating parameters are dependent on various technical factors like design, level of operation (low/partial load operation), ageing etc. The justification for the operational parameters has been discussed in detail in the subsequent sections.

- 3.2.3. **Low PLF:** The performance of generating stations depends on the generation level on the units as well as plant load factor. In Gujarat, the Intra Sate ABT / Merit order Despatch System is followed. Gujarat, being a power surplus State, the despatch instructions for a generating station depend upon the merit order (Low cost generation are given first priority) as per the Indian Electricity Grid Code. Accordingly, the GSECL stations are advised to backed down or put under Reserve Shut Down depending upon system conditions. This results in lower plant load factor (PLF) of GSECL stations which is beyond the control of GSECL.
- 3.2.4. **Effects of low load operation/back down:** Partial load / low load operation results in deterioration in overall performance of the units and lower efficiency of power stations Following performance issues can be attributed to the low load operation of generating stations;
- Increase in station heat rate (SHR)
  - Increase in fuel consumption
  - Increase in specific fuel oil consumption (Increase no. of hot/cold startups increases the fuel oil consumption)
  - Increase in auxiliary consumption
- 3.2.5. These factors are beyond the control of GSECL and request the Hon'ble Commission to approve the actual performance related factors of GSECL Stations. In spite of these uncontrollable issues, most of the GSECL power stations have performed up to the benchmark levels. (Individual details of plants and their reasons for under-performance are explained in subsequent sections.
- 3.2.6. GSECL submits that all the above parameters are beyond the control of GSECL.
- 3.2.7. GSECL also submits that minor R&M projects are taken up to improve the automatic control systems and instrumentation of the old plants for replacing obsolete system to sustain performance.
- 3.3. TARGET AVAILABILITY FOR RECOVERY OF FULL CAPACITY (FIXED) CHARGES**
- 3.3.1. The plant availability factor achieved by the GSECL station during FY 2019-20 is shown as per the table below.
- 3.3.2. For true-up, the factors impacting availability of GSECL stations & reasons for deviation from norms are as below:
- **Ukai 6:** AOH extended due to work in APH (12Days @ 3.28%) - the time taken for replacement of APH baskets was prolonged as the damage to APH baskets was found substantially higher than anticipated.
  - **Wanakbori 8:** Unforeseen forced outage due to LP rotor damage (balance weight detached) (104 Days @ 60.82%) & Boiler tube leakage (BTL) in spiral Water wall (10 Days @ 5.85%)
  - **KLTPS 1-3:** Inadequate and Poor lignite quality & frequent forced outages/partial operation of units due to non-availability of milling system (heavy damages to mill internals due to pyrite laden lignite) 38.66%



- **KLTPS 4:** Partial Operation due to problems of FBHE Evaporator and Superheater & Forced Outages - 24.73%
- **BLTPS 1-2:** Partial Operation due to Unit Constrains & fuel feeding problems (16%), Frequent forced outages due to boiler tube leakages (12.83%), APH problem & fuel feeding problems (56.93%)
- **Dhuvran 1:** Unforeseen forced outage due to high vibrations of GT bearings (outage for 311 days (124 days in 2019-20) taken for replacement of both bearings of GT bearings (35.75 %)
- **Dhuvran 2:** Unforeseen forced outage for 210 days as GT fuel nozzle choked up (63.54 %) due to condensate from gas pipeline carried upto GT nozzles in Gas turbine
- **Dhuvran 3:** Unforeseen forced outage due to massive Fire in GT exhaust compartment (29.02 %)

TABLE 7 : PLANT AVAILABILITY FACTOR (In %)

Sl.No.	Power Station	FY 2019-20	
		Approved	Actuals
1	Ukai (3-5)	80.00%	85.58%
2	Gandhinagar (3-4)	84.00%	94.41%
3	Gandhinagar 5*	85.00%	92.01%
4	Wanakbori 1-6 TPS	85.00%	93.94%
5	Wanakbori 7 TPS*	85.00%	98.00%
6	Sikka Extn. (3-4)*	85.00%	93.42%
7	KLTPS 1-3	75.00%	35.22%
8	KLTPS 4	80.00%	45.16%
9	BLTPS*	80.00%	12.80%
10	Dhuvaran CCPP 1*	85.00%	58.48%
11	Dhuvaran CCPP 2	85.00%	24.97%
12	Dhuvaran CCPP 3*	85.00%	68.06%
13	Utran Extension*	85.00%	91.13%
14	Ukai 6*	85.00%	83.34%
15	Wanakbori 8 TPS*	85.00%	28.71%
16	Ukai Hydro	80.00%	87.12%
17	Kadana Hydro	80.00%	88.92%

\* PPA governed stations

### 3.4. PLANT LOAD FACTOR

- 3.4.1. The actual Plant Load Factor achieved by the GSECL during FY 2019-20 along with approved values is tabulated below.

TABLE 8 : PLANT LOAD FACTOR (IN %)

Sl.No.	Power Station	FY 2019-20	
		Approved	Actuals
1	Ukai (3-5)	56.00%	55.03%
2	Gandhinagar (3-4)	45.00%	20.00%
3	Gandhinagar 5*	77.00%	52.65%
4	Wanakbori 1-6 TPS	50.00%	35.91%
5	Wanakbori 7 TPS*	70.00%	58.15%
6	Sikka Extn. (3-4)*	70.00%	61.73%
7	KLTPS 1-3	75.00%	35.28%
8	KLTPS 4	75.00%	49.31%
9	BLTPS*	80.00%	13.91%
10	Dhuvaran CCPP 1*	25.00%	20.34%
11	Dhuvaran CCPP 2	25.00%	9.33%
12	Dhuvaran CCPP 3*	25.00%	16.83%
13	Utran Extension*	25.00%	22.70%
14	Ukai 6*	77.00%	64.47%
15	Wanakbori 8 TPS*	85.00%	16.26%
16	Ukai Hydro	13.00%	29.66%
17	Kadana Hydro	6.00%	22.28%

\* PPA governed stations

### 3.5. AUXILIARY CONSUMPTION

3.5.1. The actual Auxiliary consumption recorded by GSECL during FY 2019-20 along with approved parameters has been mentioned below. The old stations of GSECL, when operated at part load capacities under the constraints as shown, consume more auxiliary power resulting in higher auxiliary consumption

3.5.2. For true-up, the factors impacting auxiliary consumption of GSECL stations & reasons for deviation from norms are as below:

- **Ukai 3-5:** Partial Operation due to backing down (Parial Operation-72.95 %) & APC cons during RSD -0.24%
- **Ukai 6:** Partial Operation due to backing down (Parial Operation-63.97 %)
- **Gandhinagar 3-4:** Partial Operation due to backing down (Parial Operation-77.64 %) & APC cons during RSD - 2.64%
- **Gandhinagar 5:** Partial Operation due to backing down (Parial Operation-72.30 %) & APC cons during RSD - 0.78%
- **Wanakbori 1-6:** Partial Operation due to backing down (Parial Operation-81.34 %) & APC cons during RSD - 0.78%
- **Wanakbori 7:** Partial Operation due to backing down (Parial Operation-77.86 %) & APC cons during RSD - 0.48%
- **Wanakbori 8:** Partial Operation due to backing down (Parial Operation-64.53 %) & APC cons during RSD - 0.78%
- **Sikka 3 & 4:** Partial Operation due to backing down (Parial Operation-74.26 %) & APC cons during RSD - 0.30%
- **KLTPS 1-3:** Partial Operation due to poor lignite quality & Unit constrains (Parial Operation)

- **KLTPS 4:** Partial Operation due to poor lignite quality & Unit constrains (Parial Operation)
- **BLTPS 1-2:** Partial Operation due to unit constrains (Parial Operation - 100%), Forced outages
- **Dhuvaran 1:** Partial Operation due to backing down (Parial Operation-71.79 %) APC cons during RSD - 2.98%
- **Dhuvaran 2:** Partial Operation due to backing down (Parial Operation-69.91 %) APC cons during RSD - 2.46%
- **Dhuvaran 3:** Partial Operation due to backing down (Parial Operation-75.53 %) APC cons during RSD - 1.57%
- **Utran Extension:** Partial Operation due to backing down (Parial Operation-67.52 %) APC cons during RSD - 0.84%
- **Ukai Hydro:** Irrigation Dependent - low reservoir level

3.5.3. Over and above backing down, the units frequently undergo reserve shut down and during the same, minimum auxiliaries are required to be run to keep the units available so that the same can be taken as & when required by SLDC / system.

**TABLE 9 : AUXILIARY CONSUMPTION (IN %)**

SI.No.	Power Station	FY 2019-20	
		Approved	Actuals
1	Ukai (3-5)	9.00%	9.90%
2	Gandhinagar (3-4)	9.00%	12.75%
3	Gandhinagar 5*	9.50%	10.71%
4	Wanakbori 1-6 TPS	9.00%	9.90%
5	Wanakbori 7 TPS*	9.50%	9.92%
6	Sikka Extn. (3-4)*	9.00%	9.47%
7	KLTPS 1-3	12.00%	15.42%
8	KLTPS 4	12.00%	21.96%
9	BLTPS*	11.00%	23.97%
10	Dhuvaran CCPP 1*	4.00%	7.35%
11	Dhuvaran CCPP 2	3.00%	9.81%
12	Dhuvaran CCPP 3*	3.00%	4.36%
13	Utran Extension*	3.00%	3.96%
14	Ukai 6*	6.00%	6.42%
15	Wanakbori 8 TPS*	5.25%	8.81%
16	Ukai Hydro	0.60%	0.73%
17	Kadana Hydro	1.00%	0.65%

\* PPA governed stations

### 3.6. STATION HEAT RATE

3.6.1. Actual Station Heat Rate attained by the generating stations of GSECL during FY 2019-20 along with approved parameters has been mentioned in the table below. It may be noted that for any generation plant, the SHR always deteriorates with the time. Hence, the old stations of GSECL are not expected to achieve the SHR comparable to the norms of the Hon'ble Commission. Further as and when any unit operates on partial load, SHR increases drastically. GSECL has taken measures to improve SHR due to which some stations have shown considerable improvement.

3.6.2. For true-up, the factors impacting SHR of GSECL stations & reasons for deviation from norms are as below:

- **Gandhinagar 5:** Partial load operation due to backing down & Frequent start stop due to RSD (11 Nos)
- **Wanakbori 7:** Partial load operation due to backing down & Frequent start stop due to RSD (17 Nos)
- **Sikka Extn 3-4:** Partial Operation due to backing down & Frequent start stop due to RSD (26 Nos)
- **KLPTS 1-3:** Partial Operation due to poor lignite quality & constrains, start stop due to forced Outages (58 Nos)
- **KLPTS 4:** Partial Operation due to problems of FBHE Evaporator and Super heater, and frequent start stop due to Forced outages (17 Nos)
- **BLTPS 1-2:** Partial Operation due to unit constrains and Frequent start stop due to forced outages (24 Nos)
- **Dhuvaran CCPP1:** Partial load operation due to backing down and frequent start stop due to RSD (166 Nos)
- **Dhuvaran CCPP2:** Partial load operation due to backing down and frequent start stop due to RSD (45 Nos)
- **Dhuvaran CCPP3:** Partial load operation due to backing down and frequent start stop due to RSD (40 Nos)

**TABLE 10 : STATION HEAT RATE (IN KCAL/KWH)**

SI.No.	Power Station	FY 2019-20	
		Approved	Actuals
1	Ukai (3-5)	2625	2596
2	Gandhinagar (3-4)	2625	2581
3	Gandhinagar 5*	2460	2538
4	Wanakbori 1-6 TPS	2575	2539
5	Wanakbori 7 TPS*	2460	2463
6	Sikka Extn. (3-4)*	2398	2479
7	KLTPS 1-3	3231	3303
8	KLTPS 4	3000	3121
9	BLTPS*	2623	3365
10	Dhuvaran CCPP 1*	1950	2138
11	Dhuvaran CCPP 2	1950	2156
12	Dhuvaran CCPP 3*	1850	1956
13	Utran Extension*	1850	1839
14	Ukai 6*	2385	2340
15	Wanakbori 8 TPS*	2248	2189

\* PPA governed stations

### 3.7. SPECIFIC FUEL OIL CONSUMPTION

3.7.1. The actual Specific Oil Consumption recorded by GSECL during FY 2019-20 along with approved values are mentioned below:

3.7.2. It may be noted that the Specific Oil Consumption is calculated in terms of percentage of total calorific requirement of the power generating unit and has relation with the size of the generating unit. For the lower size units the Specific Oil Consumption remains higher as compared to larger size power generating units, because certain amount of Specific Oil consumption remains fixed irrespective of the size of the generating unit. As most of the units of GSECL power stations are smaller in size, Specific Oil Consumption of these plants is generally high.

3.7.3. For true-up, the factors impacting SFC consumption of GSECL stations & reasons for deviation from norms are as below:

- **Ukai 3-5:** Start / stop due to RSD (35 nos; 0.35 ml/kwh)
- **Gandhinagar 3-4:** Start stop due to RSD (33 nos; 2.18 ml/kwh)
- **Wanakbori 1-6:** Start stop due to RSD (122 nos; 0.70 ml/kwh)
- **Wanakbori 8:** Start stop due to RSD (3 nos and 0.30 ml/kwh) and forced Outages (4 nos; 2.46 ml/kwh)
- **Sikka 3-4:** Start stop due to RSD (26 nos; 0.46 ml/kwh)
- **KLTPS 1-3:** higher forced outages (58 Nos) and Non availability of coal mills due to poor lignite quality
- **KLTPS 4:** higher forced outages (17 Nos) and Non availability of coal mills due to poor lignite quality
- **BLTPS 1-2:** higher forced outages (24 Nos) and Partial Operation due to unit constrains

TABLE 11 : SPECIFIC OIL CONSUMPTION (IN ML/KWH)

Sl.No.	Power Station	FY 2019-20	
		Approved	GSECL (Actuals)
1	Ukai (3-5)	1.00	1.32
2	Gandhinagar (3-4)	1.00	2.59
3	Gandhinagar 5*	3.50	0.83
4	Wanakbori 1-6 TPS	1.00	1.51
5	Wanakbori 7 TPS*	3.50	0.83
6	Sikka Extn. (3-4)*	1.00	1.25
7	KLTPS 1-3	3.00	9.21
8	KLTPS 4	3.00	2.61
9	BLTPS*	1.00	5.09
10	Ukai 6*	1.00	0.66
11	Wanakbori 8 TPS*	0.50	3.67

\* PPA governed stations

### 3.8. TRANSIT LOSS

3.8.1. Approved Transit loss for FY 2019-20 and Actual Transit loss for FY 2019-20 has been mentioned below:

TABLE 12 : TRANSIT LOSS

Sl.No.	Power Station	FY 2019-20	
		Approved	GSECL (Actuals)
1	Ukai (3-5)	0.80%	0.39%
2	Gandhinagar (3-4)	0.80%	0.10%
3	Gandhinagar 5*	0.80%	0.10%
4	Wanakbori 1-6 TPS	0.80%	0.35%
5	Wanakbori 7 TPS*	0.80%	0.35%
6	Sikka Extn. (3-4)*	0.00%	0.00%
7	KLTPS 1-3	0.20%	0.20%
8	KLTPS 4	0.20%	0.20%
9	BLTPS*	0.80%	0.24%
10	Ukai 6*	0.80%	0.39%
11	Wanakbori 8 TPS*	0.80%	0.35%

\* PPA governed stations

### 3.9. NET GENERATION

3.9.1. Based on plant load factor and auxiliary consumption discussed in aforesaid sections, the Gross generation & net generation for GSECL stations for FY 2019-20 has been mentioned below:

TABLE 13 : STATION WISE NET GENERATION FOR TRUE-UP

Sl.No.	Power Station	Gross Generation (MU)	Auxiliary Consumption (%)	Auxiliary Consumption (MU)	Net Generation (MU)
1	Ukai (3-5)	2948.91	9.90%	291.85	2657.06
2	Gandhinagar (3-4)	737.91	12.75%	94.05	643.86
3	Gandhinagar 5*	971.12	10.71%	104.03	867.09
4	Wanakbori 1-6 TPS	3974.74	9.90%	393.52	3581.22
5	Wanakbori 7 TPS*	1072.59	9.92%	106.43	966.17
6	Sikka Extn. (3-4)*	2711.21	9.47%	256.63	2454.58
7	KLTPS 1-3	558.35	15.42%	86.09	472.26
8	KLTPS 4	324.84	21.96%	71.32	253.52
9	BLTPS*	610.99	23.97%	146.45	464.55
10	Dhuvaran CAPP 1*	190.50	7.35%	14.01	176.49
11	Dhuvaran CAPP 2	92.12	9.81%	9.04	83.08
12	Dhuvaran CAPP 3*	556.16	4.36%	24.27	531.89
13	Utran Extension*	746.86	3.96%	29.54	717.32
14	Ukai 6*	2831.37	6.42%	181.86	2649.51
15	Wanakbori 8 TPS*	533.98	8.81%	47.03	486.94
16	Ukai Hydro	794.55	0.73%	5.82	788.73
17	Kadana Hydro	473.57	0.65%	3.07	470.51

\* PPA governed stations

### 3.10. FUEL RELATED PARAMETERS

3.10.1. The table below summaries actual value of weighted average Gross Calorific Value of primary fuels and secondary fuel recorded by GSECL along with approved GCV for primary & secondary fuel, coal mix for FY 2019-20 is mentioned below:

**TABLE 14 : SUMMARY OF FUEL RELATED PARAMETERS**

Sl. No.	Power Station	Indigenous Coal (%)	Washed Coal (%)	Imported Coal (%)	Weighted average GCV of Lignite Kcal/Kg	Weighted average GCV of coal Kcal/Kg	Weighted average GCV of gas Kcal/SCM	Weighted average GCV of Oil Kcal/litre
1	Ukai (3-5)	20.25%	79.40%	0.34%		3,788		10,461
2	Gandhinagar (3-4)	26.03%	73.07%	0.90%		3,755		10,440
3	Gandhinagar 5*	17.34%	79.90%	2.77%		3,755		10,482
4	Wanakbori 1-6 TPS	15.23%	84.09%	0.68%		3,882		10,350
5	Wanakbori 7 TPS*	15.30%	84.09%	0.61%		3,861		10,371
6	Sikka Extn. (3-4)*	0.00%	0.12%	99.88%		5,129		10,285
7	KLTPS 1-3				2,282			10,311
8	KLTPS 4				2,282			10,311
9	BLTPS*				2,753			10,807
10	Dhuvaran CCPP 1*						9,544	-
11	Dhuvaran CCPP 2						9,393	-
12	Dhuvaran CCPP 3*						9,268	-
13	Utran Extension*						9,327	-
14	Ukai 6*	13.06%	86.74%	0.21%		3,830		10,479
15	Wanakbori 8 TPS*	13.14%	86.86%	0.00%		3,807		10,363

\* PPA governed stations

3.10.2. The Fuel related parameters mentioned above have been used for computation of variable cost for GSECL stations.

3.10.3. The summary of actual coal prices for FY 2019-20 along with mix of coal for the year is shown in following table.

TABLE 15 : SUMMARY OF FUEL PRICES FOR FY 2019-20

Sl. No.	Power Station	Weighted Av. Cost of indigenous coal (Rs./MT)	Weighted Av. Cost of Washed Coal (Rs./MT)	Weighted Av. Cost of Imported Coal (Rs./MT)	Weighted Av. Cost of Coal (Rs./MT)	Weighted Av. Cost of Gas (Rs./SCM)	Weighted Av. Cost of Oil (Rs./KI)
1	Ukai (3-5)	3,845	5,064	7,854	4,827		39,186
2	Gandhinagar (3-4)	4,371	5,524	7,756	5,244		37,442
3	Gandhinagar 5*	4,052	5,495	7,752	5,307		39,596
4	Wanakbori 1-6 TPS	4,270	5,479	7,542	5,309		38,244
5	Wanakbori 7 TPS*	4,188	5,459	7,512	5,277		38,619
6	Sikka Extn. (3-4)*	-	5,181	6,917	6,915		42,343
7	KLTPS 1-3	-	-	-	1,649		42,217
8	KLTPS 4	-	-	-	1,621		48,207
9	BLTPS*	-	-	-	2,652		47,992
10	Dhuvaran CCPP 1*	-	-	-		14.22	-
11	Dhuvaran CCPP 2	-	-	-		15.03	-
12	Dhuvaran CCPP 3*	-	-	-		17.35	-
13	Utran Extension*	-	-	-		17.79	-
14	Ukai 6*	3,756	4,990	7,757	4,835		39,328
15	Wanakbori 8 TPS*	4,041	5,533	-	5,337		37,178

\* PPA governed stations

3.10.4. The GSECL requests the Hon'ble Commission to approve the variable cost parameters as outlined above and any variation in the fuel mix, quality and rate will be affecting the variable cost accordingly.



## SECTION 4. TRUE UP OF FY 2019-20

### 4.1. PREAMBLE

- 4.1.1. This section outlines the actual performance of GSECL for FY 2019-20. In line with the provisions of the MYT Regulations, 2016, GSECL hereby submits a detailed Actual Performance for 2019-20 comparing with the figures approved by the Hon'ble Commission vide "MYT Order dated 24<sup>th</sup> April, 2019".
- 4.1.2. In line with the provisions under MYT Regulations, 2016 GSECL has filed this True Up Petition for the year FY 2019-20, wherein, GSECL is submitting actual performance for FY 2019-20 vis-à-vis its comparison with approved parameters for FY 2019-20 by the Hon'ble Commission.
- 4.1.3. For the purpose of True-Up all the expense heads has been categorized into Controllable and Uncontrollable factors as shown in the following sections. A head wise comparison has been made between the values approved by the Hon'ble Commission vide "MYT Order dated 24<sup>th</sup> April, 2019" and the actual values for various expenditures for FY 2019-20.
- 4.1.4. GSECL has worked out its Aggregate Revenue Requirement (ARR) for FY 2019-20 as a part of the True Up for FY 2019-20. GSECL has presented the actual cost components based on audited annual accounts for FY 2019-20.

### 4.2. COMPUTATION OF FUEL EXPENSES FOR FY 2019-20

- 4.2.1. Based on operating and fuel related parameters estimated by GSECL during FY 2019-20, plant wise fuel expenses arrived are tabulated below.

TABLE 16 : FUEL EXPENSES FOR FY 2019-20 (RS. CRORE)

Sr.No.	Power Station	Net Generation (Actual) (MU)	Fuel Cost (Approved) (Rs. Crores)	Fuel Cost (Actual) (Rs. Crores)
1	Ukai (3-5)	2,657.06	992.08	989.62
2	Gandhinagar (3-4)	643.86	263.05	270.62
3	Gandhinagar 5*	867.09	341.46	350.75
4	Wanakbori 1-6 TPS	3,581.22	1,406.37	1,399.31
5	Wanakbori 7 TPS*	966.17	370.91	364.51
6	Sikka Extn. (3-4)*	2,454.58	879.84	915.86
7	KLTPS 1-3	472.26	130.90	151.16
8	KLTPS 4	253.52	64.92	75.48
9	BLTPS*	464.55	133.83	209.74
10	Dhuvaran CCPP 1*	176.49	53.42	60.69
11	Dhuvaran CCPP 2	83.08	26.73	31.77
12	Dhuvaran CCPP 3*	531.89	189.90	203.61
13	Utran Extension*	717.32	260.87	261.96
14	Ukai 6*	2,649.51	862.85	844.70
15	Wanakbori 8 TPS*	486.94	163.75	168.85
16	Ukai Hydro	788.73	-	-
17	Kadana Hydro	470.51	-	-

\* PPA governed stations

### 4.3. ENERGY CHARGES FOR FY 2019-20

- 4.3.1. Based on operating parameters and actual fuel cost, Energy Charges for FY 2019-20 for GSECL's power stations are mentioned below.

**TABLE 17 : ENERGY CHARGES FOR FY 2019-20 (IN Rs/kWh)**

Sr.No.	Power Station	Approved	Actual
1	Ukai (3-5)	3.73	3.72
2	Gandhinagar (3-4)	4.09	4.20
3	Gandhinagar 5*	3.94	4.05
4	Wanakbori 1-6 TPS	3.93	3.91
5	Wanakbori 7 TPS*	3.84	3.77
6	Sikka Extn. (3-4)*	3.58	3.73
7	KLTPS 1-3	2.77	3.20
8	KLTPS 4	2.56	2.98
9	BLTPS*	2.88	4.51
10	Dhuvaran CCPP 1*	3.03	3.44
11	Dhuvaran CCPP 2	3.22	3.82
12	Dhuvaran CCPP 3*	3.57	3.83
13	Utran Extension*	3.64	3.65
14	Ukai 6*	3.26	3.19
15	Wanakbori 8 TPS*	3.36	3.47

\* PPA governed stations

#### 4.4. GAINS/ (LOSSES) FROM FUEL EXPENSES ON ACCOUNT OF EFFICIENCY

4.4.1. For the purpose of True Up and for determination of gains or losses on account of operational performance of the generating stations, GSECL has derived fuel expenses considering performance parameters such as auxiliary consumption, station heat rate, specific oil consumption and transit loss as approved by the Hon'ble Commission in "MYT Order dated 24<sup>th</sup> April, 2019" and considering the actual fuel related parameters such as GCV of fuel and price of fuels etc. recorded by GSECL. The fuel expenses so derived have been compared with the fuel expenses actually incurred with actual performance parameters of GSECL for identification of gains/ losses on account of efficiency of these performance parameters. Thus, based on the same, GSECL's gain/ (losses) is Rs. (33.92) Crores in fuel expenses on account of operational efficiencies during FY 2019-20. The same would be treated appropriately in line with the provisions of the MYT regulations, 2016.

**TABLE 18 : GAINS/ (LOSSES) FROM FUEL EFFICIENCY (RS. CRORE)**

Sr.No.	Power Station	Fuel Cost with Approved operational parameters	Fuel cost incurred by GSECL	Gain/(Loss) due to controllable parameter
1	Ukai (3-5)	992.08	989.62	2.46
2	Gandhinagar (3-4)	263.05	270.62	(7.57)
3	Gandhinagar 5*	341.46	350.75	
4	Wanakbori 1-6 TPS	1,406.37	1,399.31	7.06
5	Wanakbori 7 TPS*	370.91	364.51	
6	Sikka Extn. (3-4)*	879.84	915.86	
7	KLTPS 1-3	130.90	151.16	(20.26)
8	KLTPS 4	64.92	75.48	(10.56)
9	BLTPS*	133.83	209.74	
10	Dhuvaran CCPP 1*	53.42	60.69	
11	Dhuvaran CCPP 2	26.73	31.77	(5.05)
12	Dhuvaran CCPP 3*	189.90	203.61	
13	Utran Extension*	260.87	261.96	
14	Ukai 6*	862.85	844.70	
15	Wanakbori 8 TPS*	163.75	168.85	
16	Ukai Hydro	-	-	-
17	Kadana Hydro	-	-	-
Total		6,140.87	6,298.64	(33.92)

\* PPA governed stations

#### 4.5. CAPITAL EXPENDITURE

4.5.1. The actual capitalization for FY 2019-20 is as given below:

**TABLE 19 : ACTUAL CAPITALIZATION FOR FY 2019-20 (RS. CRORE)**

Sr. No.	Station	Particulars	Capitalization
			FY 19-20 Actuals
1	Ukai (3-5)	Debt	16.28
		Equity	6.98
		<b>Total</b>	<b>23.26</b>
2	Gandhinagar (3-4)	Debt	22.98
		Equity	9.85
		<b>Total</b>	<b>32.83</b>
3	Gandhinagar 5*	Debt	-
		Equity	-
		<b>Total</b>	<b>-</b>
4	Wanakbori 1-6 TPS	Debt	42.83
		Equity	18.35
		<b>Total</b>	<b>61.18</b>
5	Wanakbori 7 TPS*	Debt	-
		Equity	-
		<b>Total</b>	<b>-</b>
6	Sikka Extn. (3-4)*	Debt	18.48
		Equity	7.92
		<b>Total</b>	<b>26.40</b>
7	KLTPS 1-3	Debt	33.53
		Equity	14.37
		<b>Total</b>	<b>47.90</b>
8	KLTPS 4	Debt	0.67
		Equity	0.29
		<b>Total</b>	<b>0.96</b>
9	BLTPS	Debt	4.76
		Equity	2.04
		<b>Total</b>	<b>6.80</b>
10	Dhuvaran CCPP 1*	Debt	0.03
		Equity	0.01
		<b>Total</b>	<b>0.04</b>
11	Dhuvaran CCPP 2	Debt	5.00
		Equity	2.14
		<b>Total</b>	<b>7.14</b>
12	Dhuvaran CCPP 3*	Debt	-
		Equity	-
		<b>Total</b>	<b>-</b>
13	Utran Extension*	Debt	0.25
		Equity	0.11
		<b>Total</b>	<b>0.35</b>
14	Ukai 6	Debt	11.29
		Equity	4.84
		<b>Total</b>	<b>16.13</b>
15	Wanakbori 8 TPS	Debt	2,988.39
		Equity	1,280.74
		<b>Total</b>	<b>4,269.13</b>
16	Ukai Hydro	Debt	0.57
		Equity	0.25
		<b>Total</b>	<b>0.82</b>
17	Kadana Hydro	Debt	1.65
		Equity	0.71
		<b>Total</b>	<b>2.35</b>
	<b>Total</b>	Debt	3,146.71
		Equity	1,348.59
		<b>Total</b>	<b>4,495.31</b>

\* PPA governed stations



**4.6. FIXED COST FOR FY 2019-20**

4.6.1. Based on the Capital Cost and the consequent Capitalized Expenditure the funding of the capital expenditure through debt & Equity, etc. the actual figures for fixed cost of GSECL for FY 2019-20 has been outlined thereof. As outlined under the regulations, the fixed cost for GSECL has been categorized under the following heads:

- Depreciation
- Interest and Finance Charges
- Return on Equity
- Operation and Maintenance Expenses
- Interest on Working Capital
- Water Charges
- SLDC Charges
- Income Tax
- Non-Tariff Income

4.6.2. For FY 2019-20, GSECL has determined actual fixed cost for its generating station on the basis of MYT Regulations, 2016, and annual audited accounts for FY 2019-20.

**TABLE 20 : ACTUAL FIXED COST FOR GSECL FOR FY 2019-20 (RS. CRORE)**

Sr. No.	Power Station	Depreciation	Interest & Finance charges	Return on Equity	O&M expenses	Water Charges	SLDC charges	Tax	Interest on working capital	Total fixed cost	Non- tariff income	Net fixed charges
		(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	(Actual)	
1	Ukai (3-5)	42.80	-	22.18	213.19	-	0.38	3.46	35.37	317.37	33.46	283.91
2	Gandhinagar (3-4)	33.04	-	23.19	109.37	42.10	0.26	2.38	27.48	237.82	10.18	227.64
3	Gandhinagar 5*	2.16	-	28.67	54.69	21.05	0.13	1.19	13.64	121.54	9.96	111.58
4	Wanakbori 1-6 TPS	89.63	24.15	88.70	218.05	38.46	0.78	7.14	78.25	545.16	43.02	502.14
5	Wanakbori 7 TPS*	2.15	-	26.16	14.64	10.17	0.13	1.19	12.70	67.14	14.44	52.70
6	Sikka Extn. (3-4)*	179.58	132.82	135.93	130.73	5.11	0.31	2.83	32.43	619.75	5.17	614.58
7	KLTPS 1-3	35.87	1.34	52.91	109.38	0.25	0.13	1.22	9.60	210.71	7.12	203.59
8	KLTPS 4	36.32	10.89	29.63	19.81	0.15	0.05	0.42	3.60	100.88	4.51	96.37
9	BLTPS*	238.62	152.02	151.97	75.58	6.32	0.32	-	28.40	653.22	14.84	638.38
10	Dhuvaran CCPP 1*	9.73	-	10.45	52.24	0.19	0.07	0.60	5.18	78.47	0.73	77.74
11	Dhuvaran CCPP 2	12.92	3.88	14.37	51.98	0.20	0.07	0.64	5.79	89.84	0.73	89.11
12	Dhuvaran CCPP 3*	78.77	65.56	67.01	7.01	0.66	0.23	2.13	19.58	240.98	0.95	240.03
13	Utran Extension*	68.22	32.43	57.49	44.68	2.40	0.23	2.12	19.32	226.89	0.47	226.42
14	Ukai 6*	155.11	96.41	125.18	38.05	-	0.31	2.83	28.68	446.57	15.43	431.14
15	Wanakbori 8 TPS*	102.58	113.32	83.77	12.36	5.95	0.03	-	22.18	340.19	0.40	339.79
16	Ukai Hydro	2.31	2.07	10.62	13.67	-	0.19	1.73	0.61	31.20	0.15	31.05
17	Kadana Hydro	5.44	-	28.82	21.49	-	0.15	1.37	1.17	58.44	0.39	58.04
	<b>Total</b>	<b>1,095.25</b>	<b>634.89</b>	<b>957.06</b>	<b>1,186.92</b>	<b>133.00</b>	<b>3.77</b>	<b>31.26</b>	<b>344.00</b>	<b>4,386.16</b>	<b>161.95</b>	<b>4,224.21</b>

\* PPA governed stations

4.6.3. In "MYT Order dated 24<sup>th</sup> April, 2019", the Hon'ble Commission had approved fixed cost for GSECL's power stations for FY 2019-20 as mentioned below.

TABLE 21 : APPROVED FIXED COST FOR GSECL FOR FY 2019-20 (RS. CRORE)

Sr.No.	Power Station	Depreciation	Interest & Finance charges	Return on Equity	O&M expenses	Water Charges	SLDC charges	Tax	Interest on working capital	Total fixed cost	Non- tariff income	Net fixed charges
1	Ukai (3-5)	74.23	35.79	27.47	174.13	0.10	0.60	3.47	29.93	345.72	15.87	329.85
2	Gandhinagar (3-4)	56.15	2.07	17.58	96.85	7.01	0.50	2.39	22.47	205.02	12.50	192.52
3	Gandhinagar 5*	-	-	30.88	24.68	11.87	0.05	1.19	14.70	83.37	11.93	71.44
4	Wanakbori 1-6 TPS	122.72	23.88	91.78	253.41	35.76	0.81	7.17	67.24	602.77	46.29	556.48
5	Wanakbori 7 TPS*	-	-	28.03	20.48	8.18	0.05	1.19	11.49	69.42	6.75	62.67
6	Sikka Extn. (3-4)*	172.90	161.10	137.53	106.80	1.19	0.23	2.84	29.29	611.88	9.60	602.28
7	KLTPS 1-3	66.50	0.01	49.03	121.38	0.43	0.17	1.22	8.80	247.54	4.84	242.70
8	KLTPS 4	36.28	12.39	29.40	20.79	0.13	0.02	0.43	3.35	102.79	1.65	101.14
9	BLTPS*	190.87	158.31	151.83	159.50	-	0.24	-	29.51	690.26	-	690.26
10	Dhuvaran CCPP 1*	21.24	-	11.07	35.37	0.21	0.05	0.61	5.24	73.79	1.74	72.05
11	Dhuvaran CCPP 2	23.14	7.90	16.92	35.45	0.76	0.05	0.64	5.90	90.76	1.81	88.95
12	Dhuvaran CCPP 3*	76.43	71.64	65.36	73.64	-	0.17	2.14	13.12	302.50	4.32	298.18
13	Utran Extension*	66.54	37.58	57.60	58.68	3.64	0.14	2.13	19.22	245.53	5.69	239.84
14	Ukai 6*	141.13	112.02	122.46	106.80	0.10	0.34	2.84	29.95	515.64	12.71	502.93
15	Wanakbori 8 TPS*	110.15	128.40	87.62	67.86	-	-	-	26.01	420.04	-	420.04
16	Ukai Hydro	-	2.53	10.42	21.37	-	0.17	1.73	0.74	36.96	3.51	33.45
17	Kadana Hydro	15.81	-	28.76	25.73	-	0.15	1.38	1.32	73.15	3.06	70.09
	<b>Total</b>	<b>1,174.09</b>	<b>753.62</b>	<b>963.74</b>	<b>1,402.92</b>	<b>69.38</b>	<b>3.74</b>	<b>31.37</b>	<b>318.28</b>	<b>4,717.14</b>	<b>142.27</b>	<b>4,574.87</b>

\* PPA governed stations

**4.7. GAINS/ (LOSSES) FROM FIXED COST COMPONENTS**

4.7.1. GSECL has indicated the actual performance for FY 2019-20 for various cost components. The comparison of the actual value for fixed cost components for FY 2019-20 and the cost approved by the Hon'ble Commission has been done to arrive at the gains or losses for each of the element of the fixed cost of GSECL, which has been discussed in detail in subsequent paragraphs.

**4.8. GAIN/ LOSSES FROM DEPRECIATION**

4.8.1. Based on opening gross fixed assets as per the annual audited accounts and considering capital additions during the year, the actual depreciation for FY 2019-20 is Rs 1095.25 Crores as against Rs. 1174.09 Crores approved by the Hon'ble Commission. Accordingly, based on the above classification of cost elements into controllable and uncontrollable elements in line with the provisions of the MYT Regulations, 2016 GSECL has incurred a gain/ (loss) of Rs. 136.52 Crores due to variation in actual value of depreciation against the cost approved by the Hon'ble Commission.

4.8.2. For Generating Stations under the transfer scheme, the depreciation has been calculated as per the MYT Regulations, 2016. The relevant clause has been reproduced as under:

“Provided further that for a Generating Company or a Transmission Licensee or SLDC or a Distribution Licensee formed as a result of a Transfer Scheme, the depreciation on assets transferred under the Transfer Scheme shall be charged as per rates specified in these Regulations for a period of 12 years from the date of the Transfer Scheme, and thereafter depreciation will be spread over the balance useful life of the asset”

4.8.3. As per GSECL's Policy, the useful life has been extended to 35 years for thermal and hydro.

4.8.4. Overall, the depreciation of GSECL for the FY 19-20 is within the values approved by the Hon'ble Commission and request the Hon'ble Commission to approve the same.

4.8.5. The comparison of the actual value for depreciation during FY 2019-20 with the value approved by the Hon'ble Commission is as outlined below.

**TABLE 22 : GAIN/ (LOSSES) FROM DEPRECIATION FOR FY 2019-20 (RS. CRORE)**

Sl. No.	Power Station	Depreciation (approved)	Depreciation (Actual)	Gain/(Losses) due to controllable factors	Gain/(Losses) due to Uncontrollable factors
1	Ukai (3-5)	74.23	42.80		31.43
2	Gandhinagar (3-4)	56.15	33.04		23.11
3	Gandhinagar 5*	-	2.16		
4	Wanakbori 1-6 TPS	122.72	89.63		33.09
5	Wanakbori 7 TPS*	-	2.15		
6	Sikka Extn. (3-4)*	172.90	179.58		
7	KLTPS 1-3	66.50	35.87		30.63
8	KLTPS 4	36.28	36.32		(0.04)
9	BLTPS*	190.87	238.62		
10	Dhuvaran CAPP 1*	21.24	9.73		
11	Dhuvaran CAPP 2	23.14	12.92		10.22
12	Dhuvaran CAPP 3*	76.43	78.77		
13	Utran Extension*	66.54	68.22		
14	Ukai 6*	141.13	155.11		
15	Wanakbori 8 TPS*	110.15	102.58		
16	Ukai Hydro	-	2.31		(2.31)
17	Kadana Hydro	15.81	5.44		10.37
<b>Total</b>		<b>1174.09</b>	<b>1095.25</b>	<b>-</b>	<b>136.52</b>

\* PPA governed stations

#### 4.9. GAIN/ LOSSES FROM INTEREST & FINANCE CHARGES

- 4.9.1. The Hon'ble Commission has classified the Interest and finance charges as "uncontrollable" expenses in the true up for previous years. Taking the above into consideration, GSECL has considered the gains/losses on account in Interest and Finance Charges into "Uncontrollable" factors.
- 4.9.2. GSECL has incurred total Interest & finance charges for FY 2019-20 as Rs. 634.89 Crores in comparison to the approved costs of Rs. 753.62 Crores leading to an uncontrollable gain/ (loss) of Rs. 42.24 Crores.
- 4.9.3. The comparison of the actual value for Interest and Finance Charges during FY 2019-20 is mentioned as below.

**TABLE 23 : GAIN/ (LOSSES) FROM INTEREST & FINANCE CHARGES FOR FY 2019-20 (RS. CRORE)**

Sl. No.	Power Station	Interest & Finance Charges (approved)	Interest & Finance Charges (Actual)	Gain/(Losses) due to controllable factors	Gain/(Losses) due to Uncontrollable factors
1	Ukai (3-5)	35.79	-		35.79
2	Gandhinagar (3-4)	2.07	-		2.07
3	Gandhinagar 5*	-	-		
4	Wanakbori 1-6 TPS	23.88	24.15		(0.27)
5	Wanakbori 7 TPS*	-	-		
6	Sikka Extn. (3-4)*	161.10	132.82		
7	KLTPS 1-3	0.01	1.34		(1.33)
8	KLTPS 4	12.39	10.89		1.50
9	BLTPS*	158.31	152.02		
10	Dhuvaran CAPP 1*	-	-		
11	Dhuvaran CAPP 2	7.90	3.88		4.02
12	Dhuvaran CAPP 3*	71.64	65.56		
13	Utran Extension*	37.58	32.43		
14	Ukai 6*	112.02	96.41		
15	Wanakbori 8 TPS*	128.40	113.32		
16	Ukai Hydro	2.53	2.07		0.46
17	Kadana Hydro	-	-		-
<b>Total</b>		<b>753.62</b>	<b>634.89</b>	<b>-</b>	<b>42.24</b>

\* PPA governed stations

#### 4.10. GAIN/ LOSSES FROM RETURN ON EQUITY

- 4.10.1. The comparison of the actual value for Return on Equity (RoE) computed on basis of the opening equity for FY 2019-20 and additions to equity during the year on account of funding of capitalization in comparison to the RoE approved by the Hon'ble Commission in Tariff Order dated 24<sup>th</sup> April, 2019 resulted in uncontrollable gain/ (loss) of Rs. 0.94 Crore to GSECL as mentioned below.



**TABLE 24 : GAIN/ (LOSSES) FROM RETURN ON EQUITY FOR FY 2019-20 (RS. CRORE)**

Sl. No.	Power Station	Return on Equity (approved)	Return on Equity (Actual)	Gain/(Losses) due to controllable factors	Gain/(Losses) due to Uncontrollable factors
1	Ukai (3-5)	27.47	22.18		5.29
2	Gandhinagar (3-4)	17.58	23.19		(5.61)
3	Gandhinagar 5*	30.88	28.67		
4	Wanakbori 1-6 TPS	91.78	88.70		3.08
5	Wanakbori 7 TPS*	28.03	26.16		
6	Sikka Extn. (3-4)*	137.53	135.93		
7	KLTPS 1-3	49.03	52.91		(3.88)
8	KLTPS 4	29.40	29.63		(0.23)
9	BLTPS*	151.83	151.97		
10	Dhuvaran CCPP 1*	11.07	10.45		
11	Dhuvaran CCPP 2	16.92	14.37		2.55
12	Dhuvaran CCPP 3*	65.36	67.01		
13	Utran Extension*	57.60	57.49		
14	Ukai 6*	122.46	125.18		
15	Wanakbori 8 TPS*	87.62	83.77		
16	Ukai Hydro	10.42	10.62		(0.20)
17	Kadana Hydro	28.76	28.82		(0.06)
<b>Total</b>		<b>963.74</b>	<b>957.06</b>	<b>-</b>	<b>0.94</b>

\* PPA governed stations

4.10.2. The above variation is treated on account of uncontrollable factors in line with the provisions of the MYT Regulations, 2016 and accordingly the treatment for sharing of gains has been proposed.

#### 4.11. GAIN/ LOSSES FROM O&M EXPENSES

4.11.1. The Operation and Maintenance expenses have been classified as "controllable" in the true up for previous years. In the present Petition, GSECL has categorized Employee expenses, R&M expenses, and A & G expenses as controllable.

**TABLE 25 : GAIN/ (LOSSES) FROM O&M EXPENSES FOR FY 2019-20 (RS. CRORE)**

Sl. No.	Power Station	O&M expenses (approved)	O&M expenses (Actual)	Gain/(Losses) due to controllable factors	Gain/(Losses) due to Uncontrollable factors
1	Ukai (3-5)	174.13	213.19	(39.06)	
2	Gandhinagar (3-4)	96.85	109.37	(12.52)	
3	Gandhinagar 5*	24.68	54.69		
4	Wanakbori 1-6 TPS	253.41	218.05	35.36	
5	Wanakbori 7 TPS*	20.48	14.64		
6	Sikka Extn. (3-4)*	106.80	130.73		
7	KLTPS 1-3	121.38	109.38	12.00	
8	KLTPS 4	20.79	19.81	0.98	
9	BLTPS*	159.50	75.58		
10	Dhuvaran CCPP 1*	35.37	52.24		
11	Dhuvaran CCPP 2	35.45	51.98	(16.53)	
12	Dhuvaran CCPP 3*	73.64	7.01		
13	Utran Extension*	58.68	44.68		
14	Ukai 6*	106.80	38.05		
15	Wanakbori 8 TPS*	67.86	12.36		
16	Ukai Hydro	21.37	13.67	7.70	
17	Kadana Hydro	25.73	21.49	4.24	
<b>Total</b>		<b>1402.92</b>	<b>1186.92</b>	<b>(7.83)</b>	

\* PPA governed stations

#### 4.12. GAIN/ LOSSES FROM INTEREST ON WORKING CAPITAL

4.12.1. The Hon'ble Commission has considered the gains/losses arising from Interest on Working Capital as Uncontrollable in the previous year true ups.

4.12.2. The interest rate has been considered at the rate of 10.66% as per SBI MCLR for FY 2019-20 in line with the regulations.

4.12.3. The Working Capital has been computed as per provisions of MYT Regulations, 2016. Proposed sharing of gains/losses from IWC are as follows:

**TABLE 26 : GAIN/ (LOSSES) FROM INTEREST ON WORKING CAPITAL FOR FY 2019-20 (RS. CRORE)**

Sl. No.	Power Station	Interest on Working Capital (approved)	Interest on Working Capital (Actual)	Gain/(Losses) due to controllable factors	Gain/(Losses) due to Uncontrollable factors
1	Ukai (3-5)	29.93	35.37		(5.44)
2	Gandhinagar (3-4)	22.47	27.48		(5.01)
3	Gandhinagar 5*	14.70	13.64		
4	Wanakbori 1-6 TPS	67.24	78.25		(11.01)
5	Wanakbori 7 TPS*	11.49	12.70		
6	Sikka Extn. (3-4)*	29.29	32.43		
7	KLTPS 1-3	8.80	9.60		(0.80)
8	KLTPS 4	3.35	3.60		(0.25)
9	BLTPS*	29.51	28.40		
10	Dhuvaran CCPP 1*	5.24	5.18		
11	Dhuvaran CCPP 2	5.90	5.79		0.11
12	Dhuvaran CCPP 3*	13.12	19.58		
13	Utran Extension*	19.22	19.32		
14	Ukai 6*	29.95	28.68		
15	Wanakbori 8 TPS*	26.01	22.18		
16	Ukai Hydro	0.74	0.61		0.13
17	Kadana Hydro	1.32	1.17		0.15
<b>Total</b>		<b>318.28</b>	<b>344.00</b>	<b>-</b>	<b>(22.13)</b>

\* PPA governed stations

#### 4.13. GAIN/ LOSSES FROM SLDC CHARGES

4.13.1. The Hon'ble Commission has considered the gains/losses arising from SLDC Charges as Uncontrollable in its previous year true ups. Proposed sharing of gains/losses from SLDC Charges are as follows:

**TABLE 27 : GAIN/ (LOSSES) FROM SLDC CHARGES FOR FY 2019-20 (RS. CRORE)**

Sl. No.	Power Station	SLDC (approved)	SLDC (Actual)	Gain/(Losses) due to controllable factors	Gain/(Losses) due to Uncontrollable factors
1	Ukai (3-5)	0.60	0.38		0.22
2	Gandhinagar (3-4)	0.50	0.26		0.24
3	Gandhinagar 5*	0.05	0.13		
4	Wanakbori 1-6 TPS	0.81	0.78		0.03
5	Wanakbori 7 TPS*	0.05	0.13		
6	Sikka Extn. (3-4)*	0.23	0.31		
7	KLTPS 1-3	0.17	0.13		0.04
8	KLTPS 4	0.02	0.05		(0.03)
9	BLTPS*	0.24	0.32		
10	Dhuvaran CCPP 1*	0.05	0.07		
11	Dhuvaran CCPP 2	0.05	0.07		(0.02)
12	Dhuvaran CCPP 3*	0.17	0.23		
13	Utran Extension*	0.14	0.23		
14	Ukai 6*	0.34	0.31		
15	Wanakbori 8 TPS*	-	0.03		
16	Ukai Hydro	0.17	0.19		(0.02)
17	Kadana Hydro	0.15	0.15		(0.00)
<b>Total</b>		<b>3.74</b>	<b>3.77</b>	<b>-</b>	<b>0.46</b>

\* PPA governed stations

#### 4.14. GAIN/ LOSS FROM WATER CHARGES

4.14.1. The Hon'ble Commission has considered the gains/losses arising from Water Charges as Uncontrollable in its previous years true ups. Proposed sharing of gains/losses from Water Charges are as follows:

**TABLE 28 : GAIN/ (LOSSES) FROM WATER CHARGES FOR FY 2019-20 (RS. CRORE)**

Sl. No.	Power Station	Water Charges (approved)	Water Charges (actual)	Gain/(Losses) due to controllable factors	Gain/(Losses) due to Uncontrollable factors
1	Ukai (3-5)	0.10	-		0.10
2	Gandhinagar (3-4)	7.01	42.10		(35.09)
3	Gandhinagar 5*	11.87	21.05		
4	Wanakbori 1-6 TPS	35.76	38.46		(2.70)
5	Wanakbori 7 TPS*	8.18	10.17		
6	Sikka Extn. (3-4)*	1.19	5.11		
7	KLTPS 1-3	0.43	0.25		0.18
8	KLTPS 4	0.13	0.15		(0.02)
9	BLTPS*	-	6.32		
10	Dhuvaran CCPP 1*	0.21	0.19		
11	Dhuvaran CCPP 2	0.76	0.20		0.56
12	Dhuvaran CCPP 3*	-	0.66		
13	Utran Extension*	3.64	2.40		
14	Ukai 6*	0.10	-		
15	Wanakbori 8 TPS*	-	5.95		
16	Ukai Hydro	-	-		-
17	Kadana Hydro	-	-		-
<b>Total</b>		<b>69.38</b>	<b>133.00</b>	<b>-</b>	<b>(36.96)</b>

\* PPA governed stations

#### 4.15. GAIN/ LOSS FROM TAXES

4.15.1. The Hon'ble Commission has considered the gains/losses arising from Taxes as Uncontrollable in its previous year true ups. Proposed sharing of gains/losses from Taxes are as follows:

**TABLE 29 : GAIN/ (LOSSES) FROM TAXES FOR FY 2019-20 (RS. CRORE)**

Sl. No.	Power Station	Income Tax (approved)	Income Tax (actual)	Gain/(Losses) due to controllable factors	Gain/(Losses) due to Uncontrollable factors
1	Ukai (3-5)	3.47	3.46		0.01
2	Gandhinagar (3-4)	2.39	2.38		0.01
3	Gandhinagar 5*	1.19	1.19		
4	Wanakbori 1-6 TPS	7.17	7.14		0.03
5	Wanakbori 7 TPS*	1.19	1.19		
6	Sikka Extn. (3-4)*	2.84	2.83		
7	KLTPS 1-3	1.22	1.22		0.00
8	KLTPS 4	0.43	0.42		0.01
9	BLTPS*	-	-		
10	Dhuvaran CCPP 1*	0.61	0.60		
11	Dhuvaran CCPP 2	0.64	0.64		0.00
12	Dhuvaran CCPP 3*	2.14	2.13		
13	Utran Extension*	2.13	2.12		
14	Ukai 6*	2.84	2.83		
15	Wanakbori 8 TPS*	-	-		
16	Ukai Hydro	1.73	1.73		0.00
17	Kadana Hydro	1.38	1.37		0.01
<b>Total</b>		<b>31.37</b>	<b>31.26</b>	<b>-</b>	<b>0.07</b>

\* PPA governed stations

4.15.2. GSECL hereby requests the Hon'ble Commission to approve the tax expense for the FY 2019-20.

#### 4.16. GAIN/ LOSS FROM NON-TARIFF INCOME

4.16.1. The Hon'ble Commission has considered the gains/losses arising from Non-tariff income as Uncontrollable in its previous year true ups. Proposed sharing of gains/losses from Non-tariff income is as mentioned below.

**TABLE 30 : GAIN/ (LOSSES) FROM NON-TARIFF INCOME FOR FY 2019-20 (RS. CRORE)**



Sl. No.	Power Station	Non tariff Income (approved)	Non tariff Income (actual)	Gain/(Losses) due to controllable factors	Gain/(Losses) due to Uncontrollable factors
1	Ukai (3-5)	15.87	33.46		17.59
2	Gandhinagar (3-4)	12.50	10.18		(2.32)
3	Gandhinagar 5*	11.93	9.96		
4	Wanakbori 1-6 TPS	46.29	43.02		(3.27)
5	Wanakbori 7 TPS*	6.75	14.44		
6	Sikka Extn. (3-4)*	9.60	5.17		
7	KLTPS 1-3	4.84	7.12		2.28
8	KLTPS 4	1.65	4.51		2.86
9	BLTPS*	-	14.84		
10	Dhuvaran CCPP 1*	1.74	0.73		
11	Dhuvaran CCPP 2	1.81	0.73		(1.08)
12	Dhuvaran CCPP 3*	4.32	0.95		
13	Utran Extension*	5.69	0.47		
14	Ukai 6*	12.71	15.43		
15	Wanakbori 8 TPS*	-	0.40		
16	Ukai Hydro	3.51	0.15		(3.36)
17	Kadana Hydro	3.06	0.39		(2.67)
<b>Total</b>		<b>142.27</b>	<b>161.95</b>	<b>-</b>	<b>10.03</b>

\* PPA governed stations

#### 4.17. SHARING OF GAINS/ (LOSSES)

4.17.1. MYT Regulations, 2016, specifies the mechanism for treatment of Gains and Losses on account of Uncontrollable and Controllable expenses. The methodology approved by the Hon'ble Commission for sharing of such gains/ losses is as follows.

"23. Mechanism for pass through of gains or losses on account of uncontrollable factors"

"23.1 The approved aggregate gain or loss to the Generating Company or Transmission Licensee or Distribution Licensee on account of uncontrollable factors shall be passed through as an adjustment in the tariff of the Generating Company or Transmission Licensee or Distribution Licensee over such period as may be specified in the Order of the Commission passed under these Regulations."

"23.2 The Generating Company or Transmission Licensee or Distribution Licensee shall submit such details of the variation between expenses incurred and revenue earned and the figures approved by the Commission, in the prescribed format to the Commission, along with the detailed computations and supporting documents as may be required for verification by the Commission."

"23.3 Nothing contained in this Regulation 23 shall apply in respect of any gain or loss arising out of variations in the price of fuel and power purchase, which shall be dealt with as specified by the Commission from time to time."

"24 Mechanism for sharing of gains or losses on account of controllable factors: "

"24.1 The approved aggregate gain to the Generating Company or Transmission Licensee or Distribution Licensee on account of controllable factors shall be dealt with in the following manner: "

(a) One-third of the amount of such gain shall be passed on as a rebate in tariffs over such period as may be stipulated in the Order of the Commission under Regulation 21.6;

(b) The balance amount, which will amount to two-thirds of such gain, may be utilized at the discretion of the Generating Company or Transmission Licensee or Distribution Licensee.

“25.2 The approved aggregate loss to the Generating Company or Transmission Licensee or Distribution Licensee on account of controllable factors shall be dealt with in the following manner:”

(a) One-third of the amount of such loss may be passed on as an additional charge in tariffs over such period as may be stipulated in the Order of the Commission under Regulation 21.6; and

(b) The balance amount of loss, which will amount to two-thirds of such loss, shall be absorbed by the Generating Company or Transmission Licensee or Distribution Licensee.

4.17.2. Based on above methodology, the Petitioner has determined plant wise Gains/ losses incurred by the GSECL due to variation in the value of the actual cost parameters in comparison with those approved by the Hon'ble Commission. The table below summarizes plant wise total gains / (losses) incurred by GSECL on account of various controllable and uncontrollable expenses.

4.17.3. **Controllable Gain/ (Losses) on account of Efficiency Parameters:** Due to the difference between the actual efficiency parameters and the approved efficiency parameters, GSECL has achieved gain/ (losses) of Rs. (41.75) Crores. Based on the mechanism specified as per MYT Regulations, 2016 loss of Rs. (13.92) Crores shall be passed to the consumers.

Table 31 : Plant wise Controllable Gains/ Losses of GSECL for FY 2019-20 (Rs. Crore)

Sr.No.	Power Station	O&M expense	Fuel cost	Total gains/(losses) due to controllable factors	Total gains/(losses) to be passed through (1/3rd of gains/(losses))
1	Ukai (3-5)	(39.06)	2.46	(36.60)	(12.20)
2	Gandhinagar (3-4)	(12.52)	(7.57)	(20.09)	(6.70)
3	Gandhinagar 5*	-	-	-	-
4	Wanakbori 1-6 TPS	35.36	7.06	42.42	14.14
5	Wanakbori 7 TPS*	-	-	-	-
6	Sikka Extn. (3-4)*	-	-	-	-
7	KLTPS 1-3	12.00	(20.26)	(8.26)	(2.75)
8	KLTPS 4	0.98	(10.56)	(9.58)	(3.19)
9	BLTPS*	-	-	-	-
10	Dhuvaran CCPP 1*	-	-	-	-
11	Dhuvaran CCPP 2	(16.53)	(5.05)	(21.57)	(7.19)
12	Dhuvaran CCPP 3*	-	-	-	-
13	Utran Extension*	-	-	-	-
14	Ukai 6*	-	-	-	-
15	Wanakbori 8 TPS*	-	-	-	-
16	Ukai Hydro	7.70	-	7.70	2.57
17	Kadana Hydro	4.24	-	4.24	1.41
	<b>Total</b>	<b>(7.83)</b>	<b>(33.92)</b>	<b>(41.75)</b>	<b>(13.92)</b>

\* PPA governed stations

4.17.4. **Uncontrollable Gain/ (Losses):** GSECL has achieved gain/ (losses) of Rs. 131.16 Crores.

**TABLE 32 : PLANT WISE UNCONTROLLABLE GAINS/ LOSSES OF GSECL FOR FY19-20 (RS. CRORE)**

Sr.No.	Power Station	Depreciation	Interest & Finance charges	Return on Equity	Water Charges	SLDC charges	MAT	Interest on working capital	Non tariff income	Total gain/(losses) to be passed through
1	Ukai (3-5)	31.43	35.79	5.29	0.10	0.22	0.01	(5.44)	17.59	85.00
2	Gandhinagar (3-4)	23.11	2.07	(5.61)	(35.09)	0.24	0.01	(5.01)	(2.32)	(22.60)
3	Gandhinagar 5*	-	-	-	-	-	-	-	-	-
4	Wanakbori 1-6 TPS	33.09	(0.27)	3.08	(2.70)	0.03	0.03	(11.01)	(3.27)	18.98
5	Wanakbori 7 TPS*	-	-	-	-	-	-	-	-	-
6	Sikka Extn. (3-4)*	-	-	-	-	-	-	-	-	-
7	KLTPS 1-3	30.63	(1.33)	(3.88)	0.18	0.04	0.00	(0.80)	2.28	27.11
8	KLTPS 4	(0.04)	1.50	(0.23)	(0.02)	(0.03)	0.01	(0.25)	2.86	3.79
9	BLTPS*	-	-	-	-	-	-	-	-	-
10	Dhuvaran CCPP 1*	-	-	-	-	-	-	-	-	-
11	Dhuvaran CCPP 2	10.22	4.02	2.55	0.56	(0.02)	0.00	0.11	(1.08)	16.37
12	Dhuvaran CCPP 3*	-	-	-	-	-	-	-	-	-
13	Utran Extension*	-	-	-	-	-	-	-	-	-
14	Ukai 6*	-	-	-	-	-	-	-	-	-
15	Wanakbori 8 TPS*	-	-	-	-	-	-	-	-	-
16	Ukai Hydro	(2.31)	0.46	(0.20)	-	(0.02)	0.00	0.13	(3.36)	(5.30)
17	Kadana Hydro	10.37	-	(0.06)	-	(0.00)	0.01	0.15	(2.67)	7.81
	<b>Total</b>	<b>136.52</b>	<b>42.24</b>	<b>0.94</b>	<b>(36.96)</b>	<b>0.46</b>	<b>0.07</b>	<b>(22.13)</b>	<b>10.03</b>	<b>131.16</b>

\* PPA governed stations

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**4.18. NET ENTITLEMENT FOR FY 2019-20**

- 4.18.1. GSECL proposes to pass on total entitlement to the fixed cost of next Financial Year. GSECL request the Hon'ble Commission to allow plant wise gap to be passed on to the fixed charges in the FY 2021-22 for recovery.

**TABLE 33 : NET ENTITLEMENT/ (GAP) FOR FY 2019-20 (RS. CRORE)**

Sr.No.	Power Station	Gains/(losses) due to controllable factors	Gains/(losses) due to uncontrollable factors	Total gains/(losses) to be passed through
a	b	c	d	e= c/3 + d
1	Ukai (3-5)	(36.60)	85.00	72.80
2	Gandhinagar (3-4)	(20.09)	(22.60)	(29.30)
3	Gandhinagar 5*	-	-	-
4	Wanakbori 1-6 TPS	42.42	18.98	33.12
5	Wanakbori 7 TPS*	-	-	-
6	Sikka Extn. (3-4)*	-	-	-
7	KLTPS 1-3	(8.26)	27.11	24.36
8	KLTPS 4	(9.58)	3.79	0.60
9	BLTPS*	-	-	-
10	Dhuvaran CCPP 1*	-	-	-
11	Dhuvaran CCPP 2	(21.57)	16.37	9.18
12	Dhuvaran CCPP 3*	-	-	-
13	Utran Extension*	-	-	-
14	Ukai 6*	-	-	-
15	Wanakbori 8 TPS*	-	-	-
16	Ukai Hydro	7.70	(5.30)	(2.73)
17	Kadana Hydro	4.24	7.81	9.22
<b>Total</b>		<b>(41.75)</b>	<b>131.16</b>	<b>117.24</b>

\* PPA governed stations

- 4.18.2. It is requested to the Hon'ble Commission to approve the Revenue surplus of Rs. 117.24 Crores obtained after treating gains/ (losses) for FY 2019-20.

## SECTION 5. UNABSORBED DEPRECIATION FOR UKAI UNITS 1&2

### 5.1. UNABSORBED DEPRECIATION FOR UKAI UNITS 1 & 2

5.1.1. GSECL submits that the Units 1 and 2 of Ukai TPS have been decommissioned on 1 April, 2017. The accumulated depreciation charged by GSECL as on 1 April, 2017 stands at Rs. 354.90 Crore. The salvage value of the plant has been assessed at 10% of capital cost in line with the MYT Regulations. Based on above, there is a depreciation amounting to Rs. 167.79 Crore that has not been charged/ claimed by GSECL as shown in Table below:

**Table 34 : Remaining Depreciation of Ukai 1 - 2**

Particulars	Gross Fixed Assets on April 1, 2017	Accumulated Depreciation as on April 1, 2017	Net Block as on April 1, 2017	10 % of Gross Fixed Assets	(Rs Crores)
					Remaining Value of Depreciation to be charged
Fixed Assets excluding capital spares	336.62	159.71	176.91	33.66	143.25
Spares	219.73	195.19	24.54	-	24.54
<b>TOTAL</b>	<b>556.35</b>	<b>354.90</b>	<b>201.45</b>	<b>33.66</b>	<b>167.79</b>

5.1.2. GSECL further like to submit that it has now completed the sale process of the assets pertaining to Ukai Units 1 and 2 and has received an amount of Rs. 65.61 Crore as total sales proceeds. Further, as mentioned above the salvage/residual value of Ukai 1 & 2 has been assessed at Rs. 33.66 Crore. Hence, there is an excess recovery or profit amounting to Rs. 31.95 Crore (i.e., Rs. 65.61 Cr– Rs. 33.66 Cr) on account of sales proceed. GSECL has adjusted this excess recovery from the remaining depreciation to be charged and accordingly, has claimed an unabsorbed depreciation of Rs. 102.18 Crore.

**Table 35: Unabsorbed depreciation for Ukai Units 1- 2**

Particulars	Legend	(Rs Crores)
		Amount
Deprecation yet to be claimed from GERC	A	167.79
Total Sale Proceeds	B	65.61
Salvage Value	C	33.66
Excess recovery(Profit)	D=B-C	31.95
<b>Net Unabsorbed Depreciation to be Claimed in True up 2019-20</b>		<b>102.18</b>

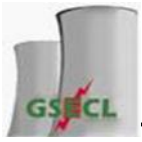
5.1.3. GSECL requests the Hon'ble Commission to approve the above unabsorbed depreciation for Ukai Units 1 and 2 and allow recovery of the same in FY 2021-22.



## SECTION 6. COMPLIANCE OF DIRECTIVES

### DIRECTIVES AND THEIR COMPLIANCE BY GSECL:

DIRECTIVE	COMPLIANCE TO THE DIRECTIVE
<p><b>8.1 <u>Compliance of Directives issued by the Commission</u></b></p>	
<p><b>8.2 Earlier Directives</b></p>	
<p><b><u>Directive 1: Renovation and Modernization (R&amp;M) of Thermal Plant</u></b>  GSECL may submit its further plan for R&amp;M of Ukai Unit 1 &amp; 2. Further, GSECL may also submit a quarterly progress report of the R&amp;M activities being undertaken for Wanakbori 1-6. Compliance as per current petition:</p> <ul style="list-style-type: none"> <li>• R&amp;M work of Ukai Unit No.1 &amp; 2 completed on 24.02.2010.</li> <li>• C &amp; I up-gradation work of Wanakbori TPS Unit No.6 is completed on 17.05.2015. So Unit No.2, 3, 4, 5 &amp; 6 are completed. Work of Unit No: 1 will be started as per the program of SLDC for Shut Down.</li> </ul> <p><b><u>Compliance:</u></b>  The report of R&amp;M work of WTPS-1 will be submitted at the earliest.</p> <p><b><u>Commission Comments:</u></b>  GSECL is directed to submit the report within a month from the date of this Order.</p>	<p><b><u>COMPLIANCE:</u></b>  Report of R &amp; M work of WTPS-1 is attached as <b>ANNEXURE.</b></p>
<p><b><u>Directive 2: Actual Performance Parameters</u></b>  GSECL shall submit month wise, at quarterly intervals, the actual performance parameters like PAF, PLF, SHR, Aux. Consumption, SFC, Transit loss etc. actual gross generation, actual net generation and coal stock position (both imported and indigenous) for each station to the Commission and place the said information on its website.</p> <p><b><u>Compliance:</u></b>  Performance Parameter and Coal stock Position month wise at quarterly intervals are attached as Annexure II and Annexure III of the petition.</p> <p><b><u>Commission Comments:</u></b>  The Commission has noted the submission. GSECL shall continue to submit the report as per directive.</p> <p><b><u>Further Compliance</u></b>  Performance Parameter and Coal stock Position month wise at quarterly intervals for FY 2018-19 (Q1 to Q4) and FY 2019-20 (Q1) are submitted.</p> <p><b><u>Commission Comments:</u></b></p>	<p><b><u>COMPLIANCE:</u></b>  Performance Parameter and Coal stock Position month wise at quarterly intervals are attached as <b>ANNEXURE-I</b> and <b>ANNEXURE-II.</b>  [For 1<sup>st</sup> to 4<sup>th</sup> Qtr of FY 2019-20]  AND  [For 1<sup>st</sup> Qtr of FY 2020-21]  1st Qtr of FY 2020-21 is uploaded on GSECL website on 31.07.2020.</p>



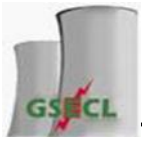
<p>The Commission has noted the submission. GSECL shall continue to submit the report as per directive.</p>	
<p><b><u>Directive 3: Deviation of Capital Expenditure</u></b> GSECL is directed to submit a prior intimation to the Commission with proper justification for any variation of more than 10% between approved and actual CAPEX.</p> <p><b><u>Compliance:</u></b> As Directed, if there is any deviation in Capital Expenditure, GSECL will intimate to the Commission.</p> <p><b><u>Commission Comments:</u></b> The Commission has noted the compliance and further direct that any investment / proposal / modification to be carried out for meeting the environmental guidelines of Gol shall be put up for approval of the Commission.</p> <p><b><u>Further Compliance:</u></b> GSECL will put up the CAPEX proposal to the Commission for modification to mitigate the environment norms as per guideline issued by Government of India.</p> <p><b><u>Commission Comments:</u></b> GSECL is directed to submit its Capex proposal in Tariff Petition for next Control Period commencing from April 1, 2021.</p>	<p><b><u>COMPLAINE:</u></b> GSECL will submit Capex proposal in Tariff Petition for next Control Period commencing from April 1, 2021.</p>
<p><b><u>Directive 4: Fuel Supply Arrangements</u></b> GSECL is directed to initiate efforts for optimizing fuel supply arrangements and submit the detailed report related to existing FSA with details related to take or pay liabilities, practice for procuring imported fuel, and present arrangement and action required for optimization of fuel supply arrangement by 30th June, 2017.</p> <p><b><u>Compliance:</u></b> GSECL has initiated the actions for optimization of coal cost and transferred the domestic coal to the own cheaper power Generating station to reduce the cost of Generation as a part of implementation of flexibility as per guideline issued by CEA and Ministry of power.</p>	<p><b><u>COMPLAINE:</u></b> Noted by Hon'ble Commission.</p>



<p>Further, GSECL has signed the supplementary agreement on 13th April, 2017 for implementation of Flexibility in Utilization of Domestic Coal with SECL and WCL. So that the coal ACQ shall be considered company as a whole instead of power station wise. So, coal penalty/incentive shall be calculated GSECL as a whole instead of power station wise.</p> <p>For supply of imported coal, GSECL has Long Term Supply Agreement with M/s APIL.</p> <p><b><u>Commission Comments:</u></b></p> <p>The Commission has noted the submission. However, it is directed to submit the copy of Long-Term Supply Agreement for imported coal between GSECL and APIL.</p> <p><b><u>Further Compliance:</u></b></p> <p>GSECL submitted the hard copy of Long Term Supply Agreement for Imported Coal between GSECL and APIL.</p> <p><b><u>Commission Comments:</u></b></p> <p>The Commission has noted the submission of the Petitioner.</p>	
<p><b>8.3 Directives issued vide Order dated 24<sup>th</sup> April, 2019</b></p>	
<p><b><u>Directive 1: Life Assessment &amp; fulfilling Environment Norms of GSECL Plants</u></b></p> <p>GSECL is directed to carry out detailed technical study on the aging of its different units at various stations for life assessment and requirement of any Renovation &amp; Modernization with techno-commercial assessment keeping new environmental norms of MoEF for Thermal Power Plants. GSECL shall submit a comprehensive report at the earliest.</p> <p><b><u>Compliance:</u></b></p> <p>LoI is issued to M/s Datang Technologies &amp; Engineering for Implementation FGD in 800 MW at the total price of Rs. 377 Crore with scheduled commissioning in Aug 2021.</p> <p><b><u>Commission Comments:</u></b></p> <p>The Commission noted the submission. GSECL is further directed to submit half yearly progress report for 800 MW plant and also submit the status with respect to above for other plants.</p>	<p><b><u>COMPLAINEE:</u></b></p> <p>Noted by Hon'ble Commission.</p> <p><b>Implementation FGD for other Plants</b></p> <p>For 500 MW Unit # 6 of UTPS &amp; 2 x 250 MW units # 3 &amp; 4 of STPS, Preparation of tender for EPC is under progress.</p> <p><b>Half Yearly Progress of Installation of Flue gas desulphurization (FGD) system in 800 MW Unit No. 8 of Wanakbori TPS</b></p> <p>Contract award: 16.03.2019.</p> <p>Contract value: Rs. 357 Cr including custom, insurance freight and P &amp; F charges &amp; GST</p> <p>Zero date of contract: 14.02.2019 (date of LOI)</p> <p>Scheduled Completion Date: 30 month from zero date i.e. 13.08.2021.</p> <p><b><u>Technical progress:</u></b></p> <p><b><u>Design Engineering :</u></b></p> <ul style="list-style-type: none"> <li>Basic Engineering work for Mass balance, waste water balance, sizing calculation of various equipment's like, limestone crushing system, wet ball mill Slurry pumps, Slurry RC pump, Process water pump, Mist Eliminator wash pump, drain pumps, oxidation blower and tanks is completed.</li> </ul>



	<ul style="list-style-type: none"> <li>Layout of process building, P &amp; ID of various FGD systems, is under review.</li> </ul> <p><b><u>Vendor Approval :</u></b></p> <ul style="list-style-type: none"> <li>Vendor approval is given for supply of RC pump, Booster Fan, Vacuum Belt filter, Oxidation blower, damper, limestone handling system, nozzle, Mist eliminator, chimney works.</li> <li>Proposal of vendor approval for elevator, expansion bellow etc is under review.</li> </ul> <p><b><u>Equipment/Material supply:</u></b> Order for Bunk house is placed by DTEI.</p> <p><b><u>Civil Works :</u></b></p> <ul style="list-style-type: none"> <li>Site levelling based on Soil Investigation report is completed.</li> <li>PCC work for site office and store is completed.</li> <li>Vendor for Chimney work had mobilised the site before lockdown But, work stopped due to lockdown.</li> <li>At present site work is held up due to Covid-19. However Design &amp; Engineering of various equipments and systems is under process.</li> </ul>
<p><b><u>Directive 2: Separate Accounts for RE Assets</u></b> GSECL is directed to submit separate accounting statement for RE assets at its various locations during the submission of yearly true-up Petition.</p> <p><b><u>Compliance:</u></b> GSECL submitted the separate accounting formats for RE assets for various locations.</p> <p><b><u>Commission Comments:</u></b> The Commission noted the submission.</p>	<p><b><u>COMPLAINCE:</u></b> Noted by Hon'ble Commission.</p>
<p><b><u>Directive 3: Study for Technical Minimum Operations of plants at 55% of MCR</u></b> To achieve the National RE capacity addition target of 175 GW by the year 2022, the existing coal based base load capacity has to be used as balancing power and anticipated to be more and more cycled with increase in variable RE generation in the State Grid. To absorb the highly intermittent and variable generation from RE sources, more flexible and cyclic operations with fast Ramp Up and Ramp Down from base load plants is need of the time. In order to meet this, GSECL is directed to submit a comprehensive report covering the present status of Technical minimum level operation of each thermal plant with Ramp Up and Ramp Down capability and action plan for implementing 55% Technical</p>	<p><b><u>COMPLAINCE:</u></b> The 55% Capability test @1% and 3% ramp up/down was carried out in UTPS#6 during March'20 with the help of the OEM (BHEL). The draft report is under scrutiny. According to the recommendation, GSECL will plan further action accordingly.</p> <p>GSECL has taken 55% min load level run in 2 units of 210 MW at WTPS.</p> <p>GSECL has planned turbine retrofitting of UTPS # 3 &amp; # 5 for 55% min load and achieving 3% ramp rate along with reduction in SHR.</p>



<p>minimum criteria for all such efficient plants. The report may include cost of implementation including timeline and impact on machine's life and efficiency. This report should be submitted within 3 months to the Commission.</p> <p><b><u>Compliance:</u></b>          One 200/210 MW (Ukai TPS Unit 4) &amp; one 500 MW Unit (Ukai TPS Unit 6) of GSECL are identified as the pilot coal flexing projects with USAID, to study &amp; identify the capability of Units for low load operation. The study will identify the ramping capability, safe technical minimum load for sustained operation, retrofit/modifications required to achieve 3% ramp rate with 55% load. The estimated expenditure for the same will also be shared by USAID in the Report. The existing ramping capability of GSECL Coal based generating units is 1% - 1.5% MW per min.</p> <p>The previous operational database of units as required by USAID has been shared with the concerned. The USAID Team has visited Ukai TPS during August 2018 in this regard &amp; they have submitted the draft report.</p> <p>As suggested by USAID team, the low load trial run (60%) with 1% ramp rate has been conducted by Ukai TPS during June 2019 &amp; relevant database is submitted to the USAID team for comments &amp; observations.</p> <p>However, USAID has suggested to undertake 55% low load trial run of Ukai TPS 1 x 500 MW Unit with 1% ramp rate, with technical assistance of M/s BHEL being the OEM/designer of the unit. The tentative schedule for the trial is planned during Sept 19 – Oct 19 in consultation with SLDC. Based on the trial at Ukai TPS, the similar trial will be carried out in all the coal-based power stations &amp; unit wise strategy for achieving 55 % load with 3% ramping capability shall be made in due course of time.</p> <p><b><u>Commission Comments:</u></b>          The Commission noted the submission of the Petitioner. However, GSECL is further directed to update the Commission for the progress made to achieve 55% technical minimum operation and 3% ramp rate for other generating plants.</p>	
<p><b>8.4 Fresh Directives</b></p>	
<p><b><u>Directive 1: Action Plan for Capacity Retirement/Addition/Utilisation</u></b>          GSECL is directed to submit its Action Plan for next 10 (ten) years in next Tariff Petition for Control</p>	<p><b><u>COMPLAINCE:</u></b>  <b>(1) <u>Plan for retirement of existing old units:</u></b></p>

Period commencing from April 1, 2021. The Action Plan shall include the plan for retirement of existing Old Stations, plan for capacity addition of Conventional Generating Stations, plan for capacity addition of Renewable Energy Plants, plan for optimum utilisation of existing Generating Stations and plan for achieving operational and economic efficiency.

**(A) Coal Based** – It would be as per recommendation of the committee constituted by CEA.

**(B) Gas Based –**

- (1) Dhuvaran CAPP-I - 27.01.2024
- (2) Dhuvaran CAPP-II - 31.10.2027
- (3) Utran Extension - 07.11.2029

**(2) Plan for Capacity Addition :**

**(a) Conventional power plant:**

**800 MW Coal based supercritical Unit no 7 at Ukai TPS:**

GSECL has applied for Environment clearance to MoEF & CC. Terms of Reference (TOR) received. Based on TOR, EIA report is already submitted to MoEF. Preparation of Compliance to Observations of Expert Appraisal Committee in EIA report is under progress.

**(b) Renewable Energy**

1. Implementation of 75 MW Solar PV Project Phase-II at Dhuvaran is under progress.

**Schedule COD of the project is 12.02.2021**

2. 100 MW Solar PV Project Phase-I at Raghnesda is under progress

**Schedule COD of the project is 17.02.2021**

3. 100 MW Solar PV Project Phase-II at Raghnesda is under progress

**Schedule COD of the project is 26.07.2021**

4. 2500 MW Solar PV Project on Government around GETCO S/S

(A) Lol for (40/35/35/25/30/20) Total 185 MW EPC at 06 (six) locations is awarded.

**Scheduled COD of Projects is**

**31.05.2021 for >20 MW Capacity projects**

**30.04.2021 for 20 MW Capacity project**

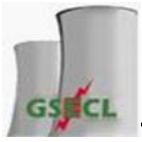
(B) Pre-feasibility for potential CUF and preparation of tender for 500 MW is under progress for 18 locations where Allotment of Govt. land is received.

(C) Acquisition of Land for 2195 MW capacity at various locations (108 nos) is under progress.

**(3) Plan for optimum utilisation of existing Generating stations and plan for achieving operational and economic efficiency:**

Retrofitting of Turbine and Boiler Modification in unit # 3 & 5 of UTPS is planned.

Tender preparation for EPC is under progress.



**Directive 2: Roadmap for Improvement of Performance of Lignite Based Stations**

The Commission directs GSECL to submit roadmap for improvement the performance of Lignite based power stations, in economical manner.

**COMPLAINEE:**

Preparation of Roadmap is under discussion.

**ANNEXURE****Report on Energy efficiency improvement through Up gradation of C&I system in Unit 1 to 6 at Wanakbori TPS.**

M/s ABB has carried out supply and works of Unified Distributed Digital Control Monitoring & Information System (DDCMIS) including regulating controls, interlocks, sequential controls, operator interface units, interconnection cabling and requisite terminations comprising of the following system in Unit 1 to 6.

1. Steam Generator Controls comprising of: Electronic System cum Marshalling Cabinets, Relay cabinets catering to Furnace Safeguard Supervisory System (FSSS) including control and protection of coal Mills along with associated drives, Fuel oil system, Coal and Oil Elevations Interlocks and Protection, Master Fuel Trip (MFT) etc. MFT shall be in Dual modular redundant configuration. M/s ABB has also carried out supply and works of Secondary Air Damper Controls (SADC), Soot Blower Controls (SBC) with Optimization concept, Auxiliary Pressure Reducing & De-superheating (APRDS) controls, Fuel oil pumping and Heating (FOPH) Controls system.
2. M/s ABB has carried out work of Interfacing of Existing flame scanner system to DDCMIS, Interfacing of Existing gravimetric feeder to DDCMIS (in #1, 2 & 3) and Interfacing of Existing Opacity Meter to DDCMIS. In Unit #4, 5 & 6 replacement of Gravimetric feeders (Make: Stock, USA) with microprocessor based control - STOCK, USA (OEM) 196 NT MPC and VFD make Lenz, ac pack, model MC 1000 Series for 24" Gravimetric Feeder carried out.
3. Turbine Controls comprising of Electronic System cum marshalling cabinets Relay Cabinets Catering to speed, load & pressure control (interfacing with Speeder Gear/ CVSM), Gland Steam Pressure Controls (GSPC), HP Bypass (HPBP) Controls & LP Bypass (LPBP), Turbine Protection (TP) Sequential control, Interlock & Protection for all binary drives of turbine auxiliaries (oil pumps, JOPs, EOP, Drain valves, CE pumps etc., (In Unit #4, 5 & 6 ATT & Relays for ATT, SGC – Turbine Logic & Warm Up Controller, SGC – Oil Supply Logic, FP & Oil Temperature Controller, SGC -Condensate & Evacuation Logic, interfacing with existing LSR/LMU & Auto Synchronizer).
4. Balance of Plant Controls (Station C&I) & Electrical system comprising of Electronic System cum marshalling cabinets Relay Cabinets catering to Closed Loop Control System (CLCS) which includes Co-coordinated Master Controls (CMC) with combustion optimization concept. Master Pressure Control etc. Sequential control, Interlock & Protection for all binary drives including ID, FD & PA Fans system, Boiler feed pumps, APH, CW/ACW pumps, ACW Booster pumps, HP/LP Heater, Deaerator over flow controls etc.
5. M/s ABB has supplied and erected Integral Sequence of Events (SOE) recording System and Standalone annunciation system with inputs from field/ binary outputs through DDCMIS and generator relay panel.
6. M/s ABB has carried out supply and work of Electronic System cum marshalling Cabinets catering to Electrical Control System (other than motor feeder) of the main plant. The following controls shall be envisaged in this system. Dead bus closing of all Breakers, EHV Breaker, Unit & Station Switchboards (requiring synchronizing), Dead Bus closing of 415V Breakers of main plant & ESP/ PCC & MCC me /C, B/Closing of 6.6 KV Breakers of outgoing transformer feeders & outgoing feeders to other Switchboards 6.6 Unit & Station Switchboards (Non-synchronizing)



,Closing of all 415V Breakers of main plant & ESP (PCC C/G) / Non synchronizing, Tripping of GT EHV Breaker, 6.6 KV Breakers of unit & Station Switchboards, 415V Breakers of main plant & ESP (All PCC Breakers MCC I/C, B/C).,Trip Selection for planned changeover for 6.6 KV Unit & Station Switchboards & 415V switchgear of main plant & ESP,Exciter Field Breaker Close / Trip, Excitation System Channel Selection, Excitation Lower /Raise Control, Excitation ON/OFF.,UT, OLTC Lower / Raise control, Station Transformer OLTC Lower / Raise control.

(7) M/s ABB has supplied, erected and commissioned Man machine Interface & Plant Information System (MMIPIS) Catering to SG/TG/BOP C&I and Electrical System's Operator Stations ,Engineering Stations, Historian , Performance Calculation, HART Management Station,

SWAS station (at local)with heavy duty printers, Ethernet Switches ,TCP/IP Cable Supt Cat5, Fiber Optic Cables ,system softer special software & Large video Screen.

(8) Instage-1,Unit 1,2 & 3 M/s ABB has supplied, erected and commissioned New Turbine supervisory and Vibration Monitoring System for Steam Turbine with sensors, cables Including special cables etc. for Axial Shift, Differential Expansion of HPC/IPC/LPC, Overall Expansion of HPC /IPC, Turbine Bearing Vibration (H) & (V), Turbine Speed Measurement, Eccentricity, Speeder Gear Position & Control valve Servomotor Position. In stage-II,Unit #4, 5 & 6 The Existing TSI is retained and necessary modification for interfacing was carried out with DDCMIS.

(9) M/s ABB has supplied, erected and commissioned Flue Gas Analyzers for Oxygen (O<sub>2</sub>) & on line Hydrogen Analyzers.

(10) M/s ABB has supplied, Erected and commissioned Uninterrupted Power Supply System 240 volts AC, 1ph. 50 Hz catering to loads of MMI, Instruments on Unit Control Panel, SWAS and Gas Analyzers with battery backup and 24 V DC system with, 2 X 100 % battery chargers. 2 X 100 % battery, DCDBs etc. catering to loads of DDCMIS panels.

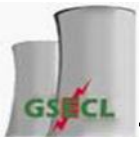
(11) M/s ABB has supplied, erected and commissioned UCP & ECB with hard wired backup consoles for safe shutdown with various electrical meters .Also M/s ABB has supplied, erected and commissioned Transducer Panels Interposing relay panels and separate electronic earth Pit for C&I system. Existing drum level Hydra step was erected and commissioned in UCP.

(12) M/s ABB has supplied, erected and commissioned various field Instruments like; Smart Transmitters (Pressure flow & level), Pressure Switches, Differential Pressure Switches , Level Switches ,Limit switches, Solenoid valves etc. All thermocouples & RTDs were replaced along with their thermo wells. Generator winding temperature measurements thru' RTD & motor winding RTD were hooked to DDCMIS for monitoring purpose. M/s ABB has supplied, erected and commissioned Flow nozzles for Feed Water Flow & Feed Water Flow to BFP Suction and orifice for Condensate Flow /condensate at Dearator inlet .

(13) M/s ABB has supplied, erected and commissioned Various control Valves, Pneumatic actuators, E/P Converter, PFT, AFR, Positioner etc. for various drives and Hydra motor valves of all corners.

(14) M/s ABB has supplied, laid and commissioned various power cables, Fiber Optic/Coaxial/PREFAB cables, Control / Instrumentation cables with Cable trays and accessories.

### **Performance Improvement**



1. Measurement is very accurate, correct and reliable
2. Due to DDCMIS system Troubleshooting is very easy.
3. More Data is available for analysis.
4. Modification of logics & interlocks are very easy.
5. Information regarding the process is presented to the user in various formats (like log Reports, trend groups, sequence of events recording, etc.)
6. DDCMIC system is found working satisfactorily in all the six units and all control loops are working on auto in unit 1 to 6 including CMC & RGMO (#4, 5 &6).



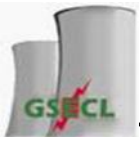


<b>ANNEXURE-II</b>				
<b>Monthly Coal Stock Position(MT) details of 1st to 4th Quarter of 2019-20</b>				
	<b>TPS</b>	<b>Indigenous</b>	<b>Imported</b>	<b>TOTAL</b>
<b>April 19 (As on 30.04.19)</b>	<b>UTPS</b>	271216	6497	277713
	<b>GTPS</b>	363738	22778	386516
	<b>WTPS</b>	688461	21754	710215
	<b>STPS</b>	999	86685	87684
	<b>GSECL</b>	<b>1324414</b>	<b>137714</b>	<b>1462129</b>
<b>May 19 (As on 31.05.19)</b>	<b>UTPS</b>	216980	10537	227516
	<b>GTPS</b>	338363	22778	361141
	<b>WTPS</b>	766682	21819	788501
	<b>STPS</b>	999	69808	70807
	<b>GSECL</b>	<b>1323023</b>	<b>124942</b>	<b>1447965</b>
<b>June 19 (As on 30.06.19)</b>	<b>UTPS</b>	172483	1952	174434
	<b>GTPS</b>	340615	19448	360063
	<b>WTPS</b>	829344	12790	842135
	<b>STPS</b>	0	74985	74985
	<b>GSECL</b>	<b>1342442</b>	<b>109175</b>	<b>1451617</b>
<b>July 19 (As on 31.07.19)</b>	<b>UTPS</b>	344154	0	344154
	<b>GTPS</b>	264887	12469	277356
	<b>WTPS</b>	578018	0	578018
	<b>STPS</b>	1200	72965	74165
	<b>GSECL</b>	<b>1188259</b>	<b>85433</b>	<b>1273692</b>
<b>August 19 (As on 31.08.19)</b>	<b>UTPS</b>	298254	0	298254
	<b>GTPS</b>	209569	8384	217953
	<b>WTPS</b>	520388	0	520388
	<b>STPS</b>	1200	50480	51681
	<b>GSECL</b>	<b>1029411</b>	<b>58864</b>	<b>1088275</b>
<b>September 19 (As on 30.09.19)</b>	<b>UTPS</b>	226119	0	226118
	<b>GTPS</b>	228838	8384	237222
	<b>WTPS</b>	576976	0	576976
	<b>STPS</b>	513	60601	61114
	<b>GSECL</b>	<b>1032445</b>	<b>68985</b>	<b>1101430</b>
<b>October 19 (As on 31.10.19)</b>	<b>UTPS</b>	168445	0	168445
	<b>GTPS</b>	264437	7923	272360
	<b>WTPS</b>	366878	0	366878
	<b>STPS</b>	288	96120	96408
	<b>GSECL</b>	<b>800048</b>	<b>104043</b>	<b>904091</b>
<b>November 19 (As on 30.11.19)</b>	<b>UTPS</b>	310604	0	310604
	<b>GTPS</b>	263345	0	263345
	<b>WTPS</b>	514101	0	514101
	<b>STPS</b>	288	80145	80433
	<b>GSECL</b>	<b>1088338</b>	<b>80145</b>	<b>1168483</b>
<b>December 19 (As on 31.12.19)</b>	<b>UTPS</b>	357011	0	357011
	<b>GTPS</b>	251632	0	251632
	<b>WTPS</b>	656734	0	656734
	<b>STPS</b>	0	95253	95253
	<b>GSECL</b>	<b>1265377</b>	<b>95253</b>	<b>1360630</b>
<b>January 20 (As on 31.01.20)</b>	<b>UTPS</b>	389621	0	389621
	<b>GTPS</b>	130898	0	130898
	<b>WTPS</b>	762727	0	762727
	<b>STPS</b>	0	50842	50842
	<b>GSECL</b>	<b>1283246</b>	<b>50841</b>	<b>1334087</b>
<b>February 20 (As on 29.02.20)</b>	<b>UTPS</b>	416319	0	416319
	<b>GTPS</b>	129572	0	129572
	<b>WTPS</b>	766224	0	766224
	<b>STPS</b>	0	54066	54066
	<b>GSECL</b>	<b>1312115</b>	<b>54066</b>	<b>1366180</b>
<b>March 20 (As on 31.03.20)</b>	<b>UTPS</b>	495811	0	495811
	<b>GTPS</b>	224418	0	224418
	<b>WTPS</b>	916083	0	916083
	<b>STPS</b>	0	78002	78002
	<b>GSECL</b>	<b>1636312</b>	<b>78002</b>	<b>1714314</b>



ANNEXURE-I																							
PERFORMANCE PARAMETER FOR THE MONTH OF APRIL-MAY-JUNE-2020																							
Sr. No.	Power Station	PAF (%)			PLF (%)			SHR as Fired (Kcal/Kwh)			Auxi. Consumption (%)			SFC (Kg./Kwh)			Actual Gross Generation (Mus)			Net Generation (Mus)			
		April	May	June	April	May	June	April	May	June	April	May	June	April	May	June	April	May	June	April	May	June	
1	Ukai (3-5)	96.00%	98.39%	98.54%	22.78%	27.54%	24.83%	2354	2346	2347	10.69%	9.61%	10.55%	1.44	0.15	1.10	100.06	125.00	109.04	89.36	112.99	97.53	
2	Ukai Extn. 6	97.87%	71.49%	85.97%	68.97%	61.48%	41.74%	2356	2367	2352	6.26%	6.83%	7.10%	1.17	0.40	1.19	248.29	228.71	150.25	232.75	213.09	139.58	
3	Gandhinagar (3-4)	99.42%	99.42%	99.42%	0.00%	0.00%	0.00%	0	0	0	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	-0.73	-0.73	-1.25	
4	Gandhinagar 5	100.00%	101.03%	101.03%	0.00%	0.00%	0.00%	0	0	0	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	-1.46	-1.56	-0.72	
5	Wanakbori 1-6	101.59%	101.59%	101.59%	0.00%	0.00%	0.00%	0	0	0	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	-2.57	-2.60	-2.51	
6	Wanakbori 7	100.00%	101.11%	101.11%	0.00%	0.00%	0.00%	0	0	0	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	-0.55	-0.57	-0.53	
7	Wanakbori 8	100.00%	100.04%	98.58%	38.62%	16.86%	12.58%	2118	2156	2147	6.10%	8.79%	11.16%	2.79	4.42	4.83	222.44	100.33	72.44	208.87	91.51	64.36	
8	Sikka Extn. (3-4)	100.00%	101.10%	80.04%	0.00%	0.00%	63.42%	0	0	2449	0.00%	0.00%	9.57%	0.00	0.00	1.80	0.00	0.00	228.33	-1.65	-1.20	206.47	
9	KLTPS 3	86.46%	99.57%	75.75%	84.19%	95.96%	73.86%	3203	3206	3246	12.54%	12.22%	12.09%	2.94	0.99	6.21	45.46	53.55	39.89	39.76	47.00	35.06	
10	KLTPS 4	64.40%	60.84%	51.76%	69.77%	65.20%	55.55%	3116	3127	3153	19.83%	20.31%	21.94%	1.89	3.15	1.60	37.68	36.38	30.00	30.20	29.00	23.41	
11	BLTPS 1&2	22.27%	40.68%	28.11%	25.67%	44.97%	30.73%	3319	3158	3168	22.41%	19.45%	21.47%	3.37	0.26	2.99	92.42	167.29	110.64	71.70	134.76	86.88	
12	Dhuvaran CCGP 1	84.68%	83.82%	65.88%	69.03%	73.79%	58.82%	2070	2060	2014	4.61%	4.61%	4.75%	-	-	-	52.99	58.53	45.15	50.55	55.83	43.01	
13	Dhuvaran CCGP 2	77.53%	79.78%	73.04%	36.76%	38.89%	58.62%	2094	2099	2091	5.45%	5.36%	4.49%	-	-	-	29.77	32.54	47.46	28.14	30.80	45.32	
14	Dhuvaran CCGP 3	85.19%	57.23%	0.00%	60.01%	32.37%	0.00%	1799	1818	0	2.43%	3.09%	0.00%	-	-	-	162.50	90.59	0.00	158.55	87.79	-0.54	
15	Utran Extension	96.50%	80.61%	99.65%	69.18%	65.93%	85.63%	1819	1755	1706	2.35%	2.32%	2.11%	-	-	-	186.56	183.73	230.93	182.19	179.46	226.07	
16	Ukai Hydro	73.77%	73.60%	73.33%	28.29%	24.54%	12.50%	-	-	-	0.73%	0.76%	0.95%	-	-	-	62.12	55.69	27.45	61.67	55.27	27.19	
17	Kadana Hydro	91.52%	94.82%	95.44%	6.55%	3.44%	1.49%	-	-	-	0.82%	0.89%	0.93%	-	-	-	11.41	6.19	2.60	11.32	6.13	2.58	

ANNEXURE-II				
Monthly Coal Stock Position(MT) details of 1st Quarter of 2020-21				
	TPS	Indigenous	Imported	TOTAL
April 20 (As on 30.04.20)	UTPS	302920	0	302920
	GTPS	213421	0	213421
	WTPS	807707	0	807707
	STPS	0	94690	94690
	<b>GSECL</b>	<b>1324048</b>	<b>94690</b>	<b>1418738</b>
May 20 (As on 31.05.20)	UTPS	171232	0	171232
	GTPS	213421	0	213421
	WTPS	755008	0	755009
	STPS	0	94690	94690
	<b>GSECL</b>	<b>1139662</b>	<b>94690</b>	<b>1234351</b>
June 20 (As on 30.06.20)	UTPS	211702	0	211702
	GTPS	213551	0	213551
	WTPS	716829	0	716829
	STPS	0	74387	74387
	<b>GSECL</b>	<b>1142082</b>	<b>74387</b>	<b>1216469</b>



## SECTION 7. PRAYER

GSECL respectfully prays to the Hon'ble Commission;

- 7.1.1. To admit this petition for True Up of FY 2019-20.
- 7.1.2. To approve the gains/ losses for the True Up for FY 2019-20 and allow sharing of such gains/ losses as prescribed in the MYT Regulations, 2016.
- 7.1.3. To approve unabsorbed depreciation of Ukai unit 1 & 2 as prayed.
- 7.1.4. To allow recovery of revenue gap/ pass on surplus of FY 2019-20 as part of Tariff determination for FY 2021-22.
- 7.1.5. ARR for FY 2021-22 to FY 2025-26 and Tariff Proposal for FY 2021-22 will be filed as an addendum to this Petition once MYT Regulations, 2021 notified or as directed by the Hon'ble Commission.
- 7.1.6. Allow recovery of revenue for all stations of GSECL including BLTPS as per existing tariff of FY 2020-21 as approved in Tariff Order Case No. 1836 of 2019 dated 26<sup>th</sup> March, 2020 till Tariff Order for FY 2021-22 is approved.
- 7.1.7. To grant any other relief as the Hon'ble Commission may consider appropriate.
- 7.1.8. The Petitioner craves leave of the Hon'ble Commission to allow further submissions, addition and alteration to this Petition as may be necessary from time to time.
- 7.1.9. Pass any other order as the Hon'ble Commission may deem fit and appropriate under the circumstances of the case and in the interest of justice.

Signature of the Petitioner

GUJARAT STATE ELECTRICITY CORPORATION LIMITED

Dated: 25.11.2020

Place: Vadodara

**Declaration:**

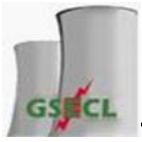
Declaration that the subject matter of the petition has not been raised by the petitioner before any other competent forum, and that no other competent forum is currently seized of the matter or has passed any orders in relation thereto.

Place: 25.11.2020

Date: Vadodara

Signature of the Petitioner

GUJARAT STATE ELECTRICITY CORPORATION LIMITED

**BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION  
GANDHINAGAR**

Filing No. \_\_\_\_\_

Case No. \_\_\_\_\_

<b>IN THE MATTER OF</b>	Filing of Petition for True Up of FY 2019-20 under GERC MYT Regulations, 2016 and Section 62 of the Electricity Act, 2003
<b>AND</b>	
<b>IN THE MATTER OF</b>	Gujarat State Electricity Corporation Limited, Vidyut Bhavan, Race Course, Vadodara 390007 Phone No. :0265 6612003; Fax: 0265 2344537 E-mail: gmf.gsecl@gebmail.com <b>Petitioner</b>
<b>AND</b>	
<b>IN THE MATTER OF</b>	Gujarat Urja Vikas Nigam Limited, Sardar Patel Vidyut Bhavan, Race Course, Vadodara 390007 Phone No. 0265 6613221; Fax: 0265 2337918; E-mail: <a href="mailto:coacom@gebmail.com">coacom@gebmail.com</a> <b>Respondent</b>

**Affidavit verifying the Application**

I, Rajesh Mithalal Bhadang, son of Shri Mithalal Bhadang, aged about 54 years, residing at D-9, Ashirwad Duplex, Near Nisarg Complex, Diwalipura, Vadodara do solemnly affirm and say as follows:

I am General Manager (Finance & Accounts) of the Gujarat State Electricity Corporation Limited, the Petitioner in the above matter and am duly authorized by the said Petitioner to make this affidavit.

The Statements made hereinabove are true to my knowledge and belief, which I believe them to be true.

Solemnly affirmed at Vadodara on this 25<sup>th</sup> day of November 2020, that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

(R.M.Bhadang)  
General Manager (F & A)  
GSECL-Vadodara

Place: Vadodara.  
Dated: 25.11.2020

**Section 8. Annexure – I: Tariff Filing Formats****INDEX**

<b>Sr. No</b>	<b>Power Station</b>	<b>Page No.</b>
1.	Ukai (3-5)	57-73
2.	Gandhinagar (3-4)	74-90
3.	Gandhinagar 5*	91-107
4.	Wanakbori 1-6 TPS	108-124
5.	Wanakbori 7*	125-141
6.	Sikka Extension (3-4)*	142-158
7.	KLTPS 1-3	159-175
8.	KLTPS 4	176-192
9.	BLTPS*	193-209
10.	Dhuvaran (Gas 1)*	210-226
11.	Dhuvaran (Gas 2)	227-243
12.	Dhuvaran CCPP (Gas 3)*	244-260
13.	Utran Extension*	261-277
14.	Ukai 6*	278-294
15.	Wanakbori 8*	295-311
16.	Ukai Hydro	312-328
17.	Kadana Hydro	329-345

**Note:** The forms which are not applicable are excluded