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## Abbreviations

1.	GETCO	Gujarat Energy Transmission Corporation Limited
2.	MW	Mega Watt
3.	ARR	Aggregate Revenue Requirement
4.	MYT	Multi Year Tariff
5.	FY	Financial Year
6.	GSECL	Gujarat State Electricity Corporation Limited
7.	GEB	Gujarat Electricity Board
8.	GoG	Government of Gujarat
9.	Control Period	FY 2011-12 to 2015-16
10.	GERC	Gujarat Electricity Regulatory Commission
11.	CERC	Central Electricity Regulatory Commission
12.	O&M	Operation & Maintenance
13.	GUVNL	Gujarat Urja Vikas Nigam Limited
14.	KV	Kilo Volt
15.	MVA	Mega Volt Ampere
16.	S/S	Sub Station
17.	Ckt-Km	Circuit Kilometer
18.	MGVCL	Madhya Gujarat Vij Company Limited
19.	PGVCL	Pashchim Gujarat Vij Company Limited
20.	UGVCL	Uttar Gujarat Vij Company Limited
21.	DGVCL	Dakshin Gujarat Vij Company Limited
22.	GSEG	Gujarat State Energy Generation Limited
23.	TPAECL	Torrent Power Ahmedabad Electricity Company Ltd.
24.	TPSECL	Torrent Power Surat Electricity Company Ltd.
25.	KPTL	Kandla Port Trust Ltd.
26.	ULD & C	Unified Load Dispatch & Control
27.	WRPC	Western Region Power Committee
28.	WRLDC	Western Region Load Dispatch Centre
29.	TPL	Torrent Power Ltd.
30.	SCADA	Supervisory Control and Data Acquisition System.
31.	SLDC	State Load Dispatch Centre
32.	Sub-LDC	Sub Load Dispatch Centre established under ULD&C scheme
33.	Px	Power Exchange specified by CERC
34.	CPP	Captive Power Plant
35.	PPA	Power Purchase Agreement
36.	STOA	Short Term Open Access
37.	LTOA	Long Term Open Access
38.	OA	Open Access ( under STOA and/or LTOA)
39.	CAPEX	Capital Expenditure
40.	REA	Regional Energy Account issued by WRPC
41.	SEA	State Energy Account issued by SLDC
42.	UI	Unscheduled Interchange
43.	WAM	Wide Area Measurement System
44.	GOI	Government of India
45.	CEA	Central Electricity Authority

## **Chapter 1 : Introduction**

### **1.1 Preamble**

This chapter provides a background accompanying with the SLDC functions and determination of SLDC charges & fees consequent upon filing this petition.

### **1.2 Introduction and Background**

1.2.1 In pursuant to the Gujarat Electricity Industry (Reorganization and Regulation) Act 2003 (herein after called as “Act”) in May 2003 for the reorganization of the entire power sector in the State of Gujarat notified by Government of Gujarat (hereinafter referred to as GoG), erstwhile GEB was divided into seven different entities wherein all its transmission related assets ( including Load Dispatch Centre) were transferred to newly created entity called as Gujarat Energy Transmission Corporation Ltd, herein referred as ‘GETCO’.

1.2.2 The Electricity Act, 2003 provides that the State Government shall have to establish a State Load Dispatch Centre (SLDC). Subsection (2) of the Section 31 provides that the said SLDC shall be operated by a Government company/authority/corporation constituted by or under any State Act and that until such company/authority/corporation is notified by the State Government, the State Transmission Utility (STU) shall operate SLDC. The Government of Gujarat has then notified SLDC vide reference GHU-2004-31-GEB-1104-2946-K dated the 29<sup>th</sup> May, 2004 under Section 31 of the Electricity Act, 2003 ( 36 of 2003) that the Load Dispatch Centre (LDC) situated in Jambuva , Dist. Vadodara as the State Load Dispatch Centre, which shall be operated by Gujarat Energy Transmission Corporation Ltd., Vadodara for the purpose of exercising the powers and discharging the functions under the said Act w. e. f. 1st June, 2004 for discharging SLDC functions of electricity in the Gujarat State. Subsequently, SLDC is shifted to Gotri from Jambuva w.e.f. 6<sup>th</sup> July’2005. Accordingly, Gujarat Energy Transmission Corporation Ltd. is presently operating SLDC business in the State.

1.2.3 SLDC-Gujarat has participated into Unified Load Dispatch and Communication Scheme (herein after called as “ULD&C) scheme approved by Central Electricity Authority (CEA)

for western region. Under this scheme, SLDC Jambuva has been shifted to SLDC Gotri from 6<sup>th</sup> July'2005 and commenced operation of three Sub-SLDCs at Gandhinagar, Jambuva and Jetpur. All those Sub-SLDCs are equipped with sufficient manpower and operated under direct control of SLDC-Gotri.

- 1.2.4 Section 32(3) of the Electricity Act, 2003 provides for levy and collection of such fees and charges from the generating companies and licensees engaged in the intra-state transmission of electricity as may be specified by the State Commission. Subsequently after issuance of Indian Electricity Act'2003, Central Government through its Order 795(E) dated 8th June 2005 has notified "The Electricity (Removal of Difficulty) Sixth Order, 2005" wherein, it has clarified that SLDC fees and charges may be levied from licensees using intra State transmission system as specified state commission. It is therefore, appropriate to recover the SLDC fees and charges as specified by Hon'ble commission vide "Levy and collection of fees and charges regulation 2005"
- 1.2.5 In exercise of the powers conferred under Section 181 of the Electricity Act, 2003 (Act 36 of 2003), and all powers enabling it in that behalf, the Gujarat Electricity Regulatory Commission has issued a regulation for determination of SLDC fees and charges called "Levy And Collection of Fees and Charges by SLDC Regulations, 2005" on dated 30<sup>th</sup> March'2005. Accordingly, SLDC-Gujarat has to submit a petition before GERC with the details of estimated expenditure after separation of accounts. Since the commercial operation of ULD&C scheme was not started and expenditure under ULD&C scheme under State portion was to be validated, the separation of accounts and assets was to remain with GETCO's account up to 31<sup>st</sup> March'2009. Hence, SLDC fees and charges component was factored within the transmission tariff. As such, all long term open access users within State are using only GETCO network who are also availing SLDC services, recovery of SLDC charges and fees through the transmission tariff is acceptable as there is no commercial implication on long term open access users, because intra state entities availing SLDC services and GETCO services are same. Therefore tariff proposal of GETCO covers annual revenue requirement of SLDC for the period of 2006-07 to 2008-09.
- 1.2.6 Under regulation issued by Hon'ble commission (Regulation 5 of 2005), SLDC-Gujarat has to file application for approval of aggregate revenue requirement and determination of fees and charges as per regulation issued by GERC called as "Levy and Collection of Fees and Charges by SLDC Regulations, 2005".

### 1.3 Directives of Hon'ble Commission

1.3.1 In line with recommendation of Girish Pradhan committee endorsed by Ministry of Power, Government of India regarding separation and ring fencing of SLDCs, Hon'ble GERC had issued directives for filing separate annual revenue requirement for SLDC from 2009-10. Accordingly, SLDC/GETCO has taken various initiatives; identify separate assets and capital expenditure of SLDC-Gujarat.

1.3.2 In pursuant with the clause 4 of "levy and collection of fees and charges by State load dispatch centre Regulation 2005" dated March 30, 2005, SLDC-Gujarat has to file an application / petition with the Commission for annual revenue requirement and for the determination of the SLDC fees and Charges together with the details of estimated expenses for the ensuing year.

1.3.3 Further, in pursuant with the clause 4(vi) & 4(viii) of Regulation on levy and collection of fees and charges by SLDC Regulation 2005, SLDC-Gujarat has to submit proposal for capital expenditure for approval and prudence checks by commission. SLDC-Gujarat has to further submit capital investment program for ensuing financial year with the detail of estimates. Clause 4(vi) and 4(viii) of above said regulation are reproduced as under :

*"4(vi) Any proposal for capital expenditure shall be submitted to the Commission. The Commission will duly approve the proposal after examining the need and applying prudence checks.*

*4(viii) The details of capital investment programme for the ensuing financial year shall be furnished along with the details of estimated expenses."*

1.3.4 In compliance with the GERC Regulations and Guidelines, GETCO, the State Transmission Utility & Transmission licensee, managing the SLDC business as per order of Government of Gujarat, herein submits the Petition for True-up for the Financial Year 2010-11 and Tariff Determination for the Financial Year 2012-13 along with proposed capital investment program. The capital expenditure plan is revised for FY 2012-13 without considering any financial impact on the tariff determination for the Financial Year 2012-13.

#### 1.4 Recommendations of Girish Pradhan Committee Report

Ministry of Power, GOI has endorsed report of Girish Pradhan committee and had issued comprehensive action plan for implementation of recommendation made in the report, wherein it was mentioned that SLDC has to separate annual revenue requirement. This report is also fully endorsed by State Secretary and Regulatory commission. As per this report, SLDC-Gujarat has to submit three year CAPEX plan to Hon'ble commission for approval.

The recommendations of Girish Pradhan Committee report relevant with filing of ARR and CAPEX plan are reproduced as under:

##### Recommendation 1

*The committee recommends that the LDCs should be ring-fenced suitably to ensure their functional autonomy by taking the following steps:*

- a) *Creating a separate representative board structure for governance of LDCs on the lines of wholly owned subsidiary being created for the independent System operation of RLDCs and NLDC.*
- b) *The financial accounts should be separated for all LDCs by 31<sup>st</sup> March 2009 with the appropriate Electricity Regulatory Commissions (ERC) specifying the fees and charges payable.*
- c) *Capital Expenditure (CAPEX) plans for modernization of all LDCs during 2009-12 should be submitted and the approval of the respective Electricity Regulatory Commission (ERC) should be obtained by 31st March 2009.*
- d) *A rolling 5-year CAPEX plans should be prepared by each LDC and got approved by the respective ERCs to take care of the system expansion, associated real-time data requirements as well as technological innovations and obsolescence of control centre equipment.*

## Recommendation 2

*For making LDCs financially self-reliant, the revenue stream suggested by committee for ERCs is as under:*

- a) Fees and charges for system operation,*
- b) Tariff for decision support system and IT infrastructure (ULDC tariff)*
- c) Operating charges for scheduling, metering and settlement for market layers*

The Action Plan suggested for implementation of above said recommendation 2 contains following:

- 1. Develop the general principles and philosophy for funding LDCs, sharing of expenditure. Identify revenue streams such as Fees and charges, ULDC tariff, Open Access, Consultancy services, other income.*
- 2. Work out the annual revenue requirement and the amounts payable by entities like generating stations, transmission licensees and load serving entities that have to share the LDC expenditure as per the ERC order.*
- 3. File a petition before the Appropriate Commission for segregation of revenue streams for LDCs into fees and charges; ULDC tariff, Open Access, Consultancy charges and other income*

**1.5** Pursuant to the directive of Hon'ble commission for filing annual revenue requirement and as suggested in action plan of Ministry of Power, GOI, SLDC-Gujarat hereby submits True-up for the Financial Year 2010-11 and revised **CAPEX plan for the financial year 2012-13** for determination of SLDC fees and charges for financial year **2012-13**.

1.6 All the figures have been presented in *Rupees in Lacs*, as the figures are smaller in comparison of other entities. SLDC requests Hon'ble Commission to accept the same.

## Chapter 2 : Executive Summary

### 2.1 Preamble

2.1.1 This chapter provides summary of the petition for True-up for the FY 2010-11 and Determination of Tariff for the FY 2012-13.

### 2.2 True - up for the FY 2010-11

2.2.1 SLDC has worked out its Aggregate Revenue Requirement for FY 2010-11 as a part of the True -up for FY 2010-11. SLDC has presented the actual cost components based on audited annual accounts for FY 2010-11. The detailed comparison of various cost components with the values approved by the Hon'ble Commission has been worked out in Chapter 3 of the Petition.

**Table 1 : True-up for the FY 2010-11**

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
Employee Cost	610.00	746.10	819.20	(209.20)
Repairs & Maintenance	71.00	71.00	22.15	48.85
Admin & General Expenses	260.00	260.00	241.14	18.86
Interest on Working Capital	18.55	20.91	27.44	(8.89)
RLDC Fees & Charges	12.00	11.24	9.96	2.04
Charges for ULDC & Other Related Projects	1,019.59	1,019.59	801.21	218.38
WAM Charges	22.00	22.66	-	22.00
Less : Other Income	156.00	162.00	173.02	(17.02)
Add : Prior Period Expenses & Misc. Losses and Write-offs	-	-	15.18	(15.18)
<b>Operating Cost Budget (a)</b>	<b>1,857.14</b>	<b>1,989.49</b>	<b>1,763.26</b>	<b>93.88</b>
Depreciation	63.00	54.84	37.31	25.69
Interest & Finance Charges	85.06	60.02	47.66	37.40
Return on Equity	66.01	42.15	34.76	31.25
<b>Total Fixed Costs</b>	<b>214.07</b>	<b>157.00</b>	<b>119.73</b>	<b>94.34</b>
Less : Expenses Capitalized				-
Add : Provision for Taxation	10.00	8.40	4.47	5.53
<b>Capital Cost Budget (b)</b>	<b>224.07</b>	<b>165.40</b>	<b>124.20</b>	<b>99.87</b>
<b>Total Revenue Budget (a+b)</b>	<b>2,081.21</b>	<b>2,154.89</b>	<b>1,887.47</b>	<b>193.75</b>

## 2.3 Net Gain/Losses for the FY 2010-11

2.3.1 Net Gain / Losses arising out of True-up for the Financial Year 2010-11 has been calculating by bifurcating Gains / Losses for the Operating Cost and Capital Cost separately. As SLDC has different tariff rates and methods for recovering Operating Cost as SLDC Charges and Capital Cost as SLDC Fees

**Table 2 : Net Gain / Losses for the FY 2010-11**

(Rs. In Lacs)

Particulars	FY 2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Employee Cost	-	(209.20)	-	(209.20)
Repairs & Maintenance	48.85	-	48.85	-
Admin & General Expenses	18.86	-	18.86	-
Interest on Working Capital	-	(8.89)	-	(8.89)
RLDC Fees & Charges	-	2.04	-	2.04
Charges for ULDC & Other Related Projects	-	218.38	-	218.38
WAM Charges	-	22.00	-	22.00
Less : Other Income	-	17.02	-	17.02
<b>Operating Cost Variation (a)</b>	<b>67.71</b>	<b>41.34</b>	<b>67.71</b>	<b>41.34</b>
<b>Net Gains / Losses on account of Controllable/ Uncontrollable factor for Operating Cost Budget</b>	<b>67.71</b>	<b>41.34</b>	<b>67.71</b>	<b>41.34</b>
<i>Gain on account of Controllable factor to be passed on to Consumer (1/3 of Total Gain)</i>	22.57	-	22.57	-
<i>Losses on account of Uncontrollable factor to be passed on to Consumer</i>	-	41.34	-	41.34
Depreciation	-	25.69	-	25.69
Interest & Finance Charges	-	37.40	-	37.40
Return on Equity	-	31.25	-	31.25
<b>Total Fixed Costs</b>	-	<b>94.34</b>	-	<b>94.34</b>
Less : Expenses Capitalized	-	-	-	-
Add : Provision for Taxation	-	5.53	-	5.53
<b>Capital Cost Variation (b)</b>	-	<b>99.87</b>	-	<b>99.87</b>
<b>Net Gains / Losses on account of Controllable/ Uncontrollable factor for Capital Cost Budget</b>	-	<b>99.87</b>	-	<b>99.87</b>
<i>Gain on account of Controllable factor to be passed on to Consumer (1/3 of Total Gain)</i>	-	-	-	-
<i>Losses on account of Uncontrollable factor to be passed on to Consumer</i>	-	99.87	-	99.87
<b>Gain on account of Controllable factor to be passed on to Consumer</b>	<b>22.57</b>	-	<b>22.57</b>	-
<b>Losses on account of Uncontrollable factor to be passed on to Consumer</b>	-	<b>141.21</b>	-	<b>141.21</b>

## 2.4 Revenue Gap for the FY 2010-11

2.4.1 After considering Gains / Losses arising out of controllable and uncontrollable factors, Revised Aggregate Revenue Requirement of SLDC for the Financial Year comes out to be Rs. 2,118.72 Lacs. Revenue of SLDC from SLDC Charges and SLDC Fees for the same period comes to Rs. 1,733.28 Lacs hence creating a revenue gap of Rs.385.44 Lacs. SLDC requests Hon'able Commission to approve this Revenue Gap and allow SLDC to recover the same.

**Table 3 : Revenue Gap for the year 2010-11**

*(Rs. In Lacs)*

Sr. No.	Particulars	FY 2010-11
1	Operating Cost Budget Approved by the Commission (a)	<b>1,857.14</b>
	Gain / (Loss) on Account of Uncontrollable Factor to be passed on to the Consumer for Operating Cost (b)	<b>41.34</b>
	Gain / (Loss) on Account of Controllable Factor to be passed on to the Consumer for Operating Cost (c)	<b>22.57</b>
	Revised Operating Cost (a-b-c)	<b>1,793.23</b>
	<b>Less:</b> Actual Revenue from SLDC Charges	<b>1,537.70</b>
	Revenue Gap in Operating Cost	<b>255.53</b>
2	Capital Cost Budget Approved by the Commission (a)	<b>224.07</b>
	Gain / (Loss) on Account of Uncontrollable Factor to be passed on to the Consumer for Capital Cost (b)	<b>99.87</b>
	Gain / (Loss) on Account of Controllable Factor to be passed on to the Consumer for Capital Cost (c)	-
	Revised Capital Cost (a-b-c)	<b>124.20</b>
	<b>Less:</b> Actual Revenue from SLDC Fees	<b>195.58</b>
	Revenue Gap in Capital Cost	<b>(71.38)</b>
3	Total Revenue Gap in the FY 2010-11	<b>184.15</b>

## 2.5 Tariff Determination for the FY 2012-13

**Table 4 : Tariff Determination for the FY 2012-13**

Particulars	2012-13
SLDC Operating Charges Budget (Approved in MYT)	<b>1,848.46</b>
Add : Revenue Gap in Operating Charges Budget in True-up for the FY 2010-11	<b>255.53</b>
Total Operating Charges Budget	<b>2,103.99</b>
Total MW Capacity (Approved in MYT)	<b>18,538.00</b>
Total MW Allocation (Approved in MYT)	<b>23,663.00</b>
<b>Revised SLDC Charges (Rs/MW/Month)</b>	<b>415.47</b>
SLDC Capital Charges Budget (Approved in MYT)	<b>312.87</b>
Add : Revenue Gap in Capital Charges Budget in True-up for the FY 2010-11	<b>(71.38)</b>
Total Operating Charges Budget	<b>241.49</b>
<b>Revised SLDC Fees (Rs/MW/Half Year)</b>	<b>286.12</b>

- 2.5.1 On the basis of the True-up for the Financial Year 2010-11, SLDC has proposed its Revised tariff for the Financial Year 2012-13 in the table mentioned above.
- 2.5.2 The Aggregate revenue requirement computed herein above is exclusive of Foreign Exchange Rate Variation (if applicable), any statutory taxes, levies, duties, cess, filing fees or any other kind of imposition(s) and/ or other surcharges etc. whatsoever imposed/ charged by any Government (Central/State) and / or any other local bodies/ authorities/regulatory authorities in relation to SLDC functions, environmental protection and the same shall be borne and additionally paid by the beneficiaries to the petitioner and the same shall be charged in the monthly bills raised by the petitioner on the beneficiaries. The petitioners shall also claim the filing fee in the same manner.
- 2.5.3 The Aggregate Revenue Requirement herein above is inclusive of operation & maintenance expenses, employee expenses, administration & general expenses, interest on loan, ULD&C and other related expenses, WAM charges, RLDC/WRPC charges, depreciation, interest on working capital and return on equity.

2.5.4 The expenditure of ULD&C and other related scheme like back-up communication to ULD&C, maintenance cost of wide band Communication and cost associated with shifting of SLDC from Bhilai to Raipur is added separately into O&M expenses. The charges of ULD&C scheme is calculated based on the approval of charges for Unified Load Despatch & Communication Scheme in Western Region for the period from 1.2.2006, given by CERC on 7<sup>th</sup> November'08 against petition filed by Power Grid Corporation Ltd. The cost of other related projects are included as approved in the Western Region Power Committee after taking consent of WR constituents including Gujarat. The assets of all above projects are owned by Power Grid Corporation of India Ltd. and GETCO is sharing the cost of above. Therefore, it is appropriate to include it as separate expenses.

2.5.5 The ARR has been calculated after deducting the other Income i.e. income earned from sources accompanying with functions specified under Section 32 of Electricity Act'2003. SLDC-Gujarat has generated other income from application charges under Short term open access, scheduling charges, disposal of obsolete inventories, interest from staff loan etc.

## Chapter 3 : True-up for the FY 2010-11

### 3.1 Preamble

3.1.1 This section underlines performance of SLDC for FY 2010-11. In line with the provisions of the MYT regulations, SLDC hereby submits True - up comparing the actual performance of SLDC during FY 2010-11 with the forecast approved by the Hon'ble Commission vide Tariff Order dated 31<sup>st</sup> March, 2010 for Annual Performance Review for FY 2010-11. Accordingly, the present application covers True up for FY 2010-11. Figures approved by the commission in the Aggregate Revenue Requirement for the FY 2010-11 vide order no. 991/2010 dated 31.03.2010 have been considered as base for the True-up.

### 3.2 Principles for True-up

3.2.1 MYT Tariff Regulations, 2011 specifies that the Hon'ble Commission shall undertake the True Up of licensee for the past financial year i.e. FY 2010-11 based on the Audited Accounts vis-à-vis approved forecast. Clause 16.2(iii) and 17.2(b) explain principles for the true-up as under :

**16.2 (iii)** *Truing up of previous year's expenses and revenue based on Audited Accounts vis-à-vis the approved forecast and categorisation of variation in performance as those caused by factors within the control of the applicant (controllable factors) and those caused by factors beyond the control of the applicant (uncontrollable factors), shall be undertaken by the Commission:  
Provided that once the Commission notifies the Regulations for submission of Regulatory Accounts, the applications for tariff determination and truing up shall be based on the Regulatory Accounts;*

**17.2 (b)** *From the first year of the Control Period and onwards, the Petition shall comprise of:*

- i. Truing Up for FY 2010-11 to be carried out under Gujarat Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2005 and Gujarat Electricity Regulatory Commission (Multi-Year Tariff Framework) Regulations, 2007, and Truing Up for FY 2011-12 and onwards in accordance with these Regulations;*
- ii. Revenue from the sale of power at existing tariffs and charges for the ensuing year;*
- iii. Revenue gap for the ensuing year calculated based on ARR approved in the Tariff Order or MYT Order and truing up for the previous year;*
- iv. Application for determination of tariff for the ensuing year*

3.2.2 In line with the provisions under MYT Regulations, SLDC has filed this True Up application for FY 2010-11, wherein, SLDC has presented actual audited data for the FY 2010-11. SLDC is submitting audited actual data for FY 2010-11 vis-à-vis its comparison with approved figures by the Hon'ble Commission along with a copy of the Audited books of Accounts & Audit Report given by the Statutory Auditor.

3.2.3 Accordingly, actual data for revenue and gap for FY 2010-11 are given in the following paragraphs of this chapter.

### 3.3 Employee Cost

3.1.1 Summary of Manpower deployed at SLDC & Sub-LDCs is given in Table below.

**Table 5 : Summary of Manpower at SLDC & Sub LDCs**

Sr.	Particulars	Deployed
1	Chief Engineer	1
2	Additional Chief Engineer	1
3	Superintending Engineer	3
4	Executive Engineer	12
5	Deputy Engineer	31
6	Junior Engineer & PLCC	26
7	Sr. Radio Mechanic	2
8	Driver	2
9	Electrician Gr. I/II	4
10	Sr. Elect. / Sr. Radio Mech.	1
11	P.O. Elect. / Radio Mech.	2
12	Helper	21
13	Dy.CAO	1
14	Dy. Superintendent (A/c / EST)	1
15	Security Inspector	1
16	Teleprinter Operator	4
17	Junior Assistant	5
18	Steno Typist	1
19	Peon	3
20	Kamdar	1
21	Arm Guards	7
22	Watchman	3
<b>Total</b>		<b>133</b>

Employee expenses include salaries, bonus, other benefits like medical expense reimbursement, Leave travel allowances etc. and terminal benefits in the form of pension, gratuity, leave encashment, staff welfare etc.

The Petitioner submits that the employee cost for existing staff has been estimated considering trends of past year's employee cost, increase in dearness allowance, its merger and its impact on other allowances such as HRA, field allowances, PF, CPF etc. Additionally, increase in salary due to regular increments as well as promotion has also been considered.

Retirement and terminal benefits (PF, Gratuity, EL Encashment etc.) were previously considered in the GETCO books therefore the expenses were not shown in the SLDC books. But as now SLDC is to be separated from GETCO, the expenses pertaining to Retirement and terminal benefits has been transferred into the books of SLDC.

As the new company formation decision is still pending with GOG, SLDC has not considered the increase in the employee cost arising out of hiring new employees after the company formation.

- 3.1.2 Increase in the Employees cost in mainly due to inclusion of "terminal benefits" in the books of SLDC. Earlier these expenses were recorded in the books of GETCO. Expenses pertaining to 'revision in pay scale' don't appear in the books of SLDC as it has been accounted by GETCO in its books of Accounts. DA was also revised twice by 10% and 6% respectively in the FY 2010-11, which also contributed towards increase in Employee Cost. Details of Employee Cost for the year 2010-11 has been given in the table below :

**Table 6 : Employee Cost**

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
Total Employee Cost	610	746	819	(209)

**Table 7 : Net Gain/Losses – Employee Cost**

*(Rs. In Lacs)*

Particulars	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Employee Cost	-	(209)	-	(209)

### 3.4 Repairs & Maintenance Expenses

Repairs & maintenance expenses are directly related to age of the assets, its wear and tear during the period. SLDC-Gujarat is paying charges towards PGCIL for the O&M of ULD&C Scheme for central portion. However, State portion of ULD&C scheme is to be maintained by SLDC-Gujarat.

Further, maintenance and fixed costs is shared by GETCO (Gujarat) for the various assets created by PGCIL in the western region covered in “Central Portion” of ULD&C scheme. The maintenance and fixed costs is being pooled and shared by WR- constituents. Therefore, the cost of such projects is also apportioned to Gujarat entities through SLDC-fees and charges mechanism.

It was decided during the 10<sup>th</sup> WRPC meeting held on 30<sup>th</sup> May’2009 Annual Maintenance contract for Wideband communication equipment to M/s. Ericsson India Pvt. Ltd. for a period of 3 years and is extendable for 2 more years at the same rate. The cost of such maintenance contract is not included in the AMC of SCADA. The price has been negotiated and as decided by WRPC, it is to be shared by WR-Constituents.

Further , it was decided during the 7<sup>th</sup> WRPC meeting held on 3<sup>rd</sup> May’2008 that back up communication links to be provided from SLDCs and Strategic locations in the networks of ULD&C scheme. The WRPC agreed for above scheme. Accordingly, OPGW cable from Jambua to Gotri and Asoj to Jambua is proposed by PGCIL. It was decided that beneficiaries of WR would share the cost in respect of above back up communication link. The project is under progress and it is likely to be finished in this Financial Year. Payment regarding this has already been made by SLDC in the current Financial Year.

It was further resolved in 7<sup>th</sup> meeting of WRPC that cost of shifting of SLDC Bhilai to Raipur in the network of ULD&C scheme is to be pooled and shared by WR-beneficiaries. The project is currently under progress and likely to be finished by end of this financial year. Payment for the same was already been made.

**Table 8 : Repairs & Maintenance Expenses**

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
Repairs & Maintenance Exps.	71.00	71.00	22.15	48.85
<b>Total</b>	<b>71.00</b>	<b>71.00</b>	<b>22.15</b>	<b>48.85</b>

**Table 9 : Net Gain / Losses – Repairs & Maintenance Expenses**

*(Rs. In Lacs)*

Particulars	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Repairs & Maintenance Exps.	48.85	-	48.85	-

Some of the projects pertaining to SLDC Building renovation such as installing modular furniture, were delayed and could not be completed in the FY 2010-11 resulting in the surplus of expenses pertaining to Repairs & Maintenance.

### 3.5 Administration & General Expenses

Administration expenses mainly comprise of rents, electricity charges and telephone & other communication expenses, professional charges, conveyance and travelling expenses etc.

The administration of SLDC is presently exercised as a separate unit of GETCO as per order of GOG. The expenses like most of administration cost like professional charges, internal audit fee (internal & statutory), taxation matters, legal expenses and statutory fees etc. is carried out from corporate office.

GUVNL and its subsidiaries have established an end to end IT Solution i.e. e-Urja Project. It is estimated that an amount of Rs.100 Lacs per year will be allocated to SLDC from GETCO for computerization and maintenance of the system, as a part of A&G Expenses.

Further , as per recommendation of GoG and subsequent action plan suggested by Ministry of Power for “Ring Fencing and Autonomy of SLDC” , SLDCs has to obtain ISO certifications. Accordingly, SLDC-Gujarat has initiated action for obtaining ISO as Integrated Management System which comprises ISO 9001, OHSAS and relevant certificates. The details of A&G expenses are given below.

Table 10 : Administration &amp; General Expenses

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
A&G Expenses	160.00	160.00	141.14	18.86
E Urja Charge	100.00	100.00	100.00	-
<b>Total</b>	<b>260.00</b>	<b>260.00</b>	<b>241.14</b>	<b>18.86</b>

Table 11 : Net Gain / Losses – Administration &amp; General Expenses

*(Rs. In Lacs)*

Particulars	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
A&G Expenses	18.86		18.86	-
E-Urja Charge	-		-	-
<b>Total</b>	<b>18.86</b>	<b>-</b>	<b>18.86</b>	<b>-</b>

SLDC has been able to manage its resources well. Better handling of resources and applying various cost cutting measures to control telephone expenses, vehicle expenses, electricity expenses etc. has resulted in less than projected expenses in this category.

### 3.6 Interest on Working Capital

The interest on working capital is worked out on normative basis and is based on norms specified under the Regulations for the “Levy and collection of SLDC Charges and fees “ ( Regulation No.5 of 2005) issued by the Hon. Commission.

The working capital is projected to comprise 1/12th of O&M expenses, maintenance spares at 1% of assets added and 6% escalated value of last year’s maintenance spares, and receivables equivalent to 15 days of expected revenue from SLDC charges for FY 2010-11.

The interest rate has been considered at the rate of 11.75% as per Prime Lending Rate (PLR) as on 1<sup>st</sup> April'2010 which has been instructed by the commission in Notification No.5 of 2005, Levy and Collection of Fees and Charges by SLDC Regulations.

Table 12 : Interest on Working Capital

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
O & M Expenses	78.00	89.77	157.80	
Maintenance & Spares	18.00	6.90	3.54	
Receivables	85.00	81.25	72.22	
<b>Total Working Capital</b>	<b>181.00</b>	<b>177.92</b>	<b>233.57</b>	
Rate of Interest	10.25%	11.75%	11.75%	
<b>Interest on Working Capital</b>	<b>18.55</b>	<b>20.91</b>	<b>27.44</b>	<b>(8.89)</b>

Table 13 : Net Gain / Losses – Interest on Working Capital

*(Rs. In Lacs)*

Particulars	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Interest on Working Capital		(8.89)	-	(8.89)

### 3.7 Charges for ULDC and Other Related Projects

#### 3.7.1 ULD & C Charges

CERC has issued order for Approval of charges for Unified Load Despatch & Communication Scheme in Western Region for the period from 1.2.2006. Accordingly, the Central portion charges as per the preceding para shall be shared by beneficiaries/constituents in Western Region in the ratio of central generating capacity allocation, including the allocation from unallocated capacity from the Central Generating stations. Inter-regional export/import of power, whether bilateral or multilateral, would not affect the sharing of charges for Unified Scheme. The State portion charges shall be shared by the States in proportion to respective capital cost as on 31.3.2006

In the 8<sup>th</sup> meeting of WRPC held on 12<sup>th</sup> September'2008, WRLDC had intimated that ULDC project was under extended AMC period upto 31.05.2009 and stressed the need for going in for a comprehensive Long Term Service Agreement (LTSA). In this connection, it was informed to the committee that M/s. GE has submitted offer to take up AMC which broadly covered the scope of SCADA/EMS/DTS software as well as hardware of SLDC/Sub-LDCs. Subsequently, negotiation committee has been formed and deliberate on various options & aspects. It was also agreed by all committee member of WR including SLDC-Gujarat in 10<sup>th</sup> meeting that WRLDC/PGCIL would go ahead with awarding of maintenance of SCADA/EMS system in Western Region to M/s GE and LTSA arrangements with them. Accordingly, the aforesaid annual maintenance contract is commenced from 14<sup>th</sup> August'09. Percentage sharing of GETCO is also decided as 17.36% as per agreement executed with PGCIL.

### **3.7.2 Maintenance Contract for Wideband Communication**

WR constituents including GETCO principally agreed to give AMC for Wideband Telecommunication Equipment to M/s Ericsson India Pvt. Ltd for a period of 3years and requested POWERGRID to finalise the terms and conditions and price with M/s Ericsson keeping in view of expiry of the existing AMC for wideband telecommunication equipment by 09.04.2009. The above communication channels are required to bring data on SCADA system from Chattisgarh, Madhya Prdaesh and Gujarat.

Accordingly, PGCIL finalized terms and conditions and technical specifications and price for Long Term Service agreement for AMC of wideband telecom equipment supplied and commissioned under System Coordination and Control project of Western Region with M/s Ericsson India Pvt.

Payment for Maintenance Contract for Wideband Communication pertaining to the FY 2010-11 (Rs.25.84 Lacs) has not been booked in the books of accounts and will be booked in the FY 2011-12, therefore this expenses has not been accounted in the audited books of accounts, however as the expenses has been occurred, SLDC has considered it in the true-up for the FY 2010-11. SLDC requests Hon'able commission to accept and approve the same. The work has been finished in the FY 2011-12 hence SLDC proposed to consider the same in the True-up of FY 2011-12

### 3.7.3 Back-up Communication Links from SLDCs and Strategic Locations

In order to improve the reliability of data communication between WRLDC and SLDCs, a scheme for backup communication links from SLDCs and strategic locations in the networks of ULDC proposed by WRLDC/PGCIL was ratified by WRPC.

All constituents agreed to the need for back-up communication links between SLDCs / Strategic locations and WRLDC and also usefulness of back-up links between Sub-LDCs to SLDCs and cost of the above project is to be shared by constituents. It is assumed that sharing of cost of this project is similar to that of ULD&C scheme. The work has almost finished and invoice is yet to be received, hence the expenses will be considered in the next Financial Year (2011-12) in the books of accounts of SLDC.

### 3.7.4 Shifting of SLDC under ULDC Scheme

During the 7<sup>th</sup> meeting of WRPC held on 3<sup>rd</sup> May'2008, it was decided that SLDC from Bhilai will be shifted to Raipur under the ULD&C scheme network and the cost associated with the network & data communication link will be pooled to regional system. The all constituents were agreed and accordingly, the above expenditure is to be shared by all constituents of WR including Gujarat. The amount has already been paid as advance. The work has almost finished and invoice is yet to be received, hence the expenses will be considered in the next Financial Year (2011-12) in the books of accounts of SLDC.

### 3.7.5 Total Charges for ULDC and other Related Projects

In consideration of above, the sharing of charges for SLDC-Gujarat for ULD&C scheme derived in Table-57 for central portion and State portion. The capacity allocation is considered for computation of central portion as per Regional Energy Account issued by WRPC for the month of April'10.

Table 14 : Charges for ULDC and Other Related Projects

<i>(Rs. In Lacs)</i>					
Particulars	2010-11				
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation	
<b>Central Portion</b>					
Total ULDC Charges (Central Portion)	1,980.00	1,980.00		1,980.00	
Weighted Average	25.10%	25.10%		25.10%	
Recovery of ULDC charges	<b>496.98</b>	<b>496.98</b>	<b>496.98</b>	-	

State Portion					
	Total ULDC Charges (State Portion)	801.00	801.00		801.00
	Ratio for Sharing (As per CERC Order)	24.67%	24.67%		24.67%
	Recovery of Capital Charges	<b>197.61</b>	<b>197.61</b>	<b>197.61</b>	<b>(0.00)</b>
Annual Maintenance Charges					
	Proposed Maintenance Charges	<b>112.00</b>	<b>112.00</b>	<b>106.62</b>	<b>5.38</b>
Maintenance for Wideband Communication					
	Proposed Maintenance Charges	<b>25.00</b>	<b>25.00</b>	-	<b>25.00</b>
Sharing in Shifting of SLDC under ULD & C					
	Proposed sharing of Charges	<b>130.00</b>	<b>130.00</b>	-	<b>130.00</b>
Backup Communication to ULD & C Scheme					
	Proposed sharing of Charges	<b>58.00</b>	<b>58.00</b>	-	<b>58.00</b>
	<b>Charges for ULD &amp; C &amp; Other related Projects</b>	<b>1,019.59</b>	<b>1,019.59</b>	<b>801.21</b>	<b>218.38</b>

Table 15 : Net Gain / Losses – Charges for ULDC and Other Related Projects

Particulars	(Rs. In Lacs)			
	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Charges for ULDC & Other related Projects		<b>218.38</b>	-	<b>218.38</b>

### 3.8 WAM Charges

In the 10<sup>th</sup> WRPC meeting, project of WAM system proposed by PGCIL in WR is approved and agreed by WR constituents. This project provides more advanced measurement systems that will be utilized for synchronized measurements from geographically distant locations and increase the situational awareness by monitoring wide area in real time.

This project cost is to be pooled in regional system and to be shared by WR constituents including Gujarat. It is assumed that sharing of this project be carried out in proportionate to allocation as in line with ULD&C scheme. Accordingly, annual charges to be shared by SLDC-Gujarat.

The Project could not be implemented in the FY 2010-11 and hence there were no expenses to be booked against it. As the implementation of the project is beyond control of SLDC, SLDC has categorized this deviation as uncontrollable.

Table 16 : WAMS Charges

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
Annual Instalment		90.00		90.00
% Allocation Average (As per March'09 REA)		25.00%		0.25
<b>Sharing by GETCO</b>	<b>22.00</b>	<b>22.66</b>	-	<b>22.00</b>

Table 17 : Net Gain / Losses – WAM Charges

*(Rs. In Lacs)*

Particulars	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
WAMs Charges		22.00	-	22.00

### 3.9 Depreciation

Depreciation for the year has been calculated considered as per Company's Act provisions for various blocks of assets. Depreciation on fixed assets has been provided on Straight Line Basis as per the rates specified in Schedule XIV to the Companies Act, 1956. Depreciation on fixed assets has been provided from the date of assets put to use/up to the date of assets withdrawn from use.

The fixed assets related to SLDC were segregated after detailed analysis of the books of accounts. Assets related to SLDC were identified along with the proportionate depreciation on the same from the fixed assets prepared at circle level. All such assets have been transferred to the SLDC's accounts from respective circle offices.

Commission has approved depreciation for the FY 2010-11 at Rs.63.00 lacs, whereas, actual figure for the Depreciation for the FY 2010-11 is coming out to be Rs.37.31.

Decrease in the actual depreciation is mainly due to lesser capitalization of CAPEX in the FY 2010-11.

**Table 18 : Depreciation**

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
<b>Depreciation</b>	<b>63.00</b>	<b>54.84</b>	<b>37.31</b>	<b>25.69</b>

**Table 19 : Net Gain / Losses – Depreciation**

*(Rs. In Lacs)*

Particulars	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Depreciation		<b>25.69</b>	-	<b>25.69</b>

### 3.10 Interest and Finance Charges

The interest expenditure on account of long-term loans depends on the outstanding loan, repayments and prevailing interest rates on the outstanding loans. Further, the projected capital expenditure and the funding of the same also have a large bearing on the long-term interest expenditure.

Interest and Finance Charges includes interest on notional borrowed funds determined by applying the average cost of borrowings of GETCO to the notional debt of SLDC. The capital expenditure during 2011-12 has been to be undertaken at a normative debt: equity ratio of 70:30 in accordance with the GERC (Levy and collection of fees and charges for SLDC).

Interest on Loans for the FY2010-11 has been calculated @ 10.998% on the closing balance of Loans. For the purpose of repayment, average tenure of the loan has been assumed as 10 years for all loan portion allocated to SLDC from GETCO loans and accordingly repayments for FY 10-11 and for the control period have been calculated.

**Table 20 : Interest & Finance Charges**

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
Opening Loans	676.00	423.29	257.50	418.50
Addition during Year	344.00	344.40	147.06	196.94
Repayment During the Year	68.00	42.33	25.94	42.06
Closing Loans	952.00	725.36	378.62	573.38
Average Loans	814.00	574.33	318.06	495.94
Interest on Loans (a)	85.06	60.02	41.64	43.42
Other Interest Charges (b)	-	-	6.02	(6.02)
<b>Total Interest &amp; Finance Charges (a+b)</b>	<b>85.06</b>	<b>60.02</b>	<b>47.66</b>	<b>37.40</b>

Other Interest and Finance charges include Discount to consumers for timely payment of the bill amounting to Rs 5.87 Lacs and other charges Rs. 0.15 Lacs.

**Table 21 : Net Gain / Losses – Interest & Finance Charges**

*(Rs. In Lacs)*

Particulars	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Interest & Finance Charges		37.40	-	37.40

### 3.11 Return on Equity

In the initial period of separation of SLDC, equity and liabilities are to be allotted to SLDC. At the initial period of SLDC-Gujarat, no separate long term loan is availed by SDLC-Gujarat and hence it is appropriate to transfer equity on the basis of overall Debt:Equity ratio of GETCO as on 31.03.2011. Equity at the rate of 30% of capital expenditure is considered for FY 2010-11 as addition in the existing equity of FY 2009-10.

Rate of return on equity is considered as 14% p.a. in line with the norms specified by the Hon'ble Commission vide regulation "Levy and collection of SLDC fees and charges by SLDC 2005"

Table 22 : Return on Equity

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
Opening Equity Capital	398.00	227.24	216.76	10.48
Addition During Year	147.00	147.60	63.02	84.58
Closing Equity	545.00	374.84	279.78	95.06
Average Equity	471.50	301.04	248.27	52.77
<b>Return on Equity</b>	<b>66.01</b>	<b>42.15</b>	<b>34.76</b>	<b>31.25</b>

Table 23 : Net Gain / Losses – Return on Equity

*(Rs. In Lacs)*

Particulars	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Return on Equity	-	31.25	-	31.25

### 3.12 Provision for Taxation

Tax on the income streams shall be computed as an expense and shall be recovered from the beneficiaries. Since, SLDC is paying these taxes through the consolidated tax payment made by GETCO; it is proposed to recover the same. Tax @ 19.9305%, as per the Minimum Alternate Tax (MAT) rate, has been considered on the calculation of profit.

SLDC humbly request the Hon'ble Commission to allow above taxes to be recovered from the beneficiaries.

Table 24 : Provision for Taxation

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
Provision for Taxation	10.00	22.86	4.47	5.53
<b>Provision for Taxation</b>	<b>10.00</b>	<b>22.86</b>	<b>4.47</b>	<b>5.53</b>

Table 25 : Net Gain / Losses – Provision for Taxation

Particulars	<i>(Rs. In Lacs)</i>			
	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Provision for Taxation		5.53	-	5.53

### 3.13 Revenue of SLDC

#### 3.13.1 Principles for 'Recovery and Levy of Charges by SLDC'

3.13.1.1 As per clause 4(2) of regulation 5 of 2005 issued by GERC, expenses incurred by the SLDC related with the discharge of its functions as specified in Section 32 of the Electricity Act shall be recovered from the Generating Companies and Licensees through Charges. Accordingly, SLDC has to recover annual revenue requirement against capital expenditure as well as O&M Charges as SLDC fees (semi-annual basis) and SLDC charges (monthly basis).

3.13.1.2 In accordance with the aforesaid regulation, SLDC-Gujarat proposes 'principles' for levy and recovery of 'SLDC Fees and Charges' to meet with the revenue requirements of SLDC as under :

- (a) **Registration or Connection Fees:** Corresponding to clause no.3 of regulation 5 of 2005 issued by GERC and as per Grid Connection procedure proposed by SLDC-Gujarat.
- (b) **Annual SLDC Fees** – Corresponding to proposed annual capital cost to be incurred during 'specified control period' to be payable on semi-annual basis by generating companies and distribution licensees.
- (c) **SLDC Charges** – corresponding to annual operating costs comprising employee expense, R&M expense, A&G expense, interest on working capital and RLDC fees and charges, monthly payment of ULD&C and related charges towards PGCIL.

3.13.1.3 Annual SLDC Fees – shall be recovered from distribution licensees, generating companies and any other long term open access users of intra state transmission network. Annual SLDC fees will be allocated to generating companies in proportion to their installed capacity. Whereas in case of beneficiaries/distribution licensee, fees will be recovered in proportion to their capacity allocation. SLDC Fees shall be recovered on half-yearly basis.

3.13.1.4 SLDC Charges – shall also be levied on the same principle as mentioned in above said para 2.3.2 ( c) and to be recovered from generating companies, distribution licensee and any other approved long term open access users. SLDC Charges shall be recovered on monthly basis.

**Table 26 : Revenue from SLDC Fees and SLDC Charges**

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Income	Deviation
Revenue from SLDC Charges	<b>1,858.00</b>	<b>1,882.41</b>	<b>1,537.70</b>	<b>(320.30)</b>
Revenue from SLDC Fees	<b>224.00</b>	<b>222.29</b>	<b>195.58</b>	<b>(28.42)</b>
<b>Total</b>	<b>2,082.00</b>	<b>2,104.70</b>	<b>1,733.28</b>	<b>(348.72)</b>

### 3.13.2 State Generation and Allocation Capacity for the FY 2010-11

SLDC Fees and SLDC charges are recovered from Generators and beneficiaries on the basis of Installed and allocated capacity respectively. Installed Capacity and Allocation Capacity (Approved vs actual) for the FY 2010-11 of the state is mentioned in the table below :

**Table 27 : State Generation Capacity 2010-11 (Approved Vs Actual)**

*(In MW)*

Sl. No.	Entity	2010-11 Approved	2010-11 Actual	
			April'10	March'11
1	GSECL	5,714.00	5,215.07	5,215.07
2	GIPCL	145.00	145.00	145.00
3	GIPCL-II	165.00	165.00	165.00
4	SLPP	500.00	500.00	500.00
5	GSEG	507.00	156.10	156.10
6	GPEC	655.00	655.00	655.00

7	ESSAR	515.00	515.00	515.00
8	AKRIMOTA	250.00	250.00	250.00
9	ARYAN COAL LTD	100.00	-	-
10	PIPAVAV JV CCGT	-	-	-
11	SUGEN MPP	1,147.50	1,147.50	1,147.50
12	TPAECL	500.00	500.00	500.00
13	FIRM CAPTIVE	-	-	-
14	CAPTIVE	820.00	820.00	820.00
15	WIND FARM	2,435.00	1,782.31	2,094.30
16	Adani Power	-	-	1,980.00
<b>Total Generation</b>		<b>13,453.50</b>	<b>11,850.98</b>	<b>14,142.98</b>

**Table 28 : Allocation Capacity 2010-11 (Approved Vs Actual) (in MW)**

Sl. No.	Entity	2010-11 Approved	2010-11 Actual	
			April'10	March'11
1	DGVCL	1,985.00	2,489.09	3,372.60
2	MGVCL	1,762.00	1,796.09	1,780.00
3	UGVCL	2,409.00	3,354.82	3,361.00
4	PGVCL	3,135.00	3,803.21	4,162.00
<b>Total DISCOMs</b>		<b>9,291.00</b>	<b>11,443.21</b>	<b>12,675.60</b>
5	GUVNL	3,125.00	-	-
6	GSFC Fibre	5.00	5.00	5.00
7	GSFC Polymer	2.00	2.00	2.00
8	GSFC Sikka	5.00	5.00	5.00
9	GSFC Vadodara	47.00	47.00	47.00
10	GACL Vadodara	41.00	41.00	41.00
11	GAIL	2.00	2.00	2.00
12	ONGC Hazira	14.00	14.00	14.00
13	ONGC Ankleshwar	16.00	12.72	12.72
14	GACL Wheeling	12.00	12.00	12.00
15	United Phosphorus	11.00	11.00	11.00
16	NIRMA	-	-	-
17	ESSAR Steel Ltd	751.00	751.00	751.00
18	SAL Steel Ltd	14.00	13.50	13.50
19	NTPC Variav	1.00	-	-
20	TPAECL	900.00	-	117.50
21	TPSECL	400.00	573.75	463.00
22	Wind Farm Users	1,748.00	962.31	1,274.30
23	Heavy Water Plant	18.00	18.00	18.00
24	KPTL	-	8.00	8.00
<b>Total Allocation</b>		<b>16,403.00</b>	<b>13,921.49</b>	<b>15,472.63</b>

### 3.13.3 Revenue from Other Sources

SLDC is collecting scheduling charges, application charges from various short term open access users. Such revenue collection by SLDC-Gujarat is to be accounted as revenue

from other sources. Hence, it is appropriate to consider scheduling charges, application charges collected from short term open access users as revenue from other sources.

SLDC-Gujarat earned further revenue from other sources in FY 10-11 which includes interest on staff loans, interest on investments, income for sale of stores etc. Thus the benefit on account of contribution from short term open access users and other sources is passed to consumers.

The interest on staff loans, interest on investment, income for sale of stores etc. is to be covered in other income. Revenue from other income is deducted from the total expenses of SLDC to arrive at Net expenses of SLDC for the FY 2011-12.

As Application Fee and Scheduling Charges are the major components of SLDC's Revenue from other sources, status of Short Term Open Access for the FY 2010-11 will be worth mentioning. The table below represents Short Term Open Access Applications granted in the FY 2010-11

**Table 29 : Short Term Open Access Granted**

Sr No	Category	No of Applications	Granted up to (MW)	Total Mus
1	Intra State Short term open access	62	364.30	2933.30
2	Inter State Collective Transaction(PX)	264	2964.57	4556.57
3	Inter State Bilateral Transaction	266	850.00	3392.68
	<b>Total</b>	<b>592</b>	<b>4178.87</b>	<b>10882.55</b>

**Table 30 : Revenue from Other Sources**

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Income	Deviation
Interest on Staff Loans & Advances	4.00	6.34	4.01	0.01
Miscellaneous Receipts	50.00	2.15	6.69	(43.31)
Scheduling Charges	68.00	142.05	139.85	71.85
Application/Registration Charges	34.00	11.46	22.47	(11.53)
<b>Total</b>	<b>156.00</b>	<b>162.00</b>	<b>173.02</b>	<b>17.02</b>

**Table 31 : Net Gain / Losses – Revenue from Other Sources**

Particulars	<i>(Rs. In Lacs)</i>			
	2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Revenue from Other Sources	-	<b>17.02</b>	-	<b>17.02</b>

### 3.14 Capital Expenditure

#### 3.14.1 Rationale for Capital Expenditure

A significant portion of LDC cost arises because of the grid operations are to be carried out round-the-clock requiring adequate redundancy in resources to tide over contingencies. There is a heavy reliance on information technology with components having high obsolescence rate. A few of the applications (such as SCADA/EMS) are offered by a limited number of vendors and costs are high.

In view of revised role of State Load Dispatch Centre after enactment of Electricity Act'2003, it is necessary to strengthen SLDC to meet forthcoming challenges for next three years. Accordingly, Capital Expenditure (CAPEX) is planned for modernization of SLDC, to strengthen and develop to meet all forthcoming challenges.

In accordance with recommendation 1(c) and 1(d) of Girish Pradhan Committee endorsed by GoI, Capital Expenditure (CAPEX) plans for modernization of all LDCs during 2009-12 should be submitted and the approval of the respective Electricity Regulatory Commission (ERC) should be obtained by 31st March 2009. Further, rolling 5-year CAPEX plans should be prepared by each LDC and got approved by the respective ERCs to take care of the system expansion, associated real-time data requirements as well as technological innovations and obsolescence of control centre equipment. Hereby, the applicant submits five year CAPEX plan to Hon'ble commission for approval.

CAPEX plan includes, projects mainly focused on system expansion, real time data requirements, installation & development of telemeter infrastructure, technological innovations and obsolesce & replacement of existing infrastructure, strengthening of

existing data communication channels, billing & commercial centre development, system study and IT related infrastructure

### 3.14.2 Capital Expenditure for the FY 2010-11

Total Capital Expenditure for the FY 2010-11 has been booked at Rs.210.08 Lacs in the books, whereas the approved figure of CAPEX for the FY 2010-11 was Rs.983.00 Lacs. One of the major components of CAPEX for the FY 2010-11 was SLDC Building development which could not be processed as the decision for creation of SLDC as a separate company is still pending with GoG. Some of the projects which started in FY 2010-11 could not be finished in the same FY and hence have been carried over to the FY 2011-12.

**Table 32 : Capital Expenditure for the FY 2010-11**

Particulars	<i>(Rs. In Lacs)</i>	
	2010-11	
	CAPEX Approved	Capitalization
Capital Expenses	<b>983.00</b>	<b>210.08</b>

### 3.14.3 Funding of the CAPEX for the FY 2010-11

The above shown Capital expenditure in the FY 2010-11 has been raised through the means of loans and equity with the debt equity ratio of 70:30. Presently, such loans would be availed by GETCO in the initial period of separation of SLDC and allocate to SLDC till formation of separate company and representative structure board.

**Table 33 : Funding of CAPEX for the FY 2010-11**

Particulars	<i>(Rs. In Lacs)</i>	
	2010-11	
	CAPEX Approved	Capitalization
Capital Expenses	<b>983.00</b>	<b>210.08</b>
Funding through Debt		<b>147.06</b>
Funding through Equity		<b>63.02</b>

### 3.14.4 Revised Capital Expenditure for the FY 2012-13

Table 34 : Revised CAPEX Plan for the FY 2012-13

Sl. No.	Particulars (Rs. In Lacs)	(Rs. In Lacs)	
		2012-13	
		Approved	Revised
1	land Acquisition Cost	20	20
2	Augmentation/Upgradation of Existing System	145	375
3	Strengthening of Communication Channels & WAMS	50	1150
4	Additional System / Software Planning	40	887
5	IT Infrastructure	20	20
6	SLDC Building Development	120	50
7	Office Equipment	50	50
8	Staff Recreation Facilities	15	0
	<b>Total Capital Expenditure</b>	<b>460</b>	<b>2552</b>

SLDC has revised its Capital Expenditure Plan for the FY 2012-13 owing to inclusion of three ambitious projects which will help improving entire system and overall efficiency by strengthening communication systems and software support. A brief description of the projects is mentioned below.

#### Software for Energy Accounting and Scheduling for State Pool Account with EMR Support

**Estimated Cost : Rs. 846. Lacs**

The objectives of Indian Electricity Act 2003 are Availability, Afford-ability, and Grid Discipline. One of the prime mechanisms devised by CERC is to ensure the objectives are met is Availability Based Tariff (ABT) mechanism. The state electricity regulatory commissions have devised their own Intra State ABT regulations taking cue from CERC regulations and adding the state's individual constraints and criteria into account. Especially the scheduling and energy accounting process is more complex, than in regional level, the complexity being attributed to injection at various voltages (renewable energy, CPPs & IPPs, mini & micro hydels), drawal at various voltages (HT, LT), Inter and Intra state Open Access generators and consumers, multiple PPAs etc., The regulatory commissions have entrusted respective state load dispatch centre with the function of ensuring availability, afford-ability and grid discipline by implementing intra state ABT observing State grid code.

SLDC has to maintain Energy Accounting for the State involves major following activities:-

- Energy scheduling for day ahead and day of operation following the process defined by GERC.
- System monitoring.
- Meter Data Acquisition for analysis and accounting.
- Energy Accounting for the state.
- Energy Billing: Balancing and settlement; UI charges, energy charges, capacity charges realization, mis-declaration penalty, reactive energy charges, transmission charges, and open access charges.
- Calculation of Total transmission capacity, Available transmission capacity.
- Enable open access approval process.
- Adhere to Wind/ Solar regulations.
- Web based solution where in the authenticated users of constituents will enter information like declared capacity, drawl request, open access request etc. into the web page directly.

Present ABT/SCHEDULING software was installed & commissioned from since 5 years and now it is necessary to redevelop and redesign the software with latest technology and to incorporate various changes as per the regulations & account methodology. Optimization by implementing new software with increase in users & their requirement with minimal manual intervention & web interfaces.

It is also necessary to replace the existing system of meter (SEM) data receipt as it is done manually. A comprehensive software solution from meter data receipt to report generation with web integration by making it fully automatic thereby reduce manual intervention and maintaining a high degree of accuracy.

It is also expected paradigm shift in the SCHDEULING & ACCOUNTING methodology as new regulations like WIND Generation forecasting, REC mechanism, POC charges, Incorporation of WIND/SOLAR generation, Increase in Open Access Users for SLDC's forthcoming challenges. Hence, this leads to redevelopment of ABT/Scheduling software with high standard in terms of latest technology, handling large volume of data storage

& its processing for various reports, high speed data retrieval, high accuracy, & elevated security, etc.

SLDC has initiated to identify the best availability of such type of software in the market. In this regard, The IT companies who have completed such type of software along with AMR solution or any relevant development, matching with the requirement of SLDC are invited for the Discussion and submitting also budgetary offer with their suggestion to make this development with best available recourses and practices in the market.

#### **Installation and Commissioning of 17 Nos. of RTUs**

##### ***Estimated Cost : Rs. 230 Lacs***

At present some of the radial feeders are provided with RTU at one end only since it was considered as bare minimum visibility for grid operation in present condition. However looking to the rapid power system expansion in the de-licensed and open access era, connecting radial feeders may not be radial stations for long. Further while modelling for EMS functions for power flow studies, state estimations, contingency studies etc., real time from all stations are required.

In view of above, as per directive of POSOCO in letter under reference, out of total 32 nos. of 220KV radial feeders, 17nos. of radial feeders having RTU at one end are identified and 17 nos. of RTU are required to be procured.

Total approximate cost for supply, install and commission of 17 nos. of RTU shall be Rs. 230 Lacs.

#### **Wide Area Measurements (WAMS) through Phasor Measurement Units(PMUs)**

##### ***Estimated Cost : Rs.1100 Lacs***

Existing SCADA system having latency of the order of 10-12 seconds for the Analog/Status scan points and EMS system having limitations for carrying out system study in the Steady state mode. In the era of complex growing grid, it is highly opined to know the transient status of the Grid and to forecast the contingency and abnormality either in graphical/geographical format by providing WAMS.

PMU is an electronic device which gives the phasor measurement of the electrical quantity which means system will show the magnitude and angular position of the electrical quantity. It is useful for monitoring Stress level of grid in real-time by providing load angles of transmission lines.

As renewable energy resources like unpredictable Wind generation creates real-time challenges to Grid operators, the PMU will provide information well in advance about the status of the affected pocket of the grid.

Hence it is opined that by providing PMU an MRI state of the grid can be visualize compare to X-ray state provided by the existing system. Also high level of analysis ('Post-mortem Analysis') in the event of grid disturbance can be achieved as PMU operates at very low latency by means of measuring 50 samples per second.

It is the need of the hour to implement WAMS with integration of PMU data to make operator more intelligent to handle the grid operation.

**SLDC is submitting Revised CAPEX Plan for 2012-13 with an intention to appraise Hon'able Commission regarding progress at SLDC and has not considered financial implications of this revision to calculate tariff for the FY 2012-13.**

## Chapter 4 : Determination of Tariff for the FY 2012-13

### 4.1 True - up for the FY 2010-11

Based on the details mentioned in the previous chapter, True-up for the FY 2010-11 comes out as below :

Table 35 : True-up for the FY 2010-11

*(Rs. In Lacs)*

Particulars	2010-11			
	Approved in Tariff Order for 2010-11	Approved by Commission in APR 2010-11	Actual Expenses	Deviation
Employee Cost	610.00	746.10	819.20	(209.20)
Repairs & Maintenance	71.00	71.00	22.15	48.85
Admin & General Expenses	260.00	260.00	241.14	18.86
Interest on Working Capital	18.55	20.91	27.44	(8.89)
RLDC Fees & Charges	12.00	11.24	9.96	2.04
Charges for ULDC & Other Related Projects	1,019.59	1,019.59	801.21	218.38
WAM Charges	22.00	22.66	-	22.00
Less : Other Income	156.00	162.00	173.02	(17.02)
Add : Prior Period Expenses & Misc. Losses and Write-offs	-	-	15.18	(15.18)
<b>Operating Cost Budget (a)</b>	<b>1,857.14</b>	<b>1,989.49</b>	<b>1,763.26</b>	<b>93.88</b>
Depreciation	63.00	54.84	37.31	25.69
Interest & Finance Charges	85.06	60.02	47.66	37.40
Return on Equity	66.01	42.15	34.76	31.25
<b>Total Fixed Costs</b>	<b>214.07</b>	<b>157.00</b>	<b>119.73</b>	<b>94.34</b>
Less : Expenses Capitalized				-
Add : Provision for Taxation	10.00	8.40	4.47	5.53
<b>Capital Cost Budget (b)</b>	<b>224.07</b>	<b>165.40</b>	<b>124.20</b>	<b>99.87</b>
<b>Total Revenue Budget (a+b)</b>	<b>2,081.21</b>	<b>2,154.89</b>	<b>1,887.47</b>	<b>193.75</b>

## 4.2 Net Gain / Losses for the FY 2010-11

Based on the true-up mentioned above, Net Gain / Losses for SLDC for the FY 2010-11 has been calculated as below :

Table 36 : Net Gain / Loss for the FY 2010-11

(Rs. In Lacs)

Particulars	FY 2010-11		Total	
	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor	Gain/(Loss) due to Controllable Factor	Gain/(Loss) due to Uncontrollable Factor
Employee Cost	-	(209.20)	-	(209.20)
Repairs & Maintenance	48.85	-	48.85	-
Admin & General Expenses	18.86	-	18.86	-
Interest on Working Capital	-	(8.89)	-	(8.89)
RLDC Fees & Charges	-	2.04	-	2.04
Charges for ULDC & Other Related Projects	-	218.38	-	218.38
WAM Charges	-	22.00	-	22.00
Less : Other Income	-	17.02	-	17.02
<b>Operating Cost Variation (a)</b>	<b>67.71</b>	<b>41.34</b>	<b>67.71</b>	<b>41.34</b>
<b>Net Gains / Losses on account of Controllable/ Uncontrollable factor for Operating Cost Budget</b>	<b>67.71</b>	<b>41.34</b>	<b>67.71</b>	<b>41.34</b>
<b>Gain on account of Controllable factor to be passed on to Consumer (1/3 of Total Gain)</b>	<b>22.57</b>	<b>-</b>	<b>22.57</b>	<b>-</b>
<b>Losses on account of Uncontrollable factor to be passed on to Consumer</b>	<b>-</b>	<b>41.34</b>	<b>-</b>	<b>41.34</b>
Depreciation	-	25.69	-	25.69
Interest & Finance Charges	-	37.40	-	37.40
Return on Equity	-	31.25	-	31.25
<b>Total Fixed Costs</b>	<b>-</b>	<b>94.34</b>	<b>-</b>	<b>94.34</b>
Less : Expenses Capitalized	-	-	-	-
Add : Provision for Taxation	-	5.53	-	5.53
<b>Capital Cost Variation (b)</b>	<b>-</b>	<b>99.87</b>	<b>-</b>	<b>99.87</b>
<b>Net Gains / Losses on account of Controllable/ Uncontrollable factor for Capital Cost Budget</b>	<b>-</b>	<b>99.87</b>	<b>-</b>	<b>99.87</b>
<b>Gain on account of Controllable factor to be passed on to Consumer (1/3 of Total Gain)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Losses on account of Uncontrollable factor to be passed on to Consumer</b>	<b>-</b>	<b>99.87</b>	<b>-</b>	<b>99.87</b>
<b>Gain on account of Controllable factor to be passed on to Consumer</b>	<b>22.57</b>	<b>-</b>	<b>22.57</b>	<b>-</b>
<b>Losses on account of Uncontrollable factor to be passed on to Consumer</b>	<b>-</b>	<b>141.21</b>	<b>-</b>	<b>141.21</b>

### 4.3 Revenue Gap for the FY 2010-11

Revenue Gap of SLDC for the FY 2010-11 has been calculated as below :

Table 37 : Revenue Gap for the FY 2010-11

(Rs. In Lacs)

Sr. No.	Particulars	FY 2010-11
1	Operating Cost Budget Approved by the Commission (a)	1,857.14
	Gain / (Loss) on Account of Uncontrollable Factor to be passed on to the Consumer for Operating Cost (b)	41.34
	Gain / (Loss) on Account of Controllable Factor to be passed on to the Consumer for Operating Cost (c)	22.57
	Revised Operating Cost (a-b-c)	1,793.23
	<b>Less:</b> Actual Revenue from SLDC Charges	1,537.70
	Revenue Gap in Operating Cost	255.53
2	Capital Cost Budget Approved by the Commission (a)	224.07
	Gain / (Loss) on Account of Uncontrollable Factor to be passed on to the Consumer for Capital Cost (b)	99.87
	Gain / (Loss) on Account of Controllable Factor to be passed on to the Consumer for Capital Cost (c)	-
	Revised Capital Cost (a-b-c)	124.20
	<b>Less:</b> Actual Revenue from SLDC Fees	195.58
	Revenue Gap in Capital Cost	(71.38)
3	Total Revenue Gap in the FY 2010-11	184.15

#### 4.4 Tariff for the FY 2012-13

The applicant proposes tariff for SLDC Fees and SLDC Charges as for the FY 2012-13 as follows :

**Table 38 : Tariff for the FY 2012-13**

Particulars	2012-13
SLDC Operating Charges Budget (Approved in MYT)	<b>1,848.46</b>
Add : Revenue Gap in Operating Charges Budget in True-up for the FY 2010-11	<b>255.53</b>
Total Operating Charges Budget	<b>2,103.99</b>
Total MW Capacity	<b>18,538.00</b>
Total MW Allocation	<b>23,663.00</b>
Revised SLDC Charges (Rs/MW/Month)	<b>415.47</b>
SLDC Capital Charges Budget	<b>312.87</b>
Add : Revenue Gap in Capital Charges Budget in True-up for the FY 2010-11	<b>(71.38)</b>
Total Capital Charges Budget	<b>241.49</b>
Revised SLDC Fees (Rs/MW/Half Year)	<b>286.12</b>

## **Chapter 5 : Compliance of Directives**

Various directives have been issued by Government of Gujarat and/or Gujarat Electricity Regulatory Commission to SLDC through regulation or appropriate communication. Further, Hon'ble commission has issued certain directives to GETCO which in turn applicable to SLDC are covered in this chapter with necessary compliance:

### **4.1 Auditing of SLDC Accounts**

#### *Directive*

The commission had stated that SLDC continues to be a part of GETCO and maintains separate books of accounts but no separate audit is done for SLDC Accounts

Therefore the Commission had instructed SLDC to get its assets duly certified by a Statutory Auditor. Also accounts of SLDC should be audited by Statutory Auditor and duly certified by the auditor. The Truing up for 2010-11 would be approved only based on such certificate by the Statutory Auditor.

#### *Compliance / Action taken*

SLDC has got its assets and books of accounts certified by Statutory Auditor. A copy of the same has been attached as with in the petition for commission's reference.

## Chapter 5 : Prayer

SLDC – Gujarat respectfully prays to the Hon'ble Commission;

1. To admit this petition for approval of True-up for the FY 2010-11 and Aggregate Revenue Requirement for the FY 2012-13 of State Load Dispatch Centre of Gujarat
2. To approve the Tariff for the FY 2012-13 and allow recovery of charges from 1<sup>st</sup> April'2012.
3. To accept the figures in **Rupees Lacs**, as the figures of SLDC are comparatively smaller than other entities.
4. To approve methodology for recovery of SLDC Charges and fees from existing intra State grid users.
5. To grant any other relief as the Hon'ble Commission may consider appropriate.
6. To allow further submissions, addition and alteration to this Petition as may be necessary from time to time.
7. To 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.

**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.**

**PETITIONER**

**GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED**

**Vadodara :**

**Date: 29.11.2011**

**BEFORE THE HONOURABLE GUJARAT ELECTRICITY REGULATORY COMMISSION  
AT ITS OFFICE OF 1<sup>ST</sup> FLOOR, NEPTUNE TOWER, OPPOSITE NEHRU BRIDGE,  
ASHRAM ROAD, AHMEDABAD**

**FILING NO. :** \_\_\_\_\_

**CASE NO. : 1151 of 2011**

**In the Matter of**

Filing of the True-up for 2010-11 and Aggregate Revenue Requirement (ARR), for the FY 2012-13 for determination of SLDC Tariff under MYT Regulation Framework and Part VII (Section 61 to Section 64) of the Electricity Act, 2003 read with the relevant GERC Guidelines and Regulations till date, by the State Load Dispatch Centre under administration of Gujarat Energy Transmission Corporation Ltd. ('GETCO' or 'the Licensee') as the Transmission Licensee.

**And**

**In the Matter Of**

State Load Dispatch Centre

Gujarat Energy Transmission Corporation Ltd.,

Sardar Patel Vidyut Bhavan, Race Course,

Vadodara-390007

----- **Applicant**

**And**

**In the Matter of**

Long Term Open Access users or intra state entities (Generating Station/ Distribution licensee/ Transmission licensee/Captive Power plants) of State Transmission network, and/or generating station/distribution/transmission licensee falls within jurisdiction of SLDC-Gujarat for the purpose scheduling, accounting and monitoring.

**In the Matter Of**

1	Dakshin Gujarat Vij Company Ltd., Nana Varacha Road, Kapodra, Surat-Gujarat.
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2	Madhya Gujarat Vij Company Ltd., Sardar Patel Vidyut Bhavan, Race Course, Vadodara – 390007
3	Paschim Gujarat Vij Company Ltd., Laxmi Nagar, Nana Mava Road, Rajkot –Gujarat
4	Uttar Gujarat Vij Company Ltd., Vis Nagar Road, Mehsana-384001
5	Torrent Power Surat Electricity Company Ltd., Tilak-Medan, Station Road, Torrent House Surat
6	Torrent Power Ahmedabad Electricity Company Ltd., Electricity House, Lal Darwaja, Ahmedabad-380 009
7	Kandla Port Trust Ltd. Kandla , Gandhidham
8	Gujarat State Electricity Corporation Ltd, Sardar Patel Vidyut Bhavan, Race Course, Vadodara-390007
9	Gujarat Industries Power Company Ltd., - I P.O. Petrochemical - 391346, Dist.: Vadodara, Gujarat
10	Gujarat Industries Power Company Ltd., - II P.O. Petrochemical - 391346, Dist.: Vadodara, Gujarat
11	Gujarat State Energy Generation Ltd. Block No.15, 3rd Floor, Udyog Bhavan, Sector No.11, Gandhinagar- 382011  Gujarat State Energy Generation Ltd. Village Mora, Post Bhatha, Surat Hazira Road, Dist:Surat
12	Gujarat Industrial Power Corporation Ltd, Surat Lignite Power Plant, Village :Nani Naroli, Ta: Mangrol, Dist:Surat-394110
13	Gujarat Paguthan Energy Corporation Pvt. Ltd., 6th Floor, Chanakya, Off Ashram Road, Ahmedabad – 380009 .  Gujarat Paguthan Energy Corporation Pvt. Ltd. Village :Paguthan, Dist: Bharuch- 392015
14	Essar Power Limited, Essar House, 11, K.K.Marg, Mahalaxmi,Mumbai-400034
15	Gujarat Mineral Development Corporation, “Khanij Bhavan” Near University Ground, 132 Feet Ring Road, Vastrapura-380052

	Akrimota Lignite Thermal Power Station , Village :Nani Cher, Ta: Lakhpat District: Kutch, Gujarat.
16	Torrent Power Ltd. Torrent House, Off. Ashram Road, Ahemdedabad-380009 .  Torrent Power Ltd., 1147.50 Mw CCPP Sugan, Village : Akhikhhol, Ta:Kamrej, Dist: Surat-394155
17	Oil & Natural Gas Corporation Ltd, CPF-Gandhar-393010, Ankleshwar
18	Oil & Natural Gas Corporation Ltd, Hazira Plant, Surat-394518 Hazira
19	SALSteel Limited, Survey No.254, Paiki, Kidana– Bharpar Road, Village : Bharpara, Taluka: Gandhidham, Dist. Kutch, Gujarat
20	United Phosphorus Limited, 750-GIDC, Post Box No.9, Jhagadiya- 393110
21	Bhandar Power Ltd., 27 <sup>th</sup> KM Surat-Hazira Road, Hazira, Surat-394270
22	Reliance Industries Limited Makers Chambers - IV, Nariman Point, Mumbai 400 021
23	<b>Jindal Centre,</b> 12 Bhikaiji Cama Place, New Delhi 110066
24	Gallantt Metal Limited, 11, CROOKED LANE, SECOND FLOOR KOLKATA - 700 069
25	Hindalco Industries Ltd Century Bhavan, 3rd floor Dr. Annie Besant Road Worli Mumbai 400 030
26	Varrsana Ispat Everest House, 46C, Chowringhee Road, 15 th Floor, R.No. 15B, Kolkata 700 071, India
27	GFL, Dahej INOX Towers, Plot No. 17, Sector 16-A, Noida - 201301 U.P.,(India)
28	Mid India Power & Steel Limited Plot No. 332, New G.I.D.C, Phase II Mithirohar, Gandhidham. Kutch. Gujarat. India. 370201.

29	Essar Power Limited, 27 Kv Surat-Hazira Road, Hazira-394270.
30	J.K. Paper Ltd. 3 <sup>rd</sup> Nehru House, 4, Bahadur Shah Zafar Marg New Delhi – 110002
31	Adani Power Limited 10B, Sambhav Building Judges Bungalow Road, Bodakdev Ahmedabad - 380015

-----Respondents

#### Affidavit Verifying the Petition

Affidavit of Pitamber A. Patel Son of Shri Amubhai Patel aged about 56 years, residing at A2/3, Rishikesh Apartments, Near Anantpark Society, Vasana Road, Vadodara-390007 do hereby solemnly affirm and state as under :

1. I am the Chief Engineer of SLDC Gujarat Deponent in the above matter and I am fully aware of the facts mentioned in the Reply, hence competent to swear to this affidavit.
2. I have gone through the contents of Reply on behalf of the State Load Dispatch Centre, Respondent No. 1 and I say that the facts stated therein are based on the records of Respondent No.1 maintained in the normal course of Business.
3. The annexures to the Reply are true copies of their originals.

Applicant

#### VERIFICATION

I, the deponent above named do hereby verify that the contents of my above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Vadodara on this 29<sup>th</sup> day of November'2011

## **6. Annexures**

## 6.1 Annexure I – Summary Sheet

Name of the SLDC : State Load Dispatch Centre of Gujarat  
Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
Name of the Region : Western Region

(Rs. In Lacs)

Sl. No.	Particulars		Actual
			2010-11
1	Depreciation	Form-11	37.31
2	Interest on Loan	Form-11	47.66
3	Return on Equity	Annexure 3	34.76
4	Interest on Working Capital	Form-15	19.51
5	O & M Expenses		1082.49

Petitioner

## 6.2 Annexure II – Statement of Depreciation

Name of the SLDC : State Load Dispatch Centre of Gujarat  
Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
Name of the Region : Western Region

(Rs. In Lacs)

Particulars	Actual
	2010-11
Depreciation on Capital Cost	37.31
	<b>37.31</b>
<b>Depreciation on Additional Capitalization</b>	
Amount of Additional Capitalization	0.00
Depreciation Amount	0.00
<b>Details of FERV</b>	
Amount of FERV on which Depreciation Charged	0.00
Depreciation Amount	0.00
Depreciation recovered during the year	0.00
<b>Cumulative Depreciation</b>	<b>37.31</b>

Petitioner

### 6.3 Annexure III – Calculation of Return on Equity

Name of the SLDC : State Load Dispatch Centre of Gujarat  
Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
Name of the Region : Western Region

(Rs. In Lacs)

Sl. No.	Particulars	Actual
		2010-11
1	Opening Equity Capital	216.76
2	Addition during the year	63.02
3	Closing Equity	279.78
4	Total Average Equity	248.27
5	Rate of Return on Equity	14.00%
6	<b>Return on Equity</b>	<b>34.76</b>

Petitioner

### 6.4 Annexure IV – Calculation of Interest on Loan

Name of the SLDC : State Load Dispatch Centre of Gujarat  
Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
Name of the Region : Western Region

(Rs. In Lacs)

Sl. No.	Particulars	Actual
		2010-11
1	Opening Loans	257.50
2	Addition during Year	147.06
3	Increase / Decrease due to FERV	0.00
4	Increase / Decrease due to ACE	0.00
5	<b>Total</b>	<b>404.56</b>
6	Repayment During the Year	25.94
7	Net Closing Loans	378.62
8	Average Loans	318.06
9	Interest on Loans (a)	41.64
10	Other Interest Charges (b)	6.02
11	<b>Total Interest &amp; Finance Charges (a+b)</b>	<b>47.66</b>
12	Rate of Interest	10.998%

Petitioner

## 6.5 Annexure V – Calculation of Interest on Working Capital

Name of the SLDC : State Load Dispatch Centre of Gujarat  
Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
Name of the Region : Western Region

(Rs. In Lacs)

Sl. No.	Particulars	Actual
		2010-11
1	O & M Expenses	90.21
2	Maintenance & Spares	3.54
3	Receivables	86.40
4	<b>Total Working Capital</b>	180.15
5	Rate of Interest	11.75%
6	<b>Interest on Working Capital</b>	19.51

Petitioner

## 6.6 Annexure VI – Break-up of Employee Cost

Name of the SLDC : State Load Dispatch Centre of Gujarat  
Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
Name of the Region : Western Region

(Rs. In Lacs)

Sl. No.	Particulars	Actual
		2010-11
1	Salaries.	349.85
2	Overtime.	0.61
3	Dearness allowance & Dearness Pay.	154.54
4	Other allowances.	136.77
5	Bonus.	0.00
6	Medical Expenses Reimbursement.	17.62
7	Leave Travel Assistance.	2.05
8	Earned leave encashment.	1.91
9	Waival of O/s.HBA Loan & interest.	0.00
10	Death & accident compensation.	0.00
11	Payment under Workmen's Comp. Act.	0.00
12	Interim relief to staff.	0.00
9	Board's contri.Bombay Labour welfare Act.	0.00
14	EDLI - Board's contribution.	0.00
14	EDLI - Administration charges.	0.00
17	ESIS - Board's contribution.	0.00
10	Staff Welfare Expenses.	5.23
11	Terminal Benefits.	150.62
	<b>Total</b>	<b>819.20</b>

Petitioner

## 6.7 Annexure VII – Break-up of Administration & General Expenses

Name of the SLDC : State Load Dispatch Centre of Gujarat  
 Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
 Name of the Region : Western Region

(Rs. In Lacs)

Sl. No.	Particulars	Actual
		2010-11
1	Rates and Taxes.	0.02
2	Insurance.	0.00
3	Telephone, Postage, Telegram, Telex, Mobile Ch.	28.48
4	Legal Charges.	20.00
5	Other Professional fees and expenses.	3.49
6	Conveyance & Travel .	20.73
7	Books & Periodicals.	0.01
8	Printing & Stationery.	2.59
9	Expenses on Computer Billing & EDP Charges.	8.89
10	Xerox copy Charges	1.28
11	Electricity Charges.	39.15
12	Water Charges.	0.95
13	Maintenance to Tree Plantations.	0.00
14	Entertainment.	0.03
15	Expenses on Meetings & Conferences.	9.96
16	Miscellaneous Expenses.	4.18
17	Other Purchase Related Expenses.	1.38
<b>Total</b>		<b>141.14</b>

Petitioner

## 6.8 Annexure VIII – Break-up of Repair & Maintenance Exps.

Name of the SLDC : State Load Dispatch Centre of Gujarat  
 Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
 Name of the Region : Western Region

(Rs. In Lacs)

Sl. No.	Particulars	Actual
		2010-11
1	Plant and Machinery.	808.94
2	Buildings.	9.03
3	Civil Works.	0.07
4	Hydraulic Works.	0.00
5	Lines, Cable Network etc.	0.23
6	Vehicles.	0.00
7	Furniture, Fixtures.	3.29
8	Office Equipments.	1.79
<b>Total</b>		<b>823.35</b>

Petitioner

## 6.9 Annexure IX – Break-up of Depreciation

Name of the SLDC : State Load Dispatch Centre of Gujarat  
Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
Name of the Region : Western Region

(Rs. In Lacs)

Sl. No.	Particulars	Actual
		2010-11
1	Depreciation on Buildings	6.15
2	Depreciation on Hydraulic Works	0.60
3	Depreciation on Other Civil Works	0.00
4	Depreciation on Plant & Machineries	15.76
5	Depreciation on Lines & Cable Net Works	0.64
6	Depreciation on Vehicles	0.30
7	Depreciation on Furniture & Fixtures	2.21
8	Depreciation on Office Equipments	11.65
<b>Total</b>		<b>37.31</b>

Petitioner

**6.10 Annexure X – State Generation Capacity for the FY 2010-11**

**Name of the SLDC :** State Load Dispatch Centre of Gujarat  
**Name of the Transmission System :** Gujarat Energy Transmission Corporation Ltd.  
**Name of the Region :** Western Region  
**Generation 2010-11**

Sl. No.	Entity	Approved	Actual											
			April'10	May'10	June'10	July'10	August'10	September'10	October'10	November'10	December'10	January'11	February'11	March'11
1	GSECL	5,714.00	5,215.07	5,215.07	5,215.07	5,215.07	5,215.07	5,215.07	5,215.07	5,215.07	5,215.07	5,215.07	5,215.07	5,215.07
2	GIPCL	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00	145.00
3	GIPCL-II	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00
4	SLPP	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00
5	GSEG	507.00	156.10	156.10	156.10	156.10	156.10	156.10	156.10	156.10	156.10	156.10	156.10	156.10
6	GPEC	655.00	655.00	655.00	655.00	655.00	655.00	655.00	655.00	655.00	655.00	655.00	655.00	655.00
7	ESSAR	515.00	515.00	515.00	515.00	515.00	515.00	515.00	515.00	515.00	515.00	515.00	515.00	515.00
8	AKRIMOTA	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00
9	ARYAN COAL LTD	100.00	-	-	-	-	-	-	-	-	-	-	-	-
10	PIPAVAV JV CCGT	-	-	-	-	-	-	-	-	-	-	-	-	-
11	SUGEN MPP	1,147.50	1,147.50	1,147.50	1,147.50	1,147.50	1,147.50	1,147.50	1,147.50	1,147.50	1,147.50	1,147.50	1,147.50	1,147.50
12	TPAECL	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00
13	FIRM CAPTIVE	-	-	-	-	-	-	-	-	-	-	-	-	-
14	CAPTIVE	820.00	820.00	820.00	820.00	820.00	820.00	820.00	820.00	820.00	820.00	820.00	820.00	820.00
15	WIND FARM	2,435.00	1,782.31	1,791.01	1,808.01	1,850.73	1,871.73	1,894.43	1,894.43	1,910.93	1,916.93	1,947.68	1,966.43	2,094.30
14	Adani Power	-	-	-	-	-	990.00	990.00	990.00	990.00	1,320.00	1,320.00	1,980.00	1,980.00
	<b>Total</b>	<b>13,453.50</b>	<b>11,850.98</b>	<b>11,859.68</b>	<b>11,876.68</b>	<b>11,919.40</b>	<b>12,930.40</b>	<b>12,953.10</b>	<b>12,953.10</b>	<b>12,969.60</b>	<b>13,305.60</b>	<b>13,336.35</b>	<b>14,015.10</b>	<b>14,142.98</b>

**Petitioner**

## 6.11 Annexure XI – Allocation Capacity for the FY 2010-11

Name of the SLDC : State Load Dispatch Centre of Gujarat  
 Name of the Transmission System : Gujarat Energy Transmission Corporation Ltd.  
 Name of the Region : Western Region

Sl. No.	Entity	Approved	Actual											
			April'10	May'10	June'10	July'10	August'10	September'10	October'10	November'10	December'10	January'11	February'11	March'11
1	DGVCL	1,985.00	2,489.09	2,489.09	2,489.09	2,489.09	2,488.84	2,488.84	3,002.60	3,002.60	3,002.60	3,233.60	3,233.60	3,372.60
2	MGVCL	1,762.00	1,796.09	1,796.09	1,796.09	1,796.09	1,795.84	1,795.84	1,545.00	1,545.00	1,545.00	1,660.00	1,660.00	1,780.00
3	UGVCL	2,409.00	3,354.82	3,354.82	3,354.82	3,354.82	3,354.56	3,354.56	3,227.00	3,227.00	3,227.00	3,227.00	3,227.00	3,361.00
4	PGVCL	3,135.00	3,803.21	3,803.21	3,803.21	3,803.21	4,052.96	4,052.96	3,923.00	3,923.00	3,923.00	3,916.00	3,916.00	4,162.00
	<b>Total Discom</b>	<b>9,291.00</b>	<b>11,443.21</b>	<b>11,443.21</b>	<b>11,443.21</b>	<b>11,443.21</b>	<b>11,692.20</b>	<b>11,692.20</b>	<b>11,697.60</b>	<b>11,697.60</b>	<b>11,697.60</b>	<b>12,036.60</b>	<b>12,036.60</b>	<b>12,675.60</b>
5	GUVNL	3,125.00	-	-	-	-	-	-	-	-	-	-	-	-
6	GSFC Fibre	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
7	GSFC Polymer	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
8	GSFC Sikka	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
9	GSFC Vadodara	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00
10	GACL Vadodara	41.00	41.00	41.00	41.00	41.00	41.00	41.00	41.00	41.00	41.00	41.00	41.00	41.00
11	GAIL	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
12	ONGC Hazira	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
13	ONGC Ankleshwar	16.00	12.72	12.72	12.72	12.72	12.72	12.72	12.72	12.72	12.72	12.72	12.72	12.72
14	GACL Wheeling	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
15	United Phosphorus	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
16	ESSAR Steel Ltd	751.00	751.00	751.00	751.00	751.00	751.00	751.00	751.00	751.00	751.00	751.00	751.00	751.00
17	SAL Steel Ltd	14.00	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
18	NTPC Variav	1.00	-	-	-	-	-	-	-	-	-	-	-	-
19	TPAECL	900.00	-	-	-	-	-	-	-	-	-	-	-	117.50
20	TPSECL	400.00	573.75	573.75	573.75	573.75	573.75	573.75	573.75	573.75	573.75	463.00	463.00	463.00
21	Wind Farm Users	1,748.00	854.31	863.01	880.01	922.73	943.73	966.43	966.43	982.93	988.93	1,019.68	1,038.43	1,043.30
22	Heavy Water Plant	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
23	KPTL		8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	<b>Total</b>	<b>16,403.00</b>	<b>13,813.49</b>	<b>13,822.19</b>	<b>13,839.19</b>	<b>13,881.91</b>	<b>14,151.90</b>	<b>14,174.60</b>	<b>14,180.00</b>	<b>14,196.50</b>	<b>14,202.50</b>	<b>14,461.50</b>	<b>14,480.25</b>	<b>15,241.63</b>

## 6.12 Annexure XII – Revised CAPEX Plan for the FY 2012-13

Name of the SLDC : State Load Dispatch Centre of Gujarat  
Name of the Transmission System : Gujarat Energy Transmission Corp. Ltd.  
Name of the Region : Western Region

(Rs. In Lacs)

Sl . No.	Particulars (Rs. In Lacs)	2012-13	
		Approved	Revised
1	land Acquisition Cost	20	20
2	Augmentation/Upgradation of Existing System	145	375
3	Strengthening of Communication Channels	50	1150
4	Additional System / Software Planning	40	887
5	IT Infrastructure	20	20
6	SLDC Building Development	120	50
7	Office Equipment	50	50
8	Staff Recreation Facilities	15	0
	<b>Total Capital Expenditure</b>	460	2552