

BEFORE
JOINT ELECTRICITY REGULATORY COMMISSION
GURGAON

PETITION
FOR
APPROVAL OF
TRUE-UP FOR FY 2011-12 AND FY 2012-13, ANNUAL
PERFORMANCE REVIEW OF FY 2015-16 & FY 2016-17
AND TARIFF DETERMINATION FOR FY 2017-18
BY



ELECTRICITY DEPARTMENT
Government of GOA

DECEMBER 2016

BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA, & UNION TERRITORIES, GURGAON

Filing No.....

Case No.....

IN THE MATTER OF: Petition for approval of True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination proposal for FY 2017-18 for the Electricity Department of Goa under Section 45, 46, 61, 62, 64 and 86 of the Electricity Act, 2003

AND

IN THE MATTER OF: Electricity Department, Government of Goa,
VidyutBhavan, Panaji,

Goa

.....Petitioner

Electricity Department, Government of Goa (hereinafter referred to as "EDG"), files petition for approval of True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination proposal for FY 2017-18 under Section 45, 46, 61, 62, 64 and 86 of the Electricity Act, 2003.

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AND

IN THE MATTER OF: Electricity Department, Government of Goa

VidyutBhavan, Panaji,

Goa

.....Petitioner

AFFIDAVIT VERIFYING THE PETITION

I, Shri L.D.Kolveker, son of Shri Dattarao Kolvekar aged 58 years, the deponent named above do hereby solemnly affirm and state on oath as under:-

1. That I am Chief Electrical Engineer and Head of Electricity Department, Government of Goa and am authorised to sign and submit the said petition, and am acquainted with the facts deposed to below.
2. I say that on behalf of EDG, I am now filing this Petition under The Electricity Act, 2003, Petition for approval of True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination proposal for FY 2017-18 for the Electricity Department of Goa under Section 45, 46, 61, 62, 64 and 86 of the Electricity Act, for its Licensee Area.

3. I further say that the statements made and financial data presented in the aforesaid Petition are as per records of the Department and on the information received from the concerned officials and believe that to be true to the best of my knowledge.
4. Further, to my knowledge and belief, no material information has been concealed in the aforesaid Petition.

sd/-
The Electricity Department,
Government of Goa
DEPONENT

Place: Panaji, Goa

Dated: 23/12/2016

VERIFICATION

I, shivprasad Manerker Advocate and Notary having office at Panaji-Goa, do hereby declare that the person making this affidavit is known to me through the perusal of records and I am satisfied that he is the same person alleging to be deponent himself.

Advocate

Solemnly affirmed before me on this 23rd day of December 2016 by the deponent who has been identified by the aforesaid Advocate. I have satisfied myself by examining the deponent that he understood the contents of the affidavit which has been read over and explained to him. He has also been explained about section 193 of Indian Penal Code that whoever intentionally gives false evidence in any of the proceedings of the Commission or fabricates evidence for purpose of being used in any of the proceedings shall be liable for punishment as per law.

BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA, & UNION TERRITORIES, GURGAON

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AND

IN THE MATTER OF: Electricity Department, Government of Goa

Vidyut Bhavan, Panaji,

Goa

.....Petitioner

PETITIONER, UNDER SECTIONS 45, 46, 61, 62 AND 64 OF THE ELECTRICITY ACT, 2003 FILES FOR INITIATION OF PROCEEDINGS BY THE HON'BLE COMMISSION FOR DECIDING ON THE MATTERS CONCERNING THE PETITION FOR APPROVAL OF TRUE-UP OF FY 2011-12 & FY 2012-13, APR FOR FY 2015-16 & FY 2016-17 AND TARIFF DETERMINATION PROPOSAL FOR FY 2017-18 UNDER SECTION 45, 46, 61, 62, 64 AND 86 OF THE ELECTRICITY ACT, 2003 FOR ELECTRICITY DEPARTMENT OF GOA (HEREIN AFTER REFERRED TO AS "EDG") FOR FY 2017-18.

The Petitioner respectfully submits as under: -

1. The Petitioner, The Electricity Department – Goa (EDG) has been allowed to function as Distribution Utility for the State of Goa.
2. Pursuant to the enactment of the Electricity Act, 2003, EDG is required to submit its Annual Revenue Requirement (ARR)/ Multi-year Tariff (MYT) Petition and Tariff Petition as per the procedures outlined in section 61, 62 & 64 of EA 2003, and the governing regulations thereof.

3. EDG hereby submits the present Petition for approval of True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination proposal for FY 2017-18 based on the principles outlined in the Tariff Regulations 2009 and MYT Regulations 2014, notified by the Hon'ble Commission.
4. EDG prays to the Hon'ble Commission to admit the attached petition for True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination proposal for FY 2017-18 and would like to submit that:

Prayers to the Commission:

- A. The petition provides, inter-alia, EDG's approach for formulating the present petition, the broad basis for projections used, performance of EDG in the recent past, and certain issues impacting the performance of EDG in the Licensed Area.
- B. Broadly, in formulating the APR for FY 2015-16 & FY 2016-17, the principles specified by the Joint Electricity Regulatory Commission in the notified (Terms and Conditions of Tariff) Regulations 2009 (Tariff Regulations) has been considered as the basis.
- C. Formulating Aggregate Revenue Requirement for the control period of FY 2016-17 based on the principles specified by MYT Regulations 2014 and approved Business Plan.
- D. In order to align the thoughts and principles behind the ARR/MYT and Tariff Petition, EDG respectfully seeks an opportunity to present its case prior to the finalization of the Tariff Order. EDG believes that such an approach would go a long way towards providing a fair treatment to all the stakeholders and may eliminate the need for a review or clarification.

The petitioner respectfully prays that the Hon'ble Commission may:

- a) Accept and admit the petition for True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination for FY 2017-18 which is in line with the principles laid by Joint Electricity Regulatory Commission contained in MYT Regulations 2014 and Tariff Regulations 2009;
- b) Approve the total recovery and revenue gap of Final True up of FY 2011-12 and FY 2012-13, Provisional Annual Performance Review of FY 2015-16, Annual

Performance Review for FY 2016-17 and Aggregate Revenue Requirement for FY 2017-18 and other claims as proposed by EDG.

- c) Approve the proposed cumulative Revenue Gap till FY 2017-18 amounting to Rs. **149 Crores** on provisional basis and the revenue gap as may be approved by the Hon'ble Commission during the process of finalising tariff petition is proposed to be met from the Budgetary support by Govt of Goa. It is submitted that Budgetary Support is limited to this amount and any further revenue gap at a later date when petition for true-up is filed based on actual accounts / figures, it would be dealt appropriately at that time.
- d) To consider the Tariff Design Philosophy and approve the proposed changes in Tariff Schedule (rationalisation of tariff categories & changes in applicability clauses) for FY 2017-18.
- e) Approve the Expected Revenue from Charges (ERC) for FY 2017-18 and the consolidated gap till FY 2017-18.
- f) The delay in filing this MYT Petition may please be condoned and the Hon'ble Commission is requested to accept this Petition and process the same.
- g) Pass suitable orders with respect to True-up of FY 2011-12 and FY 2012-13, APR for FY 2015-16 and FY 2016-17 and Tariff Determination for 2017-18 for the expenses to be incurred by ED - Goa for serving its consumers;
- h) To allow cost related to past interest on security deposit into ARR of FY 2017-18.
- i) Grant approval for the schedule of tariff, charges for services and schedule of charges as made in the petition for FY 2017-18.
- j) Grant any other relief as the Hon'ble Commission may consider appropriate.
- k) The petitioner craves leave of the Hon'ble Commission to allow further submission, addition and alteration to this petition as may be necessary from time to time.
- l) Condone any inadvertent omissions/errors/shortcomings and permit EDG to add/change/modify/alter this filing and make further submissions as may be required at a future date.

m) 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.

Electricity Department, Government of Goa

Petitioner

Place: Panaji

Dated: 23rd December 2016

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LIST OF ABBREVIATIONS

S. No	Abbreviations	Descriptions
1	A&G	Administrative and General
2	ABT	Availability Based Tariff
3	ACoS	Average Cost of Supply/ Service
4	AMI	Automated Metering Infrastructure
5	AMR	Automatic Meter Reading
6	APR	Annual Performance review
7	ARR	Aggregate Revenue Requirement
8	CAGR	Compound Annual Growth Rate
9	CAPEX	Capital Expenditure
10	CEA	Central Electricity Authority
11	CERC	Central Electricity Regulatory Commission
12	CGS	Central Generating Station
13	CUF	Capacity Utilization Factor
14	CWIP	Capital work in progress
15	DELP	DSM based Efficient Lighting Programme
16	Discom	Distribution Companies
17	DSM	Demand Side Management
18	EA Act	The Electricity Act 2003
19	EDG	Electricity Department, Government of Goa
20	EC	Energy Charges
21	EHT	Extra High Tension
22	FC	Fixed Charges
23	FOR	Forum of Regulators
24	FY	Financial Year
25	GFA	Gross Fixed Assets
26	GoI	Government of India
27	HT	High Tension
28	JERC	Joint Electricity Regulatory Commission
29	KV	Kilo Volt
30	kVA	Kilo Volt Ampere
31	kVAh	Kilo Volt Ampere Hour
32	kW	Kilo Watt
33	kWh	Kilo Watt Hour
34	LT	Low Tension
35	MNRE	Ministry of New and Renewable Energy
36	MOD	Merit Order Despatch

Petition for True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination for FY 2017-18

S. No	Abbreviations	Descriptions
37	MoP	Ministry of Power
38	MOU	Memorandum of Understanding
39	MU	Million Units (Million kWh)
40	MVA	Mega Volt Ampere
41	MW	Mega Watt
42	MYT	Multi Year Tariff
43	NFA	Net Fixed Assets
44	NPCIL	Nuclear Power Corporation of India Limited
45	NTP	National Tariff Policy
46	NTPC	National Thermal Power Corporation
47	O&M	Operation & Maintenance
48	PLR	Prime Lending Rate
49	POC	Point of Connection
50	PPA	Power Purchase Agreement
51	PV	Photo voltaic
52	R&M	Repair and Maintenance
53	R-APDRP	Restructured Accelerated Power Development and Reforms Programme
54	REC	Renewable Energy Certificate
55	ROE	Return on Equity
56	RPO	Renewable Purchase Obligation
57	Rs	Rupees
58	SBI	State Bank of India
59	SECI	Solar Energy Corporation of India
60	SLDC	State Load Dispatch Centre
61	T&D	Transmission and Distribution
62	TOD	Time of Day
63	UI	Unscheduled Interchange Charges
64	w.e.f	With effect from
65	WPI	Wholesale Price Index

CHAPTER 1.INTRODUCTION

1.1 Preamble

1.1.1 The Hon'ble Commission had notified the Joint Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2009 and Multi Year Distribution Tariff Regulations 2014. In line with the same, EDG submits this petition for Truing up for FY 11-12 & FY 12-13 as per the provisions of the Tariff Regulations, 2009 and APR for FY 2015-16 & FY 2016-17 as well as tariff Proposal for FY 2017-18.

1.2 Background: Electricity Department of Goa

1.2.1 The Electricity Department was formed in January 1963 under the Government of Goa, Daman & Diu. It is the only licensee operating in the State of Goa for transmission and distribution of Electrical Energy. The Electricity Department of Goa does not have its own generation. The majority of the power requirement for the State of Goa is met through its share from Central Sector Power Stations of the National Thermal Power Corporation as allocated by the Central Government.

1.2.2 The peak demand of Goa during FY 2015-16 was around 583 MW. The Energy Deficit and the peak deficit as per CEA report for FY 2015-16 for the State of Goa are 0% (1 MU) and 5.3% (31 MW) respectively. The total firm allocation of power from central sector is approx **385.47MW** in FY 2015-16. In addition, the department also purchases power from Co-generation within State, Open Market, Power Exchanges etc.

A. POWER PROCUREMENT

1.2.3 The firm allocation and unallocated share of power from Central Sector Stations is provided in the table below:

Table 1-1: Present Power Allocation of Central Sector Stations (WR+SR)

Generating Station	Peak Hours (1800 to 2200 hours)		Off-Peak Hours (0000 to 1800 & 2200 to 2400 hours)	
	Share from Firm Allocation (MW)	Share from Unallocated Allocation (MW)	Share from Firm Allocation (MW)	Share from Unallocated Allocation (MW)
KSTPS	210.00	0.55	210.00	2.20
VSTPS-I	35.00	0.49	35.00	1.97
VSTPS-II	12.00	0.37	12.00	1.49
VSTPS-III	10.00	0.37	10.00	1.49

Generating Station	Peak Hours (1800 to 2200 hours)		Off-Peak Hours (0000 to 1800 & 2200 to 2400 hours)	
	Share from Firm Allocation (MW)	Share from Unallocated Allocation (MW)	Share from Firm Allocation (MW)	Share from Unallocated Allocation (MW)
KGPP	-	12.37	-	12.38
GGPP	-	12.63	-	12.64
SIPAT - II	10.00	0.36	10.00	1.41
KAPP	15.00	0.19	15.00	0.75
TAPP-3 & 4	11.00	0.46	11.00	1.83
KSTPS-7	4.50	0.26	4.50	1.04
SIPAT Stage-I	20.00	1.04	20.00	4.12
VSTPS-IV	11.20	0.52	11.20	2.08
VSTPS-V	5.18	0.26	5.18	1.04
MSTPS - I	11.20	0.52	11.20	2.08
Total - WR	355.08	30.42	355.08	46.51
RSTPS - SR	100.00		100.00	
RGPPL	19.67		19.67	
Total (WR + SR)	474.75	30.42	474.75	46.51

* - Power from RGPPL is not available due to technical minimum load requirement for operation which is not met as MSEDCL being principle beneficiary is not scheduling the power.

1.2.4 As can be seen, more than 75% demand of EDG is met from three major sources viz KAPP, KSTPS and RSTPS. If there is any forced outage/ event in any of these power stations, it severely affects power position of EDG and it needs to resort to short term power procurement from Traders & UI Pool to the extent of permissible limit and grid frequency norms.

1.2.5 EDG also has arrangement of power purchase from three Co-generation Power Plants in the State:

- Goa Energy Private Limited for 14-21 MW
- Goa Sponge and Power Limited for 3 MW
- Vedanta Ltd. (Erst while Sesa Sterlite) for minimum 2 MW

1.2.6 Over and above this, EDG has been procuring power from the Renewable Sources whereby 6 MW Solar Power is procured from NVVNL (to meet back log of RPO from FY 2010-11 to FY 2014-15) and 25 MW from SECIL.

1.2.7 Apart from this, EDG has procured Non-Solar power of 10 MW Hydel Power from

NVVNL plus procurement of REC for FY 2015-16 and for FY 2016-17, EDG has issued an LOI in H2 to M/s NVVNL (Date: 9th November 2016) at Rs. 4.49 per kWh (At Goa Periphery) of Wind power from Southern Region to meet Non Solar RPO for the year FY 2016-17. However, this was further revised by Letter dated 14th December 2016 to meet the entire quantum of Non-Solar RPO by 31st March 2017.

B. DISTRIBUTION

1.2.8 The Electricity Department of Goa caters to around 6 Lacs consumers with an annual energy consumption of approx 3500 MUs. The Consumers of the Electricity Department of Goa are classified as under:

- Domestic (30% of consumption)
- Commercial (13% of consumption)
- Industrial (54% of consumption)
- Agriculture (2% of consumption)
- Public Lighting (1% of consumption)

1.2.9 As seen from the above classification, the energy consumption of industrial consumers is the highest (54%) amongst all these categories.

1.2.10 EDG takes up efficient measures to provide world class services to the consumers and hence utilizes more capital investment on the system, more number of employees for better operation and maintenance facilities and efficient redressal of consumer complaints.

1.3 Measures to Increase Power Availability

1.3.1 Allocations of power have been obtained from the Ministry of Power (MoP) against the demand made by the State from Central Sector Generating Stations;

- Allocation of 200 MW has been decided by Secretary (Power), Ministry of Power, Government of India, from the Ultra Mega Project of Chhattisgarh Surguja Power Ltd. (Erstwhile Akaltara) in Chhattisgarh and for which as a commitment advance a sum of ₹ 2.00 Crores has been paid.
- For meeting the peak hour power requirement, power is obtained to some extent from the U.I (Unscheduled interchanges) pool depending upon permissible grid frequency and also from traders/ open market.

1.3.2 The power allocation made by the Ministry of Power for some of the upcoming power sectors of central generating companies is as under:

Table 1-2: Future Power Allocation from MOP (MW)

Sr.	Power Projects	Capacity
1	Subansari (lower)	8
2	Kameng	2
3	Kakrapar Atomic Power Project (Unit 3 & 4)	15.68
4	Mauda I – already commissioned	5.6
5	Vindhyachal IV – already commissioned	5.6
6	Mauda Stage – II	14.50

1.3.3 In addition to the power allocation from Table 2-3, the State of Goa has executed the PPAs from following central sector power projects:

Table 1-3: PPA Executed with Central Sector Power Projects

Sr. No.	Power Projects	Installed Capacity
1	Vindhyachal V	500 MW
2	Lara STPP – I & II	4000 MW
3	Barh – II	1320 MW
4	Solapur TPP	1320 MW
5	Khargone STPP	1320 MW
6	Gadarwara STPP	2640 MW
7	Dhuvaran STPP	1980 MW

1.4 Approach for Present Filings

1.4.1 Under the provisions of Electricity Act, 2003, Licensee is required to submit its ARR and Tariff Petition as per procedures outlined in section 61, 62 and 64 of EA 2003, and the governing regulations of JERC of the relevant years thereof.

1.4.2 In exercise of powers conferred on it under Section 61 read with Section 181 of the Electricity Act, 2003 (36 of 2003) and all other powers enabling it in this behalf, the JERC for the State of Goa and Union Territories has laid the MYT Regulations 2009 with effect from 9th February 2010.

1.4.3 The Hon’ble Commission had notified the Joint Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2009 and JERC (Multi Year Distribution Tariff) Regulations, 2014. The Hon’ble Commission has notified the JERC (Multi Year Distribution Tariff) (First Amendment) Regulations, 2015 on 10th August, 2015.

1.4.4 In line with the Tariff Regulations, 2009, EDG has been filing the True-up petitions for FY 2011-12 and FY 2012-13, for consideration of the Hon'ble Commission in the formats laid down for providing information. Also, based on the Tariff Order as approved by the Hon'ble Commission on 18th April 2016, for MYT Control Period for FY 2016-17 to FY 2018-19, EDG is hereby submitting the Annual Performance Review of FY 2015-16 and FY 2016-17 and the tariff determination proposal for FY 2017-18 in line with the Tariff Regulations, 2014.

1.4.5 Considering that the FY 2015-16 has been completed and the accounts finalisation is under process, EDG also submits the provisional figures for approval of the Hon'ble Commission.

1.4.6 The excerpt of the relevant Regulations as per Clause 12.1 is produced below:

"The Tariff Application shall also contain tariff proposals so as to fully cover the gap between the expected aggregate revenue at the prevalent tariff and the expected cost of services including schemes for reduction in loss levels and other efficiency gains to be achieved.

A set of performance in which the integrated utility has to file Tariff Application is enclosed (Information to be furnished in Formats 1 to 28).

..... "

1.4.7 As specified in the Tariff Regulations, the Hon'ble Commission shall undertake the True-up exercise of the Licensee by considering variations between the approved and actual components of the ARR as per the actual sale of electricity, income and expenditure for the relevant year in the control period.

1.4.8 As per the directions provided by the Hon'ble Commission in the Tariff Order dated 18th April 2016, EDG was required to file the True-up Petition for the Financial Year, 2011-12 and FY 2012-13 by 30th June 2016 and for FY 2013-14 and FY 2014-15 with the current petition. However there has been a delay in filing due to reasons as discussed below and letter requesting the Hon'ble Commission for allowing to file the true-up petition of FY 2011-12 and FY 2012-13 was submitted on 18th October 2016.

1.4.9 Accordingly, EDG is filing this True-Up Petition for the years FY 2011-12 and FY 2012-13 based on the actual performance during the year. However, for FY 2013-

14 and FY 2014-15, the accounts preparation is still under process and request the Hon'ble Commission to condone the delay and allow the petitioner to submit the true-up petition along with the next petition.

1.4.10 The applicable tariff formats in line with the Tariff Regulations 2009 and 2015 are enclosed as Annexure 1 of the said petition.

1.5 Applicable Provision of Law

1.5.1 The relevant clause of the Regulations to carrying out the true-up of the relevant years is reproduced as under:

"8. Review and Truing Up

(1) The Commission shall undertake a review along with the next Tariff Order of the expenses and revenues approved by the Commission in the Tariff Order. While doing so, the Commission shall consider variations between approvals and revised estimates/pre-actuals of sale of electricity, income and expenditure for the relevant year and permit necessary adjustments/ changes in case such variations are for adequate and justifiable reasons. Such an exercise shall be called 'Review'.

(2) (i) After audited accounts of a year are made available, the Commission shall undertake similar exercise as above with reference to the final actual figures as per the audited accounts. This exercise with reference to audited accounts shall be called 'Truing Up'.

(ii) The Truing Up for any year will ordinarily not be considered after morethan one year of 'Review'.

(3) The revenue gap of the ensuing year shall be adjusted as a result of reviewand truing up exercises.

(4) While approving such expenses/revenues to be adjusted in the future years as arising out of the Review and / or Truing up exercises, the Commission may allow the carrying costs as determined by the Commission of such expenses/revenues. Carrying costs shall be limited to the interest rate approved for working capital borrowings.

(5) For any revision in approvals, the licensee would be required to satisfy the Commission that the revision is necessary due to conditions beyond its control.

(6) In case additional supply is required to be made to any particular category,the

licensee may, any time during the year make an application to the Commission for its approval. The application will demonstrate the need for such change of consumer mix and additional supply of power and also indicate the manner in which the licensee proposes to meet the cost for such change of consumer mix and additional supply of power.

(7) The Commission may consider granting approval to such proposals provided the cost of additional supply is ordinarily met by the beneficiary category.”

1.6 Petition Structure

1.6.1 The Petition includes the following Chapters:

- a) **Section 1** contains executive summary of the Petition
- b) **Section 2** contains introduction, background and overall approach to filing of the Petition
- c) **Section 3** contains True-up for FY2011-12 & FY 2012-13
- d) **Section 4** contains Provisional True-up for FY 2015-16
- e) **Section 5** contains Annual Performance Review of FY 2016-17
- f) **Section 6** contains ARR for FY 2017-18
- g) **Section 7** contains Treatment of Revenue Gap
- h) **Section 7** contains Tariff Determination for FY 2017-18
- i) **Section 8** contains Tariff Proposal
- j) **Section 9** contains determination of charges related to Open Access
- k) **Section 10** contains EDG’s compliance to Commission’s Directives
- l) **Section 11** contains EDG’s prayers to the Hon’ble Commission

CHAPTER 2.OVERALL APPROACH FOR PRESENT FILING

The Hon'ble Commission had notified the Joint Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2009 in 9th February 2010 and JERC (Multi Year Distribution Tariff) Regulations, 2014. The Hon'ble Commission has notified the JERC (Multi Year Distribution Tariff) (First Amendment) Regulations, 2015 on 10th August, 2015.

In line with the same, ED – Goa has been filing the True-up and ARR petitions for consideration of the Hon'ble Commission in the formats laid down for providing information relating to past, present and future performance.

2.1 Truing up for FY 2011-12 and FY 2012-13

2.1.1 As specified in the Tariff Regulations, the Hon'ble Commission shall undertake the truing-up exercise for the previous year based on audited accounts. EDG submits that the finalisation of audited accounts for FY 2011-12 and FY 2012-13 has been completed, however, the CAG certificate for FY 2012-13 is in process and yet to be issued. EDG request the Hon'ble Commission that the EDG Certificate will be submitted subsequently during the proceeding and the said petition may be admitted for FY 2012-13 for True-up. Accordingly, EDG is the true-up petition for the FY 2011-12 & FY 2012-13. The said audited accounts are enclosed as Annexure 2 of this Petition.

2.2 Truing up for FY 2013-14 and FY 2014-15

2.2.1 EDG submits that it is in process of finalisation of audited accounts for FY 2013-14 and FY 2014-15. EDG shall approach the Hon'ble Commission for truing-up at a later date when audited accounts are available. However at present the approved figures are considered for ARR & tariff petition exercise propose in next chapter.

2.3 Provisional Truing up for FY 2015-16

2.3.1 EDG submits that at present the provisional figures are available for FY 2015-16 and the finalisation of accounts is under process. Based on the provisional figures, EDG is submitting the provisional actual figures of FY 2015-16 for ARR & treatment of Revenue gap proposed in next chapter.

2.4 Annual Performance Review for FY 2016-17

2.4.1 As specified in the Tariff Regulations, the Hon'ble Commission shall undertake the Annual Performance Review by considering variations between the approved and revised estimates/pre-actuals of sale of electricity, income and expenditure for the relevant year.

2.4.2 Accordingly, ED – Goa is filing this Annual Performance Review petition for the year FY 2016-17 based on the actual performance during the 1st half of the year and the revised estimates for the second half of the year.

2.5 Annual Revenue Requirement and Tariff Petition for FY 2017-18

2.5.1 The Hon'ble Commission has already approved ARR for FY 2017-18 in its tariff Order dated 18th April 2016. EDG is filing the petition for the tariff determination of FY 2017-18 considering the ARR as approved by the Hon'ble Commission in the said tariff order. Accordingly, the resultant cumulative gap from True-up of FY 2011-12 to FY 2016-17 except for FY 2013-14 and FY 2014-15, will be ascertained in the said petition.

2.5.2 However gap of FY 2011-12 and FY 2012-13 is to be backed through budgetary Support as committed by Government of Goa and for FY 2013-14, FY 2014-15 and FY 2015-16, since accounts are not yet finalised and audited, therefore the true up petition will be filed separately.

2.5.3 Subsequently only the gap of FY 2016-17 and the revenue gap considering the difference between the revenue from existing tariff and the ARR as approved by the Commission for FY 2017-18, has been sought under determination of Tariff Proposal for FY 2017-18 in the said petition.

2.6 Impact of UDAY

2.6.1 The Central Government has implemented Ujwal DISCOM Assurance Yojana (UDAY) for the financial turnaround and revival package for electricity distribution companies of India (DISCOMs) with the intent to find a permanent solution to the financial issues that the power distribution is in. The scheme comprises four initiatives - improving operational efficiencies of Discoms, reduction of cost of power, reduction in interest cost of Discoms and enforcing financial discipline on Discoms through alignment with state finances.

2.6.2 Goa has participated and signed MoU on 16th June 2016 with trajectory of Operational efficiencies to be achieved in FY 2016-17 to FY 2018-19. However, there was no proposal for restructuring of loan and therefore, there will be no impact on the financial cost in ARR. However, EDG submits that the impact related to operational efficiencies are not considered in the said petition and will be considered at the time of True-up of the respective years.

CHAPTER 3. FINAL TRUING UP OF FY 2011-12 AND FY 2012-13

3.1 Preamble

3.1.1 This section outlines the performance of Goa Electricity Department (EDG) for FY 2011-12 and FY 2012-13. EDG submits that the Hon'ble Joint Electricity Regulatory Commission after undertaking a thorough analysis had issued the ARR Order for Financial Year 2011-12 on 27th June 2012 and APR order for 2012-13 on 31st March 2013. In the Order issued by JERC for ARR for 1st MYT control period (FY 2016-17 to FY 2018-19) on 18th April 2016, the Hon'ble Commission has directed EDG to expedite the preparation of the accounts on commercial principles and audit thereof for FY 2011-12, FY 2012-13, FY 2013-14, FY 2014-15 and FY 2015-16. Also, the Hon'ble Commission directed EDG to file the true-up Petitions for FY 2011-12 and FY 2012-13 by 30th June 2016. Since there is delay in filing petition for True-up, EDG has requested commission on 18th October 2016 for Condonation of delay in filing the True up petition for FY 2011-12 and FY 2012-13 and filing along with MYT petition by 30th November 2016. However, on 30th November 2016, EDG has requested an extension for filing of Tariff Petition and seek condonation of delay due to uncontrollable reasons.

3.1.2 Accordingly, the final truing up of FY 2011-12 and FY 2012-13 is submitted by comparing actual audited figures for the respective years with those approved by Hon'ble Commission for FY 2011-12 and FY 2012-13 vide tariff order dated 27th June 2012 and order on review of APR for FY 2012-13 on 31st March 2013 respectively. The Audited balance sheet for both the years i.e. FY 2011-12 and FY 2012-13 is enclosed as Annexure 2 of this petition.

3.1.3 It is submitted to the Hon'ble Commission that the financial accounts from FY 2011-12 onwards has been maintained on the accrual basis and the adjustment related to transition from cash to accrual method has been made in the accounts in the FY 2011-12.

3.1.4 This chapter summarizes each of the components of ARR for FY 2011-12 and FY 2012-13 thereby working out the revenue gap for the respective financial years.

3.2 Energy Sales

3.2.1 The total actual sales of EDG for FY 2011-12 and FY 2012-13 are 2,880 MU's and 2,925 MU's respectively. The category wise actual and approved sales for FY 2011-12 and FY 2012-13 are shown in the table below.

Table 3-1:Energy Sales (MUs) for FY2011-12 and FY 2012-13

Sr.No	Category of Consumer	FY11-12		FY12-13	
		Approved by Commission	Actuals	Approved by Commission	Actuals
	A. LOW TENSION SUPPLY	1,148	1,151	1,173	1,196
1	(a) LTD/Domestic	696	752	828	797
	(b) LTD/L.I.G.	4	8	2	7
	(c) LTD Domestic Mixed	2	3	5	4
2	LTC/Commercial	305	249	216	251
3	(a) LTP/Motive Power	92	78	83	75
	(b) LTP Mixed (Hotel Industries)	6	6	5	5
	(c) LTP Ice Manufacturing	-	7	-	7
4	LTAG/Agriculture	10	14	16	13
5	(a) LTPL (Public lighting)	31	31	15	33
6	LTPWW/Public Water works	2	3	2	2
	B. HIGH TENSION SUPPLY	1,584	1,711	1,698	1,709
7	HT (Mixed)	145	129	281	115
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	480	461	490	526
9	HTI Industrial	577	643	596	640
10	HTAG (Agriculture)	4	7	5	6
11	EHTI (Industrial)	169	171	139	132
12	HT P.W.W. & Sewage system	117	139	99	140
13	HT. M.E.'s Defence Estt.	40	25	34	25
14	HTI (Steel Rolling)	47	121	47	64
15	HTI / IT High Tech	5	6	7	41
16	HTI/Ice Manufacturing	1	0	-	0
17	Sale from EDG to GSPL (Div. VII)		9	-	5
18	HTI Hotel Industry				14
	C. TEMPORARY SUPPLY	14	18	15	20
19	(a) L.T. Temporary	14	18	14	20
	(b) H.T. Temporary	-	0	1	1
	Total	2,746	2,880	2,886	2,925

3.2.2 It is requested to Hon'ble Commission to approve the actual sales of FY 2011-12 and FY 2012-13 as stated in the table above.

3.3 Intra-state& Inter State Transmission& Distribution Loss

3.3.1 EDG has submitted 16.21%and4.83%as the Intra State T&D Loss and Inter State Loss respectively for FY 2011-12 as compared to that approved by Hon'ble Commission at 13.48% and 4.31% Intra State T&D Loss and Inter State Loss respectively. It is submitted to the Hon'ble Commission, that the accounting in the FY 2011-12 has witness a transitional change from Cash to accrual method which resulted into change in energy accounting with regards to billing also. Also, National Tariff Policy, 2006 allows a suitable transition framework to be provided for the licensees by SERC to reach the desired levels of service as quickly as possible. Therefore, it is requested to approve the said T&D Loss due to such change in transition period.

3.3.2 Also for FY 2012-13 the Intra State T&D Loss and Inter State Loss submitted is

13.58% and 4.57% respectively. The Power Scheduled from the SR originates from Ramagundam Periphery, which is located in Andhra Pradesh. Hence, the power which shall be made available at Goa periphery is subjected to substantial amount of losses viz Intra State Loss of Andhra Pradesh, Inter State Losses of SR & WR. Further, there was a Grid Diversion for a period of 6 months due to KEB Ckts Breakdown and PP outages; hence there was an additional loss in the energy available at the Goa Periphery in the first half of FY 2012-13 resulting in higher inter State loss.

3.3.3 EDG while computing Energy balance for entire FY 2011-12 & FY 2012-13 has considered actual of UI overdrawal/ under drawal, purchase of traders, sale to exchange etc.

Table 3-2: Energy Balance for FY 2011-12 & FY 2012-13

Sr. No.	Item	FY11-12 Approved (MUs)	FY11-12 Audited (MUs)	FY12-13 Approved (MUs)	FY12-13 Audited (MUs)
1	Energy Input at Goa Periphery	3,779	3,195	3,204	3,199
2	Total Power Scheduled/ Purchased at Goa Periphery			-	-
	Total Schedule Billed Drawal - CGS	3,129	3,421	3,311	3,351
	Add: Overdrawal / purchase from Traders	691	-	81	114
	Add: Power purchase from NVVN	315	315	-	21
	Less: Underdrawal		167	-	94
	Less: Power diverted to Exchange	189	189	20	39
	Less: Banking Power	24	24	-	-
	Total	3,922	3,357	3,372	3,352
3	PGCIL Losses - MUs	142.92	162	168	153
	PGCIL Losses - % *	3.64%	4.83%	4.98%	4.57%
4	Total Power Purchased within Goa State			-	-
	Add: Co-generation	119	128	93	72
	Add: Independent Power Producers (IPP)	120	114	-	114
	Total	239	242	93	186
5	Total Power Purchase availability after PGCIL Losses		3,437		3,385
	Less: Retail Sales to Consumers	2,746	2,880	2,885	2,925
	Distribution Losses - MUs	428	557	412	460
6	Distribution Losses - %	13.48%	16.21%	12.50%	13.58%

Note : In above table UI Charges are taken as net in overdrawal for FY11-12

3.3.4 The Hon'ble Commission is requested to approve the Energy Balance for the year FY 2011-12 and FY 2012-13 as provided in the above table. The energy requirement and source wise power purchase details along with actual cost are discussed in subsequent section. The details of approved vis-à-vis actual loss are depicted in the table below:

Table 3-3: Intra-state & Inter State Transmission & Distribution Loss for FY 11-12 and FY 12-13

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Intra State T&D Loss	13.48%	16.21%	12.50%	13.58%
Inter State Loss	4.31%	4.83%	4.98%	4.57%

3.4 Power Purchase Quantum & Cost for FY 2011-12 and FY 2012-13

3.4.1 EDG meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and Co-generating Company like Goa Energy Pvt Ltd. Goa Sponge & Power Ltd. Energy requirement also meets through NVVNL and through IPP (Reliance Infra).

3.4.2 The table below shows the summary of Power Purchase from various sources along with their costs for FY 2011-12 and FY 2012-13 including Transmission Charges, UI charges and purchase from traders.

Table 3-4: Power Purchase Quantum & Cost for FY 2011-12 and FY 2012-13

Sr. No.	Source	FY11-12 (Approved)		FY11-12 (Audited)		FY12-13 (Approved)		FY12-13 (Audited)		
		Quantum (MUs)	Cost (Rs. Cr)	Quantum (MUs)	Cost (Rs. Cr)	Quantum (MUs)	Cost (Rs. Cr)	Quantum (MUs)	Cost (Rs. Cr)	
A	Central Sector Power Stations									
I	NTPC	2,932.80	578.76	3,207.25	635.02	3,114.23	645.24	3,153.21	674.22	
II	NPCIL	195.83	49.47	213.60	54.74	196.60	50.78	197.43	50.23	
III	POOL PURCHASE/OVERDRAWAL	57.23	36.52	128.14	29.64	60.09	24.30	19.45	38.31	
B	Within State Generations									
	Co-Generation	119.12	28.43	114.17	30.82	93.46	22.43	71.80	17.09	
	Goa Energy Private Limited	105.99	25.27	-	27.38	-	-	61.64	14.65	
	Goa Sponge & Power Limited	13.13	3.15	114.17	3.44	-	-	10.17	2.44	
	Sesa Goa									
C	IPP	120.00	150.00	-	153.06	62.59	19.13	113.83	157.34	
	Reliance Infra	120.00	150.00	-	153.06	-	-	113.83	157.34	
						-	-	-	-	
D	Traders	315.21	121.09	315.21	121.08	20.82	8.43	20.82	8.28	
	NVVNL - as per PPA	315.21	121.09	315.21	121.08	-	-	20.82	8.28	
	P.T.C. India Ltd, New Delhi	-	-	-	-	-	-	-	-	
E	OTHER CHARGES		99.25		100.74		95.70		99.75	
	PGCIL Transmission Charges		92.60		100.74		-			
	KPTCL Wheeling Charges		1.90					-		
	NVVN Swapping / Banking Charges		1.89					-		
	Other Charges (WR & SR Fees, Scada Charges, Open Access, Reactive, WRTMPL, WRTGPL etc)		2.86					390.56		
F	Less: Penal UI Charges		4.14				-			
	Total	3,740.19	1,060.47	3,978.38	1,125.10	3,547.79	866.01	3,576.54	1,045.22	
	Power purchase cost per unit		2.84		2.83		2.44		2.92	

3.4.3 EDG submits that above power purchase excludes revenue from underdrawal and revenue from sale/ diversion of power to exchanges. The same are shown under revenue (income) head.

3.4.4 For FY 2011-12, overall power purchase cost is Rs. ~65 Cr higher as compared to approved in the order by commission, EDG submit that out of that the major factor contributing to increase in the power purchase cost is Rs. ~62 Crs more incurred for

the power purchase from NTPC and NPCIL as compare to the amount approved by the Hon'ble commission in order. Also, the cost per unit is marginally lower than the cost approved by the Hon'ble Commission.

3.4.5 For FY 2012-13, overall power purchase cost increased by Rs. 179 Crs as compared to cost approved by Hon'ble commission in the APR dated 31st March 2013. EDG submits that out of the same Rs.138 Crs increased for the power purchase from IPP as compared to the cost approved by Hon'ble Commission. However, on an overall basis, the cost per unit is marginally increased by 2 paise per unit in FY 2012-13 in comparison to FY 2011-12.

3.4.6 Therefore, EDG request the Hon'ble Commission to approve the power purchase cost for FY 2011-12 and FY 2012-13.

3.5 Operation & Maintenance Expenses

3.5.1 Operation & Maintenance Expenses consists of three elements viz Employee Expenses, A&G Expense and R&M Expense:

- Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses
- Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.
- Repairs and Maintenance Expenses go towards the day to day upkeep of the distribution network of the Company and form an integral part of the Company's efforts towards reliable and quality power supply as also in the reduction of losses in the system.

3.5.2 Regulation 27 (3) of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for O&M Expense for a distribution licensee. The relevant regulation is re-produced hereunder:

"27 (3) O&M expenses for distribution functions shall be determined by the Commission as follows:

- a) O&M expenses as approved by the Commission for the first time for a year shall be considered as base O&M expenses for determination of O&M expenses for subsequent years;*

Base O&M expenses as above shall be adjusted according to variation in the rate of WPI per annum to determine the O&M expenses for subsequent year, where WPI is

the Wholesale Price Index on April 1 of the relevant year.....”

3.5.3 **Employee Expenses:**EDG has computed the Employee expense for FY 2011-12 and FY 2012-13based on the actual employee expenses incurred during the entire year.

3.5.3.1 The details of the employee cost are outlined in the following table for the approval of the Hon’ble Commission:

Table 3-5:Employee Expenses for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Salaries& Allowances	112.44			
Terminal Benefits	6.44	155.04	136.44	154.63
Other Salary payments	7.01			
Total	125.89	155.04	136.44	154.63
Less: Add/Deduct share of others		-	-	-
Total	125.89	155.04	136.44	154.63
Less: Amount capitalized			-	-
Net amount	125.89	155.04	136.44	154.63
Add: Pension/ DA and other Provision				
Total Employee Expenses	125.89	155.04	136.44	154.63

3.5.3.2 EDG submits that employee cost as approved by the Hon’ble Commission in FY 2010-11 was Rs. 123.51 Crs whereas the actual expenditure for FY 2011-12 is Rs. 155.04 Crs resulting in increase of 26%. EDG humbly submits that the WPI for FY 2011-12 was ~8.93% against which the escalation in the cost is ~15%. Also, the audited employee cost for FY 2010-11 is Rs. 149 Crs which means the resultant increase on YoY basis is only ~3%. Employee cost has increased due to the impact of WPI and the accrual basis of accounting methodology adopted in the said year. However, the employee cost in FY 2012-13 has decreased marginally as compare to FY 2011-12.

3.5.3.3 It is submitted that such employee cost needs to be considered as uncontrollable and therefore, EDG request the Hon’ble Commission to kindly approve the actual employee cost during FY 2011-12 and FY 2012-13 as reflecting in annual accounts.

3.5.4 **Repairs & Maintenance Expenses:** The repairs and maintenance cost has been claimed as per expenses actually incurred during FY 2011-12 and FY 2012-13 which is reflecting in annual accounts ofthat financial year.

Table 3-6: R&M Expenses for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Total R&M expenses	17.03	9.52	18.55	19.16

- 3.5.4.1 It is submitted that it has been undertaking various Repairs and Maintenance activities as a step towards improvement of systems, reduction in breakdowns, and reduction in response time and increasing preventive maintenance.
- 3.5.4.2 As seen from the table above R&M expenses incurred actually for FY 2011-12 are lower than the as approved by the Hon'ble Commission.
- 3.5.4.3 For FY 2012-13, R&M expense are increased by 3% as compare to cost approved by Hon'ble Commission. Since in FY 2011-12 R&M expense were remarkably low, accordingly there couldn't be a comparison of actual R&M expense of FY 2012-13 with FY 2011-12 in the context of year on year increase in cost.
- 3.5.4.4 EDG submits that R&M expenses are necessary for maintenance of infrastructure and for ensuring proper Standard of Performance of the Electricity Department Goa and therefore request the Hon'ble Commission to approve Rs. 9.52 Crs for FY 2011-12 and Rs. 19.16 Cr for FY 2012-13 as R&M expenses.
- 3.5.5 **Administration & General expenses:** The administrative expense mainly comprise of rents, professional charges, office expenses, etc. The expenses incurred by the EDG for FY 2011-12 and FY 2012-13 are shown in the table below.

Table 3-7: A&G Expenses for FY 2011-12 and FY 2012-13

A&G Cost (Rs. Crs)				
Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Travelling Expenses	0.62	0.32		0.37
Office Expenses	16.44	9.91		17.98
Petrol,Oil,Lubricant (P.O.L)		0.01		0.01
Rent,Rates & Taxes	0.32	0.15		0.22
Advertisement & Publicity	0.20	0.20		0.24
Professional & Special Services	1.12	0.48		0.44
Other Charges	0.84	1.18		1.14
Overtime Allowance		0.00		0.00
Minor Works		1.44		1.77
Audit of Accounts and Professional Fees		0.11		0.11
Total	19.53	13.80	-	22.27
Less : share of others (To be specified)	-	-		-
Total expenses	19.53	13.80	-	22.27
Less : Capitalized	0.23	-	-	-
Net expenses	19.31	13.80	-	22.27
Add: prior period		-		-
Total A&G expenses	19.31	13.80	8.59	22.27

- 3.5.5.1 As seen from the table above, EDG has been able to limit its actual A&G expenses below the approved limit for FY 2011-12 and FY 2012-13. EDG submits that in the Tariff Order dated 27th June 2012 and APR order dated 31st March 2013, the Hon'ble Commission considering the reasonableness of the expenses and has approved the A&G expenses of Rs. 19.31 Crs for FY 2011-12 and Rs.8.59 Crs for FY 2012-13.
- 3.5.5.2 Also, in the Tariff Order dated 27th June 2012, the Hon'ble Commission has applied the WPI index of 8.76% on the approved value of FY 2011-12 and approved the A&G cost of Rs. 20 Crs for FY 2012-13 which is in line with the actual audited cost with marginal increase of Rs. 2.27 Crs only.
- 3.5.5.3 The Hon'ble Commission is therefore requested to approve the A&G expenses of Rs. Crs for FY 2011-12 and Rs. Crs for FY 2012-13.
- 3.5.6 **O&M Expenses Summary:**Based on the foregoing paragraphs, the O&M expenses for the year FY 2011-12 and FY 2012-13 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

Table 3-8: O&M Expenses for FY 2011-12 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Employee Expenses	125.89	155.04	136.44	154.63
A&G Expenses	19.31	13.80	8.59	22.27
R&M Expenses	17.03	9.52	18.55	19.16
O&M Expenses (Rs Cr)	162.23	178.36	163.59	196.07

- 3.5.6.1 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 178.36 Crs for FY 2011-12 and Rs. 196.07 Crs for FY 2012-13 as shown in the table above. The details of O&M expense for FY 2011-12 and FY 2012-13 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

3.6 Capital Work in Progress, GFA and Depreciation

- 3.6.1 **GFA:**The Opening Balance of GFA for FY 2011-12 comes to around Rs. 595.50 Crs and Rs. 693.69 Crs for FY 2012-13 as per annual accounts of respective years. The following table shows the opening balance, additions, deductions and closing balance of GFA for FY 2011-12 and FY 2012-13.

Table 3-9: GFA for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Opening Value of Assets at the beginning of the year	-	595.50	126.00	693.69
Additions during the year	126.00	101.40	81.30	125.81
Value of assets sold/disposed off	-	3.21	-	2.66
Gross Fixed Assets at the end of year	126.00	693.69	207.30	816.84

3.6.2 As seen from the above table, that In the Tariff order dated 27th June 2012, the Hon’ble Commission had not considered the opening value of Assets while approving Gross Fixed Assets components since EDG had not submitted reliable fixed asset register and audited accounts to support the claim in petition. Now in submission of True Up for FY 11-12 and FY 12-13, EDG is submitted above mentioned GFA figures based on the Audited Accounts as directed by the Hon’ble Commission.

3.6.3 **CAPEX and Capitalisation:** EDG submits that the prevailing infrastructure is insufficient to cater to the present load and hence to meet the increasing demand from HT and LT load, it is absolutely necessary to undertake significant capital expenditure. Accordingly, EDG has undertaken the CAPEX of Rs. 160.41 Crs and Rs. 97.20 Crs for FY 2011-12 and FY 2012-13 respectively. The detailed capital investment plan in line with Regulations 21 of JERC for the State of Goa and UTs (Terms and conditions for determination of Tariff), Regulation 2009 has been submitted with format 5 of the submission.

3.6.4 EDG request the Hon’ble Commission to allow the actual expenditure and capitalisation so as to ensure the creation of infrastructure for adherence to Standard of Performance and Supply Code Regulations

3.6.5 **Depreciation:** “As per Regulation 26 of JERC Tariff Regulations, depreciation for the assets shall be calculated annually at the rates specified by CERC from time to time. The same have been applied on different asset categories.

3.6.6 EDG would like to submit that the depreciation arrived in annual accounts for FY 2011-12 and FY 2012-13 is based on the rates specified by Hon’ble Commission in its Tariff Regulations which is charged on pro-rata basis.

3.6.7 The rates of depreciation for various assets are used as tabulated below:

Table 3-10: Rate of Depreciation applicable for various assets

Description of Assets	Rate of Depreciation
Land and Land Rights	--

Description of Assets	Rate of Depreciation
Building	3.34%
Plant and Machinery	5.28%
Lines and Cables	5.28%
Office Equipment	6.33%
IT Equipment	15.00%
Vehicles	9.50%
Furniture and Fixtures	6.33%
Testing and measuring equipment	5.28%
SCADA Centre	5.28%

3.6.8 The following table shows the depreciation arrived by EDG for FY 2011-12 and FY 2012-13 based on the approved depreciation rates specified by the Hon'ble Commission for different asset class. The same is reflecting in the annual audited accounts for respective years.

Table 3-11 : Depreciation for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Opening Value of Assets at the beginning of the year (Rs Cr)	-	595.50	126.00	693.69
Additions during the year (Rs Cr)	126.00	101.40	81.30	125.81
Value of assets sold/disposed off (Rs Cr)		3.21	-	2.66
Gross Fixed Assets at the end of year (Rs Cr)	126.00	693.69	207.30	816.84
Rate of depreciation	5.28%		5.28%	
Depreciation	3.33	32.75	8.80	35.45

3.6.9 The Hon'ble Commission is requested to approve Rs. 32.75 Crs for FY 2011-12 and Rs. 35.45 Crs for FY 2012-13 as submitted in the table above.

3.7 Interest & Finance Charge

3.7.1 The Regulation 25 provides for Interest and Finance Charges on Loan. EDG has submitted that the majority of capital assets are created out of the equity contribution from Government of Goa. However EDG has claimed the interest expenses based on normative loan calculation whereby 70% of the opening GFA and the capitalisation during the year has been considered as normative debt. The Interest expense arrived is based on normative loan considered to the extent of capitalization during the year after deducting the Electricity duty available as grant. The table below shows the opening balance for the normative loan considered for FY 2011-12:

Table 3-12: Opening balance of normative loan for FY 2011-12

Sr. No	Particulars	Amount (Rs. Crs)
1	Op. Balance of GFA as on 1st April 2011	595
2	Electricity Duty utilised from FY 2008-09 to FY 2010-11	64
3	Op. Balance of Equity as on 1st April 2011 = (1-2)*70%	372

3.7.2 Accordingly the Interest expenses vis-a-vis approved by the Hon'ble Commission for FY 2011-12 and FY 2012-13.

Table 3-13 : Interest on normative loan for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Opening Normative Loan	-	372.08	88.20	394.21
Add: Normative Loan during the year	88.20	59.33	56.91	65.43
Less: Normative Repayment	-	37.21	8.82	39.42
Closing Normative Loan	88.20	394.21	136.29	420.22
Average Normative Loan	44.10	383.14	112.25	407.21
Rate of Interest (@SBI PLR rate)	13%	13%	8%	15%
Interest on Normative Loan	5.73	49.81	9.53	60.06

3.7.3 As seen from the above table, EDG is submitted Interest on normative loan is at higher side than approved in order by Hon'ble Commission. Main reason for the actual amount is higher than approved amount is that while approving cost by the Hon'ble commission GFA were not been approved due to absence of Audited accounts. Consequently opening normative loan were not considered. Resultantly Interest on normative loan were approved of Rs.5.73 Cr and Rs.9.53 Cr for FY 2011-12 and FY 2012-13 respectively and the same is only on the addition of loan during the year.

3.7.4 Non consideration of opening GFA resulted into consequently non-consideration of opening normative loan, as a result effect of the lower interest amount on normative loan persist in the FY 2012-13 as well. Hence actual submitted Interest on normative loan looks odd in the comparison with approved cost.

3.7.5 Other than Interest on normative loan, EDG claimed other Interest and Finance charges in the table highlighted below, it is submitted that certain financial charges are incurred by the department which are related to bank charges, LC charges, etc.

Table 3-14 : Other Interest and Finance Charges for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Interest on PFC loan	-		-	-
Less capitalization	-		-	-
Net interest	-		-	-
LC charges	0.69		0.80	-
Finance Charges	-		-	-
Other Interest and Finance Charges	0.69	2.97	0.80	1.87

3.7.6 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 52.78 Crs (Rs. 49.81 Cr+ Rs. 2.97 Cr) for FY 2011-12 and Rs 61.93 Cr (Rs. 60.06 Cr + Rs. 1.87 Cr) for FY 2012-13 respectively. The details of Interest & Finance charges are provided in Format 10A of the Tariff Filing Formats

3.8 Interest on Working Capital

3.8.1 Regulation No. 29 of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009, stipulates the procedure for calculation of normative Working Capital and Interest on Working Capital as applicable to Goa Electricity Department. This is as shown below:

(1) For generation and transmission business, the working capital shall be as per CERC norms.

(2) Subject to prudence check, the working capital for distribution business shall be the sum of one month requirement for meeting:

- (a) Power purchase cost.
- (b) Employees cost.
- (c) Administration & general expenses and
- (d) Repair & Maintenance expenses.

(3) Subject to prudence check, the working capital for integrated utility shall be sum of one month requirement for meeting:

- (a) Power purchase cost
- (b) Employees cost
- (c) Administration & general expenses
- (d) Repair & Maintenance expenses.
- (e) Sum of two month requirement for meeting Fuel cost..

(4) The rate of interest on working capital shall be equal to the short term Prime Lending Rate of State Bank of India on the 1st April of the relevant financial year. The interest on working capital shall be payable on normative basis notwithstanding that the generating company / licensee has not taken working capital loan from any outside agency or has exceeded the working capital loan amount worked out on the normative figures.

3.8.2 The EDG hereby submits that it has adopted the same methodology adopted by the Hon'ble Commission in its tariff order for FY 2011-12 and APR order for FY 2012-13 for arriving at the working capital requirement whereby it has excluded the available security deposits available with EDG from the working capital requirement though the same has not been specified in the Regulations.

Table 3-15 : Interest on working capital for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Power Purchase Cost for one month*	78.51	93.76	71.66	87.10
Employee Cost for one month	10.49	12.92	11.37	12.89
A&G Expenses for one month	1.61	1.15	0.72	1.86
R&M Expenses for one month	1.42	0.79	1.55	1.60
Total Working Capital for one month	92.02	108.62	85.29	103.44
Closing Security Deposit (amount already with ED Goa)	62.57	76.74	70.24	90.58
Total Working Capital considered for one month (5-6)	29.45	31.88	15.05	12.86
SBI PLR Rate	13.00%	13.00%	14.75%	14.75%
Interest on Working Capital	3.83	4.14	2.22	1.90

3.8.3 As per Regulation No. 29 of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009, Interest on working capital is computed. The Hon'ble Commission is requested to approve the Interest on Working Capital of Rs. 4.14 Cr for FY 2011-12 and Rs. 1.90 Cr for FY 2012-13 as presented in the table above. Interest on working capital for respective financial years is in line with the approved amount by commission.

3.9 Interest on Security Deposits

3.9.1 The Regulation 25 of JERC (for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for Interest on Security Deposit, if any, made by the consumer with the licensee. The provision of interest on security deposits is to be made at the bank rate. The prevailing Bank rate is considered at 6.00% for FY 2011-12 and at 9.50% for FY 2012-13 as notified by Reserve Bank of India.

3.9.2 However Hon'ble commission had not approved EDG's proposal while approving the Interest on security deposit for FY 2011-12 due as actual interest were not been paid to consumers and amount claimed were only mere provision for payment of Interest on security deposit of the consumers in the revised 'Conditions of Supply' which had been sent to JERC for intimation. Subsequently while approving Interest on security deposit in APR for FY 2012-13, the Hon'ble Commission had approved Interest on Security Deposit from consumers available with EDG.

3.9.3 EDG here submitted cost of Interest on Security Deposit for FY 2011-12 and FY 2012-13 based on the Audited accounts for respective financial years. However, EDG is claiming the actual interest on security deposit paid of Rs. 0.14 Crs and Rs. 0.23 crs in FY 2011-12 and FY 2012-13 respectively and has requested the Hon'ble Commission for separate treatment for balance security deposit in the subsequent chapter.

Table 3-16 : Interest on Security deposit for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Opening Security Deposit		76.74	62.57	90.58
Add: Deposits during the Year		17.65	9.19	21.54
Less: Deposits refunded		3.82	1.52	5.54
Closing Security Deposit	-	90.58	70.24	106.58
Bank Rate		6.00%	9.50%	9.50%
Interest on Security Deposit	-	0.14	5.94	0.23

3.10 Return on Capital Base/ Net Fixed Assets

3.10.1 EDG being an integrated Utility, it is entitled to return on capital base under the provisions of Schedule VI of the repealed Electricity (Supply) Act, 1948 vide provision under Regulation 23 of JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009. Thus, in line with the, EDG has calculated the return on capital base at 3%. The summary of the Return on Net Fixed Assets as claimed by EDG, as approved by the Commission and as calculated for FY 2011-12 and FY 2012-13 is tabulated below:

Table 3-17 : Return on Capital Base/net Fixed Assets for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Gross block at beginning of the year		595.50	126.00	693.69
Less accumulated depreciation		155.09	3.33	184.63
Net fixed assets at beginning of the year		440.41	122.67	509.06
Reasonable return @3% of NFA	-	13.21	3.68	15.27

3.10.2 EDG hereby submits Return on capital base/Net Fixed Assets figures as above. As seen from the table above in FY 11-12, there were no amount of return approved by the Hon'ble commission against which EDG submits the actual amount of return of Rs. 13.21 Cr in FY 2011-12 and for FY 2012-13, against approved amount of Rs.3.68 Cr, EDG submits Rs. 15.27 Cr as Return on Capital base/Net Fixed Assets

3.10.3 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Net Fixed Assets of Rs. 13.21 Crs for FY 2011-12 and Rs. 15.27 Crs for FY 2012-13.

3.11 Provision for Doubtful debts

3.11.1 As specified in Regulation 28 of JERC Tariff Regulations (to be read with the format):

The Commission may, after the generating company/licensee gets the receivables audited, allow a provision for bad debts up to 1% of receivables in the revenue requirement of the generating company/licensee. (Information to be furnished in format 18).

3.11.2 The Hon'ble Commission has stated in the tariff order that bad and doubtful debts actually written off, limited to 1% as per the regulations, would be considered only after the availability of audited accounts and would be taken up at the time of the true-up of the ARR. Accordingly, based on the audited accounts, EDG claims the following bad and doubtful debts actually written off in the ARR:

Table 3-18: Bad debts written off for FY 2011-12 & FY 2012-13 – Rs. Crs

Sr. No.	Particulars	True Up	
		FY 2011-12	FY 2012-13
1	2	3	4
1	Amount of receivables (audited)	254.16	261.74
2	Bad and doubtful debts actually written-off in the books of accounts	2.54	2.62
3	Provision made for debts in ARR	2.54	2.62

3.12 Non-Tariff Income

3.12.1 The Non-Tariff Income comprises metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. The Non-Tariff Income approved by the Hon'ble Commission in the ARR for FY 2011-12 was Rs. 21.06Crs and Rs. 23.06Crs for FY 2012-13.

3.12.2 The details of Non-Tariff Income for FY 2011-12 and FY 2012-13 are provided in Format 20 of the Tariff Filing Formats.

3.12.3 The summary of total Non-Tariff Income is tabulated below:

Table 3-19: Non-Tariff Income for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12	FY11-12	FY12-13	FY12-13
	(Approved)	(Audited)	(Approved)	(Audited)
Sale Proceeds of dead stock, waste paper etc	0.61	0.97	-	0.31
Receipt from State Electrical Inspectorate	0.45	0.29	-	0.23
Misc. Receipts/income	20.00	11.84	-	8.02
Meter/service rent		3.72	-	3.73
Deferred Income (Electricity Development fund)		0.23	-	1.26
Total income	21.06	17.04	-	13.57
Add: prior period income	-		-	-
Total Non-tariff income	21.06	17.04	23.06	13.57

3.12.4 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of Rs. 17.04 Cr for FY 2011-12 and Rs. 13.57 Cr for FY 2012-13.

3.13 Revenue from sale of Surplus Power of Power

3.13.1 Revenue from sale of Surplus power of Power is Rs. 104.18 Cr and Rs. 32.77 Cr for FY 2011-12 and FY 2012-13 respectively against approved amount of Rs.118.41 Cr and Rs.6.11 Cr while approving in the Order Hon'ble Commission has not approved Revenue from Sale of surplus power – UI Pool since EDG had purchased costlier power, but Hon'ble commission suggested that Revenue from Sale of surplus power – UI Pool would be considered at the time of True up based on actual and the power availability and demand requirement.

Table 3-20: Revenue from Sale of Surplus power for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Revenue from sale of surplus power – UI Pool	52.00	46.48	-	20.68
Revenue from sale of surplus power- Exchanges	57.70	57.70	6.11	12.08
Revenue from banking of power	8.71	-	-	-
Total	118.41	104.18	6.11	32.77

3.13.2 In view of above, the Hon'ble Commission is requested to kindly allow the above Revenue from Sale of Surplus Power of Rs. 104.18 Cr and Rs. 32.77 Cr for FY 2011-12 and for FY 2012-13 respectively

3.14 Aggregate Revenue Requirement for FY 2011-12 and FY 2012-13

3.14.1 The Aggregate Revenue Requirement for FY 2011-12 and FY 2012-13 as approved by the Hon'ble Commission and as per the true-up Petition claimed by EDG are outlined in the following table:

Table 3-21: Calculation of ARR for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved by Commission)	FY11-12 (Claimed in True-Up)	FY12-13 (Approved by Commission)	FY12-13 (Claimed in True-Up)
Cost of power purchase	1,060.47	1,125.10	866.01	1,045.22
Employee costs	125.89	155.04	136.44	154.63
R&M expenses	17.03	9.52	18.55	19.16
Administration and general expenses	19.31	13.80	8.59	22.27
Depreciation	3.33	32.75	8.80	35.45
Interest and Finance Charges	6.42	52.78	10.33	61.93
Interest on Working Capital	3.83	4.14	2.22	1.90
Interest on Security Deposit	-	0.14	5.94	0.23
Return on NFA	-	13.21	3.68	15.27
Provision for Bad Debts	-	2.54	-	2.62
Other Expenses	-	-	0.60	-
Total Revenue Requirement	1,236.28	1,409.03	1,061.18	1,358.69
Less: Non Tariff Income	21.06	17.04	23.06	13.57
Less: Revenue from Sale of Power - UI Pool	52.00	46.48	-	20.68
Less: Revenue from Sale of Power-Exchanges	57.70	57.70	6.11	12.08
Less: Revenue from Sale / Banking of Power	8.71	-	-	-
Aggregate Revenue Requirement	1,096.80	1,287.81	1,032.01	1,312.36

3.14.2 EDG hereby requests the Hon'ble Commission to approve the ARR of Rs. 1,287.81 Cr for FY 2011-12 and Rs. 1,312.36 Cr for FY 2012-13 as submitted above.

3.15 Revenue from Sale of Power at Existing Tariff

3.15.1 The Revenue from Tariff for FY 2011-12 and FY 2012-13 approved by the Hon'ble Commission in tariff order dated 27th June 2012 & APR order dated 31st March 2013 was Rs. **813.65Cr** and Rs. **970.94 Cr**.

3.15.2 The actual revenue earned from tariffs for FY 2011-12 and FY 2012-13 is shown in the table below

Table 3-22: Revenue from Tariff for FY 2011-12 & FY 2012-13

Particulars	FY11-12 (Approved)		FY11-12 (Audited)		FY12-13 (Approved)		FY12-13 (Audited)	
	Sales (MUs)	Total Revenue (Rs Cr)	Sales (MUs)	Total Revenue (Rs Cr)	Sales (MUs)	Total Revenue (Rs Cr)	Sales (MUs)	Total Revenue (Rs Cr)
A. LOW TENSION SUPPLY	1,147.51	240.50	1,150.82	260.51	1,173.52	261.22	1,195.89	301.16
(a) LTD/Domestic	696.00	106.71	751.96	127.16	828.00	144.00	797.35	150.70
(b) LTD/L.I.G.	4.00	0.34	7.87	0.91	2.49	0.38	7.48	1.05
(c) LTD Domestic Mixed	1.51	0.37	3.23	0.93	5.00	1.00	4.37	1.33
LTC/Commercial	305.00	96.23	249.14	92.18	216.00	76.00	250.71	104.83
(a) LTP/Motive Power	92.00	26.95	78.33	23.05	83.00	30.00	75.32	24.10
(b) LTP Mixed (Hotel Industries)	6.00	2.10	6.10	2.91	5.08	2.06	5.50	2.83
(c) LTP Ice Manufacturing			6.84	2.07	-	-	7.03	2.37
LTAG/Agriculture	10.00	1.00	14.12	2.12	16.35	2.23	12.89	2.31
(a) LTPL (Public lighting)	31.00	6.20	30.50	8.34	15.30	4.78	32.92	10.61
(b) Arrears							-	0.05
LTPWW/Public Water works	2.00	0.60	2.71	0.84	2.30	0.77	2.31	0.99
B. HIGH TENSION SUPPLY	1,584.81	563.62	1,710.90	582.92	1,698.18	667.11	1,708.96	657.03
HT (Mixed)	145.11	60.27	128.81	50.89	280.51	102.58	114.79	47.18
HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	480.00	155.37	461.41	136.21	490.00	198.00	525.68	195.66
HTI Industrial	576.85	214.93	643.06	235.09	596.00	238.84	640.38	242.27
HTAG (Agriculture)	4.00	0.50	7.49	1.38	5.02	0.75	6.35	1.20
EHTI (Industrial)	169.00	61.50	170.52	60.79	139.13	57.63	132.24	55.50
HT P.W.W. & Sewage system	117.00	39.97	138.75	53.89	99.49	35.14	139.78	57.76
HT. M.E.'s Defence Estt.	40.00	12.00	24.73	8.01	34.00	11.72	25.49	9.61
HTI (Steel Rolling)	47.00	17.12	120.74	32.06	47.00	20.00	63.72	24.87
HTI / IT High Tech	5.00	1.70	6.23	1.95	7.03	2.45	40.55	15.58
HTI/Ice Manufacturing	0.85	0.26	0.40	0.11	-	-	0.49	0.18
(a) Sale from EDG to GSPL (Div. VII)			8.74	2.50			5.39	1.57
Sale to MSEDCL (Div. VI)			-	0.04			-	0.05
HTI Hotel Industry							14.11	5.72
C. TEMPORARY SUPPLY	14.00	9.80	18.39	12.92	14.60	10.95	20.39	15.38
(a) L.T. Temporary	14.00	9.80	17.93	11.78	13.76	10.32	19.65	14.27
(b) H.T. Temporary	-	-	0.46	0.30	0.84	0.63	0.74	0.84
Arrears under RRC (with no. of cases)			-	0.83			-	0.27
FPPCA charge						33.03		
Total	2,746.32	813.65	2,880.11	856.35	2,886.30	970.94	2,925.24	973.58

3.15.3 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 856.35 Cr for FY 2011-12 and Rs. 973.58 Cr for FY 2012-13.

3.16 Revenue Gap for FY 2011-12 and FY 2012-13

3.16.1 EDG in its submission of the 'Tariff Proposal for FY 2012-13' vide affidavit dated 5th April 2012 has submitted that the entire revenue gap for FY 2011-12 as per the revised estimates is to be met through budgetary support and there is no revenue gap of FY 2011-12 to be carried forward in FY 2012-13. EDG has submitted a letter from the Government of Goa for budgetary support for FY 2011-12 dated 5th April 2012, the main contents of which are reproduced below. The letter is addressed to EDG and signed by the Under Secretary Finance, Budget Department, Government of Goa.

"I am directed to state that the Government of Goa has decided to continue with the existing electricity tariff for the consumers in the state during the Financial Year 2011-12, and had provided the requisite budgetary support to meet the deficit, and hence has decided not to carry forward the deficit as may be approved by the Hon'ble Commission during the process of finalizing the ARR for FY 2011-12 to the next financial year 2012-13."

3.16.2 Also, for FY 2012-13, EDG has submitted that the entire gap for FY 2012-13 is committed to be funded by the Hon'ble Government of Goa by way of budgetary support. EDG in this regard has also submitted the letter from Government of Goa wherein the Government of Goa has assured to provide requisite budgetary support to meet the deficit at the existing tariff for FY 2012-13. In view of the budgetary support for FY 2012-13 from the Government of Goa, there is no net revenue gap for FY 2012-13.

3.16.3 Accordingly, the revenue gap of Rs. 431.46 Crs and Rs. 338.78 Crs for FY 2011-12 and FY 2012-13 respectively, has not been carried forward and will be met through the budgetary support as proposed in the earlier submission.

Table 3-23: Revenue Gap for FY 2011-12 and FY 2012-13 – Rs. Crs

Particulars	FY11-12 (Approved)	FY11-12 (Audited)	FY12-13 (Approved)	FY12-13 (Audited)
Aggregate Revenue Requirement	1,096.80	1,287.81	1,032.01	1,312.36
Revenue from existing tariff	813.65	856.35	970.94	973.58
Revenue Gap	283.15	431.46	61.08	338.78
Less : Budgetary Support from Govt.	283.15	431.46	61.08	338.78
Net Final revenue Gap	-	-	-	-

3.16.4 In view of above, the Hon'ble Commission is requested to kindly allow Revenue Gap of Rs. 431.46 Crs for FY 2011-12 and Rs. 338.78 Crs for FY 2012-13.

CHAPTER 4. ARR FOR FY 2013-14 AND FY 2014-15

4.1 Preamble

- 4.1.1 This section outlines the submission on the performance of EDG for FY 2013-14 and FY 2014-15.
- 4.1.2 It is submitted that the True-up of FY 2013-14 and FY 2014-15 has to be carried out as per the Regulation 8 of JERC Tariff Regulations, 2009. However, EDG submits that the audit of the accounts for the said financial years is in the process.
- 4.1.3 The Hon'ble Commission in its previous Order/(s) had stressed upon the requirement of the audited accounts to bring in more accuracy in the estimates to be approved. Also, the applicable JERC Tariff Regulations also requires the licensee to file the true up Petition along with the audited accounts.
- 4.1.4 In the last tariff order dated 18th April 2016, the Hon'ble Commission has directed EDG to the True-up Petitions for FY 2013-14 and FY 2014-15 should be filed along with the next APR Petition. However, due to uncontrollable factors, the audit of the FY 2013-14 and FY 2014-15 is not yet completed and hence seek condonation for delay in filing the true-up petition and request the Hon'ble Commission to file the true-up petition along with the next APR Petition.
- 4.1.5 Therefore in absence of the audited accounts and considering the earlier approach adopted by the Hon'ble Commission in the past tariff orders, the summary of the cost for FY 2013-14 and FY 2014-15 as approved by the Hon'ble Commission in the Tariff Order dated 15th April, 2014 and 06th April, 2015 respectively has been summarised in the following table:

Table 4-1: Revenue Gap approved by JERC in APR for FY 2013-14 and FY 2014-15

Sr. No.	Item of expense	(Rs. in Crores)	
		FY 2013-14	FY 2014-15
		Approved as per T.O. dt. 15.04.2014	Approved as per T.O. dt. 06.04.2015
1	Cost of power purchase	933.41	1,093.62
2	Employee costs	144.21	152.42
3	Administration and General expenses	9.08	9.46
4	R&M expenses	19.61	20.73
5	Depreciation	16.00	25.87
6	Interest and Finance Charges	16.70	24.12

Sr. No.	Item of expense	(Rs. in Crores)	
		FY 2013-14	FY 2014-15
		Approved as per T.O. dt. 15.04.2014	Approved as per T.O. dt. 06.04.2015
7	Interest on Working Capital	3.84	1.80
8	Return on NFA /Equity	5.86	11.12
9	Interest on Consumer Security Deposit	5.42	6.82
10	Other Expenses	0.56	
11	Total Revenue Requirement	1,154.68	1,345.95
12	Less: Non-Tariff Income	22.55	6.74
13	Less: Revenue from Sale of Power - UI Pool	8.38	
14	Provision for RPO Obligation for previous	29.42	20.70
15	Net Revenue Requirement (11-12-13+14)	1,153.17	1,359.92
16	Revenue from Tariff *	1,014.05	1,147.44
17	Revenue Gap (15-16)	139.12	212.48
18	Budgetary Support from Govt. of Goa	139.12	212.48
19	Balance Revenue Gap (17-18)	-	-
20	Energy sales (MU)	2962	3114
21	Average Cost of Supply (Rs/kWh)	3.89	4.37

*includes FPPCA charges

4.1.6 In view of the budgetary support committed by the Government of Goa, the Hon'ble Commission had approved nil revenue gap for the FY 2013-14 and FY 2014-15 during the annual performance review for the respective years. However, the assessment of the actual gap may be considered at the time of the true-up petition.

CHAPTER 5. PROVISIONAL ANNUAL PERFORMANCE REVIEW OF FY 2015-16

5.1 Preamble

5.1.1 This section outlines the performance of Goa Electricity Department (EDG) for FY 2015-16. EDG submits that the accounts are in the process and therefore it submits the provisional actual for FY 2015-16 in this petition for provisional truing up along with the comparison of the approved figures by Hon'ble Commission vide tariff order dated 6th April 2015.

5.1.2 It is submitted that the Hon'ble Commission vide its Business Plan MYT Order dated 6th April 2015, has deferred the implementation of Multi Year Tariff and concomitant business plan by one year and revised the control period as FY 2016-17 to FY 2018-19. Accordingly, for FY 2015-16, EDG submits the provisional review of FY 2015-16 in line with the Tariff Regulations, 2009.

5.1.3 This chapter summarizes each of the components of ARR for FY 2015-16 and thereby working out the revenue gap for that year.

5.2 Provisional Annual Performance Review FY 2015-16

5.2.1 The summary of the charges for FY 2015-16 claimed by EDG in the last petition and as approved by the Hon'ble Commission in the last Tariff Order dated 6th April 2015 is tabulated below:

Table 5-1: ARR of FY 2015-16 as per Tariff Order dated 6th April 2015 – Rs. Crs

Sr. No.	Item of expense	FY 2015-16 Petitioner's Submission	FY 2015-16 Approved by Commission
1	Cost of fuel		
2	Cost of power purchase	1,149.85	1048.34
3	Employee costs	232.45	161.53
4	R&M expenses	37.3	12.68
5	Administration and General expenses	16.27	10.03
6	Depreciation	63.19	38.81
7	Interest on Loan & Finance charges	88.2	33.49
8	Interest on Working Capital	4.27	2.34
9	Interest on Security Deposit	8.27	7.43
10	Return on NFA /Equity	57.45	15.82
11	Total Revenue Requirement	1,657.26	1,330.47
12	Less: Non-Tariff Income	6.65	6.74
13	Aggregate Revenue Requirement	1,650.60	1,323.73

5.2.2 EDG submits that it has submitted the review of FY 2015-16 to the Hon'ble Commission in its MYT Petition no. 197/2016 admitted on 19th February 2016. However, certain inconsistencies were observed in the submission and therefore, it was the view of the Hon'ble Commission not to undertake review of FY 2015-16 alongwith this petition. Accordingly, EDG resubmits the provisional figures of FY 2015-16 for review of Hon'ble Commission.

5.3 Number of Consumers

5.3.1 The Consumer base of Goa comprises of HT Industry, LT Industry, Commercial and Domestic consumers with the maximum number of consumers attributable to the domestic category. EDG submits before the Hon'ble Commission the actual consumer numbers for FY 2015-16 in comparison of the approved numbers as highlighted below:

Table 5-2: Details of No. of Consumer Numbers for FY 2015-16

Sr.No	Category of Consumer	FY 15-16 Approved	FY15-16 Provisional
A	Low Tension Supply	614294	580284
1(a)	Tariff LTD/Domestic and Non-Commercial	488,471	468864
1(b)	Tariff LTD/Low income group	11,547	2177
1(c)	Tariff LTD/Domestic Mixed	1,405	4282
2	Tariff-LTC/Commercial	90,863	87641
3(a)	Tariff-LTP/Motive Power	7,051	6050
3(b)	Tariff-LTP/ Ice Manufacturing	69	
3(c)	Tariff-LTP/Mixed (Hotel Industries)	155	190
4	Tariff-LTAG/Agriculture	11,145	10904
5	Tariff-LTAG/Public Lighting	2,740	112
6	Tariff-LT PWW/Public Water Works	744	0
17	Hoarding/Sign Board	104	64
B	High Tension Supply	825	746
7	Tariff HT-Mixed	168	96
8(a)	Tariff HTI/Industrial	400	557
8(b)	Tariff HTI/Hotel Industries	111	
8(c)	Tariff HTI/Ice Manufacturing	2	
9	HT Industrial (Ferro Metallurgical/Steel Melting/Power Intensive/Steel Rolling)	37	37
10	Tariff-HTAG/Agriculture	41	43
11	EHTI/Industrial	5	
12	HT PW/Public Water Supply and sewage	36	
13	HT MES/Defense Establishments	12	11
14	HT Industrial (Steel Rolling)	0	
15	Tariff HT Industries (IT High Tech)	13	
16	HT Domestic		2
C	Temporary Supply	4,929	4,452
18	Tariff -LT/Temporary	4,929	4452
19	Tariff-HT /Temporary		0
	Total Number of Consumers	620,047	585,482

5.3.2 It is requested to Hon'ble Commission to consider the number of consumers as

submitted in the above table for FY 2015-16.

5.4 Energy Sales

5.4.1 The total sales of EDG for FY 2015-16 are 3,160 MU's. The category wise provisional actuals and approved sales for FY 2015-16 are shown in the table below.

Table 5-3: Sales for FY 2015-16 (in Mus)

Sr.No	Category of Consumer	FY 15-16 Approved	FY15-16 Provisional
1(a)	Tariff LTD/Domestic and Non-Commercial	764	1,023
1(b)	Tariff LTD/Low income group	2	2
1(c)	Tariff LTD/Domestic Mixed	8	14
2	Tariff-LTC/Commercial	281	311
3(a)	Tariff-LTP/Motive Power	188	87
3(b)	Tariff-LTP/ Ice Manufacturing	8	
3(c)	Tariff-LTP/Mixed (Hotel Industries)	5	7
4	Tariff-LTAG/Agriculture	25	16
5	Tariff-LTAG/Public Lighting	40	3
6	Tariff-LT PWW/Public Water Works	6	
7	Hoarding/Sign Board	0	0
	Total LT Category	1,327	1,463
8	Tariff HT-Mixed	136	56
9(a)	Tariff HTI/Industrial	637	1,079
9(b)	Tariff HTI/Hotel Industries	143	
9(c)	Tariff HTI/Ice Manufacturing	2	
10	HT Industrial (Ferro Metallurgical/Steel Melting/Power Intensive/Steel Rolling)	576	500
11	Tariff-HTAG/Agriculture	6	21
12	EHTI/Industrial	175	
13	HT PW/Public Water Supply and sewage	144	
14	HT MES/Defense Establishments	27	25
15	HT Industrial (Steel Rolling)	-	
16	Tariff HT Industries (IT High Tech)	21	
17	HTD/Domestic		
	Total HT Category	1,868	1,681
C	Temporary Supply	38	16
18	Tariff-LT/Temporary	38	16
19	Tariff-HT/Temporary	-	-
	Total Sales	3,233	3,160

5.4.2 However, EDG would like to submit that there were issues related to billing of energy to consumers for few months in H2 of FY 2015-16 for few months due to changeover of the billing agencies and the transition period thereof. This Non-billing has resulted in to lower billing than what it would have been in FY 2015-16 which is however billed respectively in FY 2016-17.

5.4.3 ED submits that the meter reading, billing and collection process is being streamlined now and had gone through a transformation phase in FY 2015-16. In the past, it was maintained by several different agencies separately in each division and each agency had its separate logic for bill calculation and bill generation.

5.4.4 However, now a common agency is taking over all the billing and collection data for HT and LT consumers and a common process will be followed for all the division to avoid ambiguity in the process and data. While this streamlining process is in progress, a lot of errors in the legacy data have been discovered and the error rectification process is going on.

5.4.5 Based on the above submission EDG requests the Hon’ble Commission to approve the provisional actual sales for FY 2015-16 with the stated issues in above para.

5.5 Distribution Loss & Energy Requirement

5.5.1 EDG estimated the energy distribution losses of 18.20%for FY 2015-16 as compared to that approved by Hon’ble Commission at 11.50%. The comparison of Energy balance statement and the loss levels based on Provisional actuals and approved figures are shown in the table below:

Table 5-4: Distribution Loss and Energy Balance for FY 2015-16

Particulars	FY 15-16 (Approved vide BPO dated 06.04.15)	FY15-16 Provisional
T&D Loss (%)	11.50%	18.20%

5.5.2 EDG as submitted in above para would like to highlight that due to absence of billing for few months and the effect of the billing reflected in FY 2016-17, the actual T&D Loss may be different than what is being projected in this Petition.

5.5.3 EDG submits that the there was no billing undertaken in H2 of FY 2015-16 for few months as the billing agencies were changed and there was a transition period. Non-billing resulted in to lower billing than what it would have been as compare to energy purchased and available for sale in FY 15-16. Further EDG submits that the remaining billing of H2 of 15-16 were done in FY 16-17 H1.

5.5.4 Due to above mentioned reason EDG’s distribution loss shoot up to 18.20%in FY15-16 against 11.50% approved in the Order dated 06.04.15.

5.5.5 Therefore, it is submitted that the Hon'ble Commission may allow EDG to revise the T&D loss figures after authenticated and audited data starts flowing from the new billing system and getting energy audit results after installation of necessary meters at feeder and DT level.

5.6 Power Purchase Quantum & Cost for FY 2015-16

5.6.1 EDG meets its total energy requirement from its allocation from the Central Generating Stations (CGS), state based Co-generation facilities, Power Exchanges etc. EDG receives power from CGS like NTPC and NPCIL as per allocation from time to time. The power purchases from other sources such viz. Co-generation has been as per respective PPAs.

5.6.2 With regards to Solar and Non-Solar RPO, EDG has already submitted vide its affidavit dated 22nd April 2016 and 14th August 2015 vide case no. 175 of 2015, that it has totally fulfilled its RPO (both solar and Non-solar) target till FY 2015-16 by way of partly purchase of physical power and partly by RECs. The RPO is fulfilled in FY 2014-15 as well as in FY 2015-16.

5.6.3 As regards fulfilment of Solar RPO is concerned, PPA has been executed by the Government with M/s NVVNL for 6 MW on 22nd August 2014 for supply of solar power for a period of 5 years @ Rs 7.99 per unit exclusive of transmission charges. The supply has started w. e. f. 28-08- 2014.

5.6.4 Further PSA has been executed with M/s Solar Energy Corporation of India for 25 MW. SECI will be supplying the said solar power @ Rs 5.50 per unit for a period of 25 years. The flow of power has been started from 08.11.2015 and shall fulfil the partial solar RPO from 2015-16 till next 25 years.

5.6.5 Non-Solar RPO: EDG has issued an LOI to M/s NVVNL (Date: 09.07.2015) at Rs. 4.49 per kWh (At Goa Periphery) for 10 MW of hydro power from small Hydro power plant from Eastern Region to meet Non Solar RPO for the year FY 2015-16. Accordingly, ~12.62 Mus were purchase through this arrangement and the balance REC were bought to comply with the fulfilment of RPO for the respective year.

5.6.6 The compliance of Solar and Non-solar RPO has been highlighted in the following table:

Table 5-5: Compliance of Solar and Non-Solar RPO

S.No	Description	Unit	Previous Year					
			FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
1	Sales Within State	MUs	2,544	2,880	2,925	2,962	3,114	3,160
2	RPO Obligation	%	1.00%	2.00%	3.00%	3.00%	3.30%	3.55%
	- Solar	%	0.25%	0.30%	0.40%	0.40%	0.60%	0.85%
	- Non Solar	%	0.75%	1.70%	2.60%	2.60%	2.70%	2.70%
3	RPO Obligation	MUs	25.44	57.60	87.76	88.85	102.77	112.19
	- Solar	MUs	6.36	8.64	11.70	11.85	18.69	26.86
	- Non Solar	MUs	19.08	48.96	76.06	77.01	84.08	85.33
4	RPO Purchase / REC	MUs						
	- Solar	MUs					6.31	78.78
	- Non Solar	MUs		128.14	71.80	29.20	158.44	87.98
5	Cumulative RPO Obligation							
	- Solar	MUs	6.36	15.00	26.70	38.55	50.92	(0.99)
	- Non Solar	MUs	19.08	-	4.25	52.06	-	-

5.6.7 It is submitted that the Non-Solar RPO till FY 2014-15 has been complied through purchase of power from Cogen Sources. In FY 2015-16, Non-Solar Power procurement from NVVN as well as Purchase of REC certificate has been undertaken to meet Non-Solar RPO.

5.6.8 **Banking arrangement:** EDG has issued an LOI for Banking of Power so as to take power during peak hours in exchange of off peak power in the next financial year i.e. FY 2016-17 and the details of the same are provided in the table below. Under the said arrangement, EDG has already received 14.30 Mus in FY 2015-16 and the energy returned under this arrangement in Q2 of FY 2016-17 is 14.35 MUs.

5.6.9 The table below shows the summary of actual (provisional) Power Purchase from various sources along with their costs for FY 2015-16 including Transmission Charges, UI charges and purchase from traders.

Table 5-6: Power Purchase Quantum & Cost for FY 2015-16

Sr. No.	Source	FY 15-16 (Approved)		FY15-16 Provisional	
		Quantum (MUs)	Cost (Rs. Cr)	Quantum (MUs)	Cost (Rs. Cr)
A	Central Generating Stations				
I	NTPC STATIONS				
1	Korba STPS	1,545.92	225.85	1,579.13	243.03
2	Korba STPS - III	43.70	9.94	43.76	10.19
3	Vindhyachal STPS -1	289.34	69.44	256.37	57.01
4	Vindhyachal STPS - II	110.70	25.35	99.31	21.55
5	Vindhyachal STPS - III	95.74	25.84	93.00	23.05
6	Vindhyachal STPS - IV	93.93	22.69	112.25	36.07
7	Vindhyachal STPS - V			17.92	4.93
8	Kawas GPS	59.26	25.39	2.12	6.48
9	Gandhar GPS	33.83	19.65	0.72	4.40
10	Sipat Stage 1	198.88	45.93	184.54	45.46
11	Ramagundam STPS	640.87	199.71	766.91	211.00
12	Sipat Stage II	87.53	22.32	94.27	22.05
13	Mouda STPS	4.28	10.19	10.85	26.66
14	Barh-II	24.44	24.09		
15	JGPS			1.89	3.95
16	Other Adjustment			-	0.68
	Sub Total	3,228.44	726.39	3,263.03	715.16
II	RGPPL				
	Sub Total			-	-
III	NPCIL				
	Kakrapar APS 1& 2	109.25	25.97	63.96	15.62
	Kakrapar APS 3 & 4	105.08	24.98		
	Tarapur Unit 3 & 4	105.68	30.42	104.43	30.62
	Sub Total	320.01	81.37	168.40	46.24
IV	Solar RPO				
	NVVN Solar	10	7.99	11.75	6.10
	Solar Energy corporation of India	17	9.35	23.18	12.77
	Sub Total	27.00	17.34	34.94	18.88
V	Short term Tied up/Banking of Power	62.26	23.02	14.30	-
VI	Traders/Open Market Short Term	14.89	5.51	178.69	64.36
	A -Total-Central Stations	3,652.60	853.63	3,659.35	844.64
VII	OVER/ UNDER DRAWAL			166.39	50.39
B	Within State Generations				
I	CO-Generation				
	Goa Energy private Limited	124.27	29.82	53.76	12.96
	Goa Sponge & Power Limited	6.68	1.60	5.21	1.25
	Sesa Goa Limited	55.00	13.20	47.97	11.48
	Vedanta			95.49	22.95
	Sub Total	185.95	44.63	202.43	48.65
C	IPP				
D	RPO Obligation				
	REC Certificates -Solar		0.28	-	15.90
	REC Certificates -NonSolar		13.09	-	11.50
	NVVNL Hydro Non Solar			12.62	9.37
	Sub Total	0	13.38	12.62	36.77
E	Other Charges				
	PGCIL Transmission Charges, Wheeling, Open Access & Trading, Margin & Other Charges		136.70		161.40
	Grand Total	3,838.55	1,048.34	4,040.79	1,141.84
	Power purchase cost per unit		2.73		2.83

5.6.10 EDG submits that for the FY 2015-16, RPO provision allowed by the Hon'ble

Commission was Rs. 13.38 Crs against which Rs. 36.77 Crs had been incurred for renewable power purchase in FY 2015-16 for fulfilment of RPO till FY 2015-16 by way of REC purchase and Renewable power purchase.

5.6.11 Also, the impact of per unit cost is increased from Rs. 2.73 per unit as approved by the Hon'ble Commission to provisional cost of Rs. per unit. The basic reason for such increase in cost is due to procurement of Renewable power to meet RPO of past period and procurement of REC also. There is also an increase of Rs. 25 Crs in the transmission charges, which was due to third amendment in CERC (Sharing of Inter-State Transmission Charges & Losses) Regulations, 2010 whereby the hybrid approach was discontinued resulting in increase in PoC charges to a larger extent.

5.6.12 The Hon'ble Commission is requested to approve Rs. 1,141.84 Crs for FY 2015-16as power purchase cost (provisional actual) incurred during the year.

5.7 Operation & Maintenance Expenses

5.7.1 Operation & Maintenance Expenses consists of three elements viz Employee Expenses, A&G Expense and R&M Expense:

- Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses
- Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.
- Repairs and Maintenance Expenses go towards the day to day upkeep of the distribution network of the Company and form an integral part of the Company's efforts towards reliable and quality power supply as well as in the reduction of losses in the system.

5.7.2 Regulation 27 (3) of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for O&M Expense for a distribution licensee. The relevant regulation is re-produced hereunder:

"27 (3) O&M expenses for distribution functions shall be determined by the Commission as follows:

O&M expenses as approved by the Commission for the first time for a year shall be considered as base O&M expenses for determination of O&M expenses for subsequent years;

Base O&M expenses as above shall be adjusted according to variation in the rate of WPI per annum to determine the O&M expenses for subsequent year, where WPI is the Wholesale Price Index on April 1 of the relevant year.....”

5.7.3 **Employee Expenses:**EDG has computed the O&M (Employee) expense for FY 2015-16 based on the provisional actual employee expenses incurred during the entire year.

5.7.3.1 The employee cost incurred during the year for FY 2015-16 is Rs. 214.42 Crores.

Table 5-7: Employee Expenses for FY 2015-16 – Rs. Crs

Sr.No	Particulars	Approved	Provisional Actual
1	2	3	4
	Salaries & Allowances		
1	Salary	161.53	214.42
2	Wages		
3	Stipend		
4	Transport Allowance		
5	Overtime allowance		
6	Total	161.53	214.42
7	Less: Add/Deduct share of		
8	Total	161.53	214.42
9	Less: Amount capitalized		
10	Net amount	161.53	214.42
11	Add: Pension/ DA and other		
12	Total Employee Expenses	161.53	214.42

5.7.4 Employee cost for FY 15-16 has been on higher side as compared to approved cost due to increase in dearness allowance, HRA and travel allowance, out of the same dearness allowance is uncontrollable factor, further it is submitted that dearness allowance amount is approx. 35% to 40% of the total employee cost.

5.7.5 Also, the cost per employee has witnessed a CAGR of ~5.85% from FY 2011-12 compare to actual audited employee cost which is far lower than the WPI trend witness in those years. The details of the employee cost growth is highlighted in the table below:

Table 5-8: Justification on the employee cost for FY 2015-16

Particulars	Units	FY 2011-12	FY 2015-16	CAGR
Employee Expenses	Rs. Crs	155	214	8.44%
Average No. of Employee	No.	5,606	6,176	2.45%
Cost per Employee	Rs. Lacs	2.77	3.47	5.85%

5.7.6 EDG requests the Hon'ble Commission to kindly approve the provisional actual cost during the year for FY 2015-16.

5.7.7 **Repairs & Maintenance Expenses:** EDG has been carrying out various R&M activities as a step towards improvement of systems, reduction in breakdowns, reduction in response time and increasing preventive maintenance.

5.7.8 The repairs and maintenance cost has been claimed as per expenses actually incurred during FY 2015-16.

5.7.9 EDG has actually incurred Rs. 26.58 Cr during FY 2015-16 vis-à-vis Rs.37.95 Cr submitted in APR petition and Rs.12.68 Cr approved in tariff order of FY 15-16.

5.7.10 EDG Submits Repairs & Maintenance expense for FY 15-16 as under.

Table 5-9: R&M Expenses for FY 2015-16 – Rs. Crs

Sr.No	Particulars	Approved	Provisional Actual
1	2	3	4
1	Plant & machinery		5.40
2	Building		1.12
3	Hydraulic works & civil works		-
4	Line cable & network		9.70
5	Vehicles		3.51
6	Furnitures & Fixtures		0.57
7	Office Equipments		0.62
8	Operating Expenses		-
9	Minor R&M works		5.66
10	Total		26.58
11	Add/Deduct share of others (To be specified)		
12	Total expenses		26.58
13	Less : Capitalized		
14	Net expenses		26.58
15	Add: prior period		
16	Total expenses charged to revenue as R&M expenses	12.68	26.58

5.7.11 The increase in R&M cost is mainly on account of repairs and maintenance of 33 KV

substations, 11 KV substations, LT Lines etc. Also the increase is due to increase in Maintenance cost of LT lines and 33KV Sub stations, Minor R&M works are also contributing to significant part of R&M Expenses.

5.7.12 It is submitted that in the past few years, EDG has increased the fixed asset base to the large extent and to preserve and maintain such assets always demand appropriate cost so that consumers gets an uninterrupted power supply. EDG has been strictly following the Standard of Performance Regulations and Supply Code which needs a proper maintenance of such assets. Though the absolute number of R&M expenses is on the higher side, the % of R&M as compare to GFA is within the limits as highlighted in the table below:

Table 5-10: Justification of R&M Expenses for FY 2015-16 – Rs. Crs

Particulars	FY 2011-12	FY 2012-13	FY 2015-16
R&M Expenses	9.52	19.16	26.58
Average GFA	645	755	1,277
% of GFA	1.48%	2.54%	2.08%

5.7.13 Based on the above submission, EDG request the Hon'ble Commission to approve the R&M cost for FY 2015-16 as submitted in this petition.

5.7.14 **Administration & General expenses:** As mentioned earlier, Administrative expenses mainly comprise of rents, telephone & other communication expenses, professional charges, conveyance and travelling allowances and other debits.

5.7.15 The A&G expenses based on provisional actuals for the year FY 2015-16 computes to Rs. 17.39 Crs against the approved cost of Rs. 10.03 Crs. In case the same is linked to the number of consumers' base which has increased in past few years, the cost per consumers has witness a growth of marginally 4% which is far below then WPI/CPI index in those years. The details are highlighted as below:

Table 5-11: Justification of A&G Expenses for FY 2015-16

Particulars	Units	FY 2012-13	FY 2015-16	CAGR	CAGR
A&G Cost	Rs. Crs	13.80	17.39	7.99%	9.08%
No. of Consumers	No.	523615	585482	3.79%	2.47%
Cost per consumer	Rs.	263.65	296.97	4.05%	6.45%

5.7.16 The Hon'ble Commission is requested to approve A&G expenses as per provisional actuals.

5.7.17 **O&M Expenses Summary:** Based on the foregoing paragraphs, provisional actuals of the O&M expenses for the year FY 2015-16 are summarised below:

Table 5-12: O&M Expenses for FY 2015-16 – Rs. Crs

Sl.No.	Particulars	FY 15-16 (Approved)	FY15-16 Provisional
1	Employee Expenses	161.53	214.42
2	A&G Expenses	10.03	17.39
3	R&M Expenses	12.68	26.58
4	Total O&M Expenses	184.24	258.38

5.7.18 As can be witnessed, even though the cost in absolute number is on higher side as compare to the cost approved by the Hon'ble Commission, but if compared with the increase in number of employees, consumers and Asset base, all the cost are within the range of WPI.

5.7.19 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 258.38 Crs for FY 2015-16 as shown in the table above. The details of O&M expense for FY 2015-16 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

5.8 Capital Work in Progress, GFA and Depreciation

5.8.1 The Capital Work in Progress (CWIP), Gross Fixed Asset (GFA) and Depreciation for FY 2015-16 are discussed hereunder.

5.8.2 **GFA:** The Opening Balance of GFA for FY 2015-16 comes to around Rs.Crs as per provisional actuals. The following table shows the opening balance, additions and closing balance of GFA for FY 2015-16.

Table 5-13: GFA for FY 2015-16 - Rs. Crs

Sl.No.	Particulars	FY 15-16 (Approved)	FY15-16 Provisional
1	Opening GFA	581.37	1,190.91
2	Capitalization	307.5	172.07
3	Closing GFA (1+2)	888.87	1,362.98
4	Average GFA (1+3)/2	735.12	1,276.95

5.8.3 GFA Opening as per provisional actuals comes to Rs.1190.91 Crs against approved opening GFA of Rs.581.37 Crs. The provisional actual amount comes at higher side, the reason being Hon'ble commission had approved GFA closing for FY 14-15 as Rs.581.37 Crs (Opening Rs.398.74 Crs + addition of Rs.182.63 Crs) against proposed GFA Closing of Rs.1144.13 (Opening of Rs.961.15 Crs + addition of Rs.182.63 Crs) due to non-submission of FAR for FY 13-14 by EDG.

5.8.4 In this petition EDG has submitted true up of FY 11-12 & 12-13 based on the Audited

financials, Provisional GFA amount for FY 15-16 is the continuation of the GFA balance from Audited GFA values of FY 11-12 and FY 12-13.

- 5.8.5 Considering the base of the audited accounts for historic balance of GFA, EDG hereby requests the Hon'ble Commission to approve the actual Gross Fixed Assets opening and additions as submitted above for FY 2015-16.
- 5.8.6 **Depreciation:** "As per Regulation 26 of JERC Tariff Regulations, depreciation for the assets shall be calculated annually at the rates specified by CERC from time to time. The same have been applied on different asset categories.
- 5.8.7 The following table shows the depreciation arrived by EDG for FY 2015-16 based on the average approved depreciation rates specified by the Hon'ble Commission for different asset class and after deducting the grants.

Table 5-14: Depreciation for FY 2015-16– Rs. Crs

Depreciation			
Sl.No.	Particulars	FY 15-16 (Approved)	FY15-16 Provisional
1	Opening GFA (after adjusting grant)	581.37	968.44
2	Capitalization	307.5	127.01
3	Closing GFA (1+2)	888.87	1,095.45
4	Average GFA (1+3)/2	735.12	1,031.95
5	Average rate of Depreciation	5.28%	5.28%
6	Depreciation (4*5)	38.81	54.49

- 5.8.8 As mentioned in foregoing para's since provisional GFA value of FY 15-16 has based of audited figures of FY 11-12 and FY 12-13, Therefore derived depreciation amount for FY 15-16 is at higher side as compare to approved figure of depreciation. Hence the Hon'ble Commission is requested to approve Rs. 54.49 Crs for FY 2015-16 as submitted in the table above.

5.9 Interest & Finance Charge

- 5.9.1 The Regulation 29 provides for Interest and Finance Charges on Loan. The following are the provisions with respect to Interest and Finance Charges in Tariff Regulations, 2009

"25. Interest and Finance Charges on Loan

(1) For existing loan capital, interest and finance charges on loan capital shall be computed on the outstanding loans, duly taking into account the rate of interest and schedule of repayment as per the terms and conditions of relevant agreements.

(2) Interest and finance charges on loan capital for new investments shall be computed on the loans, duly taking into account the rate of interest and the schedule of repayment as per the terms and conditions of relevant agreements. The rate of interest shall, however, be restricted to the prevailing Prime Lending Rate of the State Bank of India.

(3) The interest rate on the amount of equity above 30% treated as loan shall be the weighted average rate of interest on loan capital of the generating company/licensee:

Provided that interest and finance charges of renegotiated loan agreements shall not be considered, if they result in higher charges:

Provided further that, interest and finance charges on works in progress shall be excluded and shall be considered as part of the capital cost.

(4) Interest charges on security deposits, if any, made by the consumers with a generating company/licensee, shall be equivalent to the bank rate or at the rate, if any, specified by the Commission whichever is higher.

(5) In case any moratorium period is availed of, depreciation provided for in the tariff during the years of moratorium shall be treated as repayment during those years and interest on loan capital shall be calculated accordingly.

(6) The Commission shall allow obligatory taxes on interest, commitment charges, finance charges and any exchange rate difference arising from foreign currency borrowings, as finance cost.

(7) Any saving in costs on account of subsequent restructuring of debt shall be assessed on to the consumers

5.9.2 The opening normative loan balances are also considered as per approved values. EDG submits those additions to loan has been taken as 70% of additions to GFA after excluding on the amount of GFA for APDRP Part B schemes as they are proposed to be funded by grant. The GFA considered is also after deducting assets created from ED funds. Normative loan repayments are considered as 1/10th of the opening balance.

5.9.3 The rate of Interest for long term Interest rate has been considered @ 14.75% i.e. SBI Short term lending rate for FY 2015-16. It is requested to Hon'ble Commission to approve Interest rate on normative principles.

5.9.4 In this petition EDG has not considered the Letter of Credit charges for payment security charges. As in order dated 18th April 2016 Hon'ble commission directed that the expenses towards Bank charges/Letter of credit etc. shall be considered at the

time of True up on the basis of actual expenditure. The table below shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission.

Table 5-15: Interest & Finance Charges for FY 2015-16 – Rs. Crs

Sl.No.	Particulars	FY 15-16 (Approved)	FY15-16 Provisional
1	Opening Normative Loan	314.67	472.41
2	Normative additions during the year (70% of Net additions to GFA)	215.25	88.91
3	Less: Loan Repayment	38.81	47.24
4	Closing Normative Loan	491.11	514.08
5	Average Normative Loan	402.89	493.25
6	Rate of Interest	7.99%	14.75%
7	Interest on Loan	32.19	72.75
8	Finance Charges	1.30	-
9	Interest on Loan & Finance	33.49	72.75

5.9.5 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 72.75 Crs for FY 2015-16 as shown in the table above.

5.10 Interest on Working Capital

5.10.1 As per Regulation 29 of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009, Interest on Working Capital for a licensee shall be the sum of the following for one month:

- i) Power Purchase Cost.
- ii) Employees Cost.
- iii) Administration & General Expenses &
- iv) Repair & Maintenance Expenses.

5.10.2 The following are the Regulatory Provisions in Tariff Regulations 2009, with respect to Interest on Working Capital.

"29. WORKING CAPITAL AND INTEREST RATE ON WORKING CAPITAL.....

..... (2) Subject to prudence check, the working capital for distribution business shall be the sum of one month requirement for meeting:

- (a) Power purchase cost.*
- (b) Employees cost.*
- (c) Administration & General expenses and*
- (d) Repair & Maintenance expenses*

..... (4)The rate of interest on working capital shall be equal to the short term Prime Lending Rate of State Bank of India on the 1stApril of the relevant financial year. The interest on working capital shall be payable on normative basis notwithstanding that the generating company / licensee has not taken working capital loan from any outside agency or has exceeded the working capital loan amount worked out on the normative figures.”

5.10.3 The Interest Rate is considered equivalent to the SBI PLR for the year FY 2015-16 which is at 14.75 %.The SBI PLR rate has been attached to this Petition.

5.10.4 In line with the aforesaid regulation, the Interest on Working Capital works out to Rs.**NIL**for FY 2015-16 which is provided in the table below:

Table 5-16: Interest on Working Capital for FY 2015-16 – Rs. Crs.

Sl.No.	Particulars	FY 15-16 (Approved vide BPO dated 06.04.15)	FY15-16 Provisional
1	Power purchase (1 month)	87.36	95.15
2	Employee cost (1 month)	13.46	17.87
3	Administration & General expenses (1 month)	0.84	1.45
4	Repairs & Maintenance Expenses (1 month)	1.06	2.22
5	Total Working Capital requirement	102.72	116.69
6	Less: Security Deposit	86.83	128.46
7	Net working capital requirement	15.89	(11.78)
8	Rate of interest	14.75%	14.75%
9	Interest on working capital	2.34	-

5.10.5 Working capital requirement is able to funded through Internal source i.e. Security deposit received from consumers, since there is no net working capital requirement, so no Interest on working capital is submitted.

5.11 Security Deposits

5.11.1 EDG has claimed interest on security deposit in line with the Regulation 25of JERC (for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009. The provision of interest on security deposits is to be made at the bank rate and therefore the Bank rate of 8.50%as on 01st April, 2015 is considered.

Table 5-17: Interest on Security Deposit for FY 2015-16 - Rs. Crs

Sl.No.	Particulars	FY 15-16 (Approved vide BPO dated 06.04.15)	FY15-16 Provisional
1	Opening Security Deposit	86.83	128.46
2	Add: Deposits during the Year	1.14	6.05
3	Less: Deposits refunded		7.54
3	Less: Deposits in form of BG/FDR		55.94
4	Closing Security Deposit	87.97	71.04
5	Average Security Deposit	87.40	99.75
6	Bank Rate	8.50%	8.50%
8	Interest on Security Deposit	7.43	8.48

5.11.2 EDG request the Hon'ble Commission to allow the said calculated interest on security deposit. However a subsequent section deals with the payment of interest on security deposit to be paid and the issues thereof.

5.12 Return on Capital Base/ Net Fixed Assets

5.12.1 EDG being an integrated Utility, it is entitled to return on capital base under the provisions of Schedule VI of the repealed Electricity (Supply) Act, 1948 vide provision under Regulation 23 of JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009. Thus, in line with the, EDG has calculated the return on capital base at 3%. The summary of the Return on Net Fixed Assets as claimed by the EDG, as approved by the Commission and as calculated for FY 2011-12 and FY 2012-13 is tabulated below:

Table 5-18: Return on NFA for FY 2015-16 - Rs. Crs

Sl.No.	Particulars	FY 15-16 (Approved vide BPO dated 06.04.15)	FY15-16 Provisional
1	Gross block at the beginning of the year	581.37	1,190.91
2	Less: Accumulated depreciation at the beginning of the year	53.99	259.29
3	Less: Accumulated consumer contribution at the beginning of the year		
4	Net fixed assets at the beginning of the year (1-2-3)	527.38	931.63
5	Rate of Return on capital base	3.00%	3.00%
6	Reasonable Return (4*5)	15.82	27.95

5.12.2 Return on NFA for FY 15-16 coming at higher side as compare to approved in the order. As said in the foregoing para's, amount of GFA as per audited accounts has

resulted into its impact in the return on NFA.

5.12.3 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Net Fixed Assets of Rs. 27.95 Crs for FY 2015-16.

5.13 Non-Tariff Income

5.13.1 The amount received by the licensee on account of non-tariff Income shall be deducted from the aggregate revenue requirement in calculating the net revenue requirement of such licensee. The non-tariff Income comprises of metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others and is considered same as FY 2015-16.

5.13.2 The details of Non-Tariff Income for FY 2015-16 are provided in **Format 20 of the Tariff filing formats**

5.13.3 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of Rs. 14.74 Crs for FY 2015-16.

5.14 Revenue from Sale of Power at Existing Tariff

5.14.1 The Revenue from Tariff for FY 2015-16 was Rs.1,235.21 Crs including FPPCA. The actual revenue earned from tariffs for FY 2015-16 is shown in the table below:

Table 5-19: Revenue from Tariff for FY 2015-16 – Rs. Crs

Sl.No.	Particulars	FY 15-16 (Approved)		FY15-16 Provisional	
		Sales (MU's)	Revenue (Rs. Cr)	Sales (MU's)	Revenue (Rs. Cr)
A	Low Tension Supply	1327	344.59	1,462.63	396.75
1(a)	Tariff LTD/Domestic & Noncommercial	764	147.21	1,022.67	208.87
1(b)	Tariff LTLIG/Low Income Group	2	0.39	2.29	0.49
1(c)	Tariff LTD/Domestic mixed	8	2.19	13.92	4.96
2	Tariff-LTC/Commercial	281	105.65	310.80	139.30
3(a)	Tariff-LTP/Motive Power	188	64.15	87.13	35.98
3(b)	Tariff-LTP/Ice manufacturing	8	2.65		
3(c)	Tariff-LTP/Mixed (Hotel Industries)	5	2.14	6.70	3.27
4	Tariff-LTAG/ Agriculture	25	3.74	16.36	2.74
5	Tariff-LTAG/ Public Lighting	40	14.8	2.76	1.14
6	Tariff LT PWW/Public Water Works	6	1.67		
B	High Tension Supply	1867	764.56	1,681.40	820.31
7	Tariff FIT Mixed	136	60.91	56.38	37.76
8 (a)	Tariff HTI/Industrial	637	267.9		
8 (b)	Tariff HTI/Hotel Industrial	143	57.3		
8 (c)	Tariff HTI/Ice Manufacturing	2	0.69		
9	HT Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive/ Steel Rolling)	576	226.99	499.95	229.12
10	Tariff-HTAG/ Agriculture	6	1.08	21.02	3.22
11	EHTI/Industrial	175	75.56	1,079.14	537.82
12	HT PW/Public Water Supply and sewage	144	55.63		
13	HT MES/Defence Establishments	27	10.18	24.67	12.25
14	HT industries Steel Rolling	0	0		
15	Tariff HT industries(IT High Tech)	21	8.32		
16	HTD/Domestic			0.24	0.14
C	Temporary Supply	38.3	29.16	16.38	18.15
17	Tariff-LT/ Temporary	38	28.95	16.20	17.98
18	Tariff-HT/ Temporary	0	0	-	-
19	Hoarding/ Sign Board	0.3	0.21	0.18	0.17
	Total	3232.3	1138.31	3,160.41	1,235.21

5.14.2 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 1,235.21 Crs including FPPCA.

5.15 Aggregate Revenue Requirement for FY 2015-16

5.15.1 The Aggregate Revenue Requirement for FY 2015-16 as approved by the Hon'ble Commission in the Review of ARR for FY 2015-16 was Rs. 1,323.73 Crs. The calculation for Aggregate Revenue Requirement on the basis of actuals (provisional) for FY 2015-16 is shown below:

Table 5-20: Calculation of ARR for FY 2015-16- Rs. Crs

Aggregate Revenue Requirement			
Sl.No.	Particulars	FY 15-16 (Approved)	FY15-16 Provisional
1	Cost of power purchase	1,048.34	1,141.84
2	Employee costs	161.53	214.42
3	R&M expenses	12.68	26.58
4	Administration and General expenses	10.03	17.39
5	Depreciation	38.81	54.49
6	Interest on Loan & Finance charges	33.49	72.75
7	Interest on Working Capital	2.34	-
8	Interest on Security Deposit	7.43	8.48
9	Return on Equity	15.82	27.95
10	Total Revenue Requirement	1,330.47	1,563.90
11	Less: Non Tariff Income	6.74	14.74
12	Net Revenue Requirement	1,323.73	1,549.15

5.15.2 EDG hereby requests the Commission to approve the ARR of Rs. 1,549.15 Crs for FY 2015-16 as submitted above.

5.16 Revenue Gap for FY 2015-16

5.16.1 The Revenue Gap approved by the Hon'ble Commission for FY 2015-16 was Rs. 185.43 Crs.

5.16.2 The Revenue Gap as approved by the Hon'ble Commission and as calculated on the basis of provisional true up of FY 2015-16 is shown in the table below:

Table 5-21: Revenue Gap for FY 2015-16 - Rs. Crs

Particulars	FY 15-16 (Approved)	FY15-16 Provisional
Aggregate Revenue Requirement	1,323.73	1,549.15
Revenue from existing tariff including FPPCA	1,138.30	1,235.21
Net Gap	185.43	313.95
Energy Sales (MU)	3,233	3,160.41
Average Cost of Supply (Rs/kWh)	4.09	4.90

5.16.3 EDG submits that the treatment of the Revenue gap of Rs. 313.95 Crores will be considered at the actual true-up of FY 2015-16.

CHAPTER 6. ENERGY EFFICIENCY – DELP SCHEME

6.1 Preamble

The Joint Electricity Regulatory Commission notified the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Demand Side Management) Regulations, 2014. As per the same, the licensees should consider the advancement and implementation of cost effective DSM initiatives in the direction of achieving the targets/ objectives determined by the commission.

- 6.1.1 As per JERC DSM Regulations, 2014, the licensee should carry out the assessment of potential for DSM in their respective area one year before the start of every Multi Year Tariff Control Period.

As per the MYT Regulations 2014, section “3.1.6 “Control Period” means multi-year period comprising of three financial years of FY 2016-17 to FY 2018-19, and as may be extended by the Commission, for submission of forecast in accordance with these Regulations;”

- 6.1.2 The Distribution licensee shall propose to the commission, the DSM targets to be achieved by them in their respective area if supply.

- 6.1.3 EDG has submitted that it is implementing DSM based efficient lighting programme (DELP) under demand side management programme in the state of Goa along with Energy Efficiency Services Limited (EESL). The Hon'ble Commission as requested by the Electricity Department Govt vide letter: 40/2/CEE/TECH/PLG. /2015-16/1749 dated: 29.12.2015 has accorded in-principle approval for the implementation of the scheme vide letter: DF&L/KT/17/33/2016-JERC/2122 dated: 07.1.2016.

- 6.1.4 Under DELP-SOP program, the EDG along with the technical and financial support of M/s. Energy Efficiency Services Limited has envisaged to undertake the following tasks.

- (i) It has been envisaged to distribute energy efficient 9W LED bulbs to 488,471 (As per ARR FY15-16 page no. 151) domestic consumers (households) in the jurisdiction of EDG in the state of Goa.
- (ii) It has been proposed to distribute 3 LED bulbs to each household in the project area as replacement of GLS lamp and at subsidized price of Rs.25 per LED bulb.

- (iii) Distribution of LED Bulbs will be in a phased manner and revenue cycle will start on completion of each phase. For this purpose, distribution of a maximum of 400,000 LED bulbs will be deemed as completion of one phase of distribution.
- (iv) Engage the services of third party agencies such as BEE or any other third party for physical verification. The third party monitoring agency randomly selects the sample of households for annual verification and certifies the working conditions of the LED bulbs in the system.
- (v) The EDG shall make payment to M/s. Energy Efficiency Services Limited to recover the investment made on a periodic basis (monthly) based on the accrued energy efficiency resource benefits calculated based on the working conditions of the LED bulbs as certified by the third party and the DELP-SOP price per unit of energy saved, as determined by the Hon'ble Commission, based on this petition, during the project contract period of three years.
- (vi) M/s. Energy Efficiency Services Limited agrees to replace the faulty LED bulbs for any technical defects (and not for broken lamps) at free of cost throughout the project period of three years irrespective of the type of fault.
- (vii) Safety Aspects
 - (a) M/s. Energy Efficiency Services Limited has ensured that the LED lights used under this project comply with the photo biological safety standards specified by BIS.
 - (b) The sample testing procedure may also be carried out in any laboratory accredited by NABL by M/s. Energy Efficiency Services Limited as part of this programme, in order to ensure performance and safety compliance.

6.2 Energy Savings

- 6.2.1 The deemed annual saving of energy under DELP program is around 78.6 Million Units. The EDG submits the workings for the deemed energy savings on account of replacement of a 60 W Incandescent bulb by 9 W LED bulb along with the assumptions as below.

Table 6-1: DSM Working

DSM Working Table		
Number of Households (Nos)	4,89,000	
Participation %	100.00%	
Number of Households proposed under this scheme	4,89,000	
Particulars	Unit	Details
Number of LED Bulbs offered per Household	Nos	3
Number of LED Bulbs offered under this Scheme	Nos	14,67,000
Wattage of ICL Bulb	Watt	60
Wattage of LED Bulb	Watt	9
Power saving	Watt	51
Hours of Usage per day	Hours	4
Operating days per year	Days	300
Energy saved per LED Bulb per Day	KWHr	0.18
Energy saved per LED Bulb per year	KWHr	53.55
Energy Demand Saved per year	Mus	78.56
Energy Saved under the Scheme per Annum	Mus	78.56

6.3 Cost Benefit Analysis

6.3.1 EDG humbly submits that the implementation of DELP Scheme in its jurisdiction, would result into energy savings of 78.56 Million units per annum resulting into reduction in power procurement cost of INR 58.39 crores over a period of three years (As per the proposal submitted by EESL).

6.3.2 The financial payouts/ receivable involved in implementation of this scheme, is as below:

Table 6-2: Savings under DSM

S No.	Description	Amount (Rs. Crs.)
1	Total investment made by M/s. Energy Efficiency Services Ltd.	10.18
2	Savings deemed to have been accrued to the EDG for the three years by saving energy purchased at subsidized rate. (As per calculation enclosed)	71.64
3	Total Payout to be made to M/s. Energy Efficiency Services Limited during the project period of three years including AMC charges, including taxes presently applicable. *	13.26
4	Net Savings to EDG	58.39

Note: * Taxes presently applicable are Income tax @ 34.61 % of return on equity and service tax @ 15% of total payout to EESL. Any change therein or applicability of any new tax will be passed on to EDG.

6.3.3 Thus, it is submitted that the project is financially viable apart from the benefits the society is achieving Energy security and mitigation of climate changes and protection of environment.

6.4 Other Benefits

The Other accrued benefits upon implementation of this Domestic Efficient Lighting Programme are as given below:

6.4.1 House Hold Sector

- Helps to reduce their energy consumption and its cost.

6.4.2 Distribution Utility

- Aids the department in reducing the demand & Supply gap.
- Minimise load shedding during peak hours.
- To meet demands of other cross subsidised consumers like commercial and industrial establishment.
- Generate additional revenue through sale of deemed energy saving to cross subsidised consumers and thereby helps to bridge the gap between the Average Cost of supply and the cross subsidised tariff rates.

6.4.3 Cross Subsidized Category

- The tariff rates for the cross subsidised categories will progressively reduced due to reduction in cross subsidised costs.

Table 6-3: Cost of LED Bulb to Consumer

S No.	Particulars	Unit	Amount
1	Cost of an LED Bulb	Rs.	82.45
2	Distribution, Storage, Transportation, Insurance of LEDs & awareness	Rs.	12.00
3	Net cost per LED bulb	Rs.	94.45
4	Less : Consumer Contribution (Upfront)	Rs.	25.00
5	Rebate to Consumer through Benefit accrued through Energy Efficiency	Rs.	69.45

6.4.4 Society

- Energy security.
- Enhance social awareness among people for use of energy efficient equipment.
- Mitigation of climate changes and protection of environment.

6.5 Project Financial at a Glance

6.5.1 Tentative Project Cost: The cost of project including the cost for public awareness is estimated at Rs. 13.86 Crores out of which Rs. 3.67 Crores is estimated to be funded as upfront consumer contribution at Rs25/ bulb. The net capital cost is estimated to be Rs. 10.19 Crores

Table 6-4: Net Capital Cost under DSM

S No.	Particulars	Unit	Amount
1	Number of LED Bulbs offered under this Scheme	Nos.	14,67,000
2	Total Cost of the LED Bulbs	INR	1209,54,150
3	Add: Public Awareness Cost	INR	176,04,000
4	Capital cost of the Project	INR	1385,58,150
5	Less: Upfront consumer contribution @ Rs. 25 per LED bulb	INR	366,75,000
6	Net capital cost of the project	INR	1018,83,150

* - However, it has been decided that upfront consumer contribution will be nil but the final notification is pending on this regards and so no changes is made.

6.5.2 Debt Equity Ratio: The debt equity ratio considered for this project is 80:20 out of which 80% of the project cost is funded through SDA and other financial institutions (40% through SDA and 40% through Financial Institutions) and 20% as equity infused by EESL.

Table 6-5: Returns on Investment for DSM Project

S No.	Particulars	Unit	Value
1	Capital Cost of Project	INR	1018,83,150
2	Debt portion (80% of Capital Cost)	INR	815,06,520
3	Interest for Debt servicing	%	10.00% p.a.
4	Equity portion (20% of Capital cost)	INR	203,76,630
5	Return on Equity / Equity IRR (Post-Tax)	%	15.50% p.a.

6.5.3 Annual Maintenance charges: Annual Maintenance charges of Rs. 24.2 Lakhs are estimated in order to facilitate the consumers in providing the customer service and allied activities. It is calculated as 2% of the actual cost of Bulbs.

Table 6-6: AMC for DSM Project

S No.	Particulars	Unit	Value
1	Total Cost of the LED Bulbs	INR	1209,54,150
2	Provision for Maintenance and customer service	%	2%
3	Annual Maintenance Charges	INR	24,19,083

6.5.4 Further, under this scheme it is decided that the above mentioned consumer contribution portion will also be funded by the EDG, so there will be 100% subsidy to the consumer under DELP scheme. So rebate to consumer would be Rs.94.45 Crs.

6.6 Tentative DELP-SOP price

6.6.1 The tentative DELP-SOP price per unit of energy saved and the annual payout to be made to EESL by the EDG under this project is worked out based on the above mentioned parameters envisaging distribution of 14,67,000 LED bulbs and are as detailed in the table below. In case of actual distribution varies, annual payout will vary accordingly. A detailed working sheet is enclosed along with this petition for consideration of the Hon'ble Commission.

Table 6-7: Annual payouts under DSM Scheme to EESL

Year	I	II	III	Total
Deemed Energy supplied through DELP-SOP scheme per Annum (Units)	785,57,850	785,57,850	785,57,850	2356,73,550
Annual payout to EESL, including taxes presently applicable (INR)*	508,04,369	433,72,995	384,18,745	1325,96,109

Note: * Taxes presently applicable are Income tax @ 34.61% of return on equity and service tax @ 15.00% of total payout to EESL. Any change therein or applicability of any new tax will be passed on to EDG.

6.7 Draft Energy Saving Agreement

6.7.1 EDG submits that, for the purpose of implementation of DELP Scheme in its jurisdiction with the financial support of M/s. EESL, an ESCO company, an agreement called Energy Saving Agreement needs to be signed between the two parties' viz., EDG and EESL.

6.7.2 The copy of the same will be submitted to the Commission once the agreement is signed.

6.8 Prayers to the Hon'ble Commission:

6.8.1 EDG prays to the Hon'ble commission to approve the DELP scheme as the part of Demand Side Management regulations 2014 and approve the energy saving quantum along with the expenditure incurred for the scheme.

CHAPTER 7. ANNUAL PERFORMANCE REVIEW FOR FY 2016-17

7.1 Background to FY 2016-17 Petition

7.1.1 EDG in this chapter submits the performance of each parameter of ARR as against the values approved by the Hon'ble Commission. This chapter summarizes each of the components of ARR for FY 2016-17 and requests the Hon'ble Commission to review the performance for FY 2016-17. The Annual Performance Review for FY 2016-17 is based on actual data/ information for first 6 months (First Half – H1) and estimation/projections for second 6 months (Second Half – H2). The projections for the second 6 months are arrived at by expected escalation over performance of first half data/ information.

7.2 Review for FY 2016-17

7.2.1 Regulation 8 (1) of the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Multi Year Distribution Tariff) Regulations, 2014 states that,

8. Annual Review of Performance and True-up

(1) The Commission shall undertake a review along with the next Tariff Order of the expenses and revenue approved by the Commission in the Tariff Order. While doing so, the Commission shall consider variations between approvals and revised estimates / actuals of sale of electricity, income and expenditure for the relevant year and permit necessary adjustments / changes in case such variations are for adequate and justifiable reasons. Such an exercise shall be called 'Review'.

7.2.2 Further Regulation 20.2 (b) of the aforesaid regulations states that,

"Estimated figures for the current financial year should be based on actual figures for the first six months and the estimated figures for the second six-months of the year. The estimated figures for the second half year of the current financial year should be based on the actual audited figures for the second half of the previous year with adjustments that reflect known and measurable changes expected to occur between them. These adjustments must be specifically documented and justified".

7.2.3 However, EDG submits that accounts and the audit of the previous year i.e. from FY 2013-14 onwards is still under process and therefore, the estimates of second half is undertaken based on the prudence judgement, past experience and expected changes to be occur in H2 of FY 2016-17.

7.2.4 The Hon'ble Commission had issued the Tariff Order for FY 2016-17 on 18th April

2016. For the purpose of ease of reference; the summary of approved ARR vis-a-vis submitted by EDG for FY 2016–17 submitted in the previous filing is reproduced hereunder:

Table 7-1: ARR approved by JERC for FY 2016-2017 - Rs. Crs

Sl.No.	Particulars	Submitted in petition	Approved
1	Cost of power purchase	1,246.44	1253.58
2	Employee costs	257.18	239.21
3	R&M expenses	47.33	27.86
4	Administration and General expenses	13.64	9.48
5	Depreciation *	41.97	49.22
6	Interest on Loan and Finance charges	56.62	57.63
7	Interest on Working Capital *	6.19	8.36
8	Interest on Security Deposit *	7.60	6.82
9	Return on NFA /Equity *	34.75	44.74
10	Provision for Bad Debt	-	0
11	DSM Budget/ Expenses	5.08	3.98
12	Total Revenue Requirement	1,716.80	1,700.88
13	Less: Non-Tariff Income	6.74	6.74
14	Less: Revenue from Sale of Power - UI Pool	-	-
15	Less: Revenue from Sale of Power-Exchanges	-	-
16	Net Revenue Requirement (12-13-14-15)	1,710.06	1,694.14

7.2.5 EDG would now discuss each of the elements of review in detail for H1 and H2 for determination of ARR and its gap for FY 2016-17.

7.3 Number of Consumers

7.3.1 The consumer base of Goa comprises of HT Industry, LT Industry, Commercial and Domestic consumers with the maximum number of consumers attributable to the domestic category. EDG has not considered any growth in the number of consumers for H2 as compared to H1 of FY 16-17 as EDG has witnessed a marginal growth in past which hardly affects the operation of EDG or revenue. However, in case of any growth in number of consumers, EDG is compatible enough to provide the new connection within the given scope of Supply Code and SoP Regulations and will not affect supply to any of the consumers. The table below shows category wise number of consumers for the year FY 2016-17 as per Projections against approved by the Hon'ble commission in the order dated 18th April 2016.

Table 7-2: Number of Consumers for FY 2016-2017(Nos)

No. of Consumers - FY 2016-17		
Category	Approved in Order dated 18.04.16	Estimated
DOMESTIC		
Low Tension-D/LT-D	477436	474483
Low Tension-LIG/LT-LIG	3049	2693
Low Tension-DM/LT-DM	4399	
High Tension-D/HT-D	2	3
COMMERCIAL		
Low Tension-C/LT-C	89263	91890
High Tension-C/HT-C	115	167
INDUSTRIAL		
Low Tension-I/LT-I	6341	4910
Low Tension-Mixed/LT-P (Hotel Industries)	212	1390
High Tension-I/HT-I	640	608
High Tension-Ferro/SM/PI/SR	37	35
AGRICULTURAL		
Low Tension-AG/LT-AG	10821	11072
High Tension-AG/HT-AG	41	43
MILITARY ENGINEERING SERVICES/DEFENSE ESTABLISHMENTS		
All Units	12	12
PUBLIC LIGHTING		
All Units	2740	408
HOARDINGS/SIGNBOARDS		
All Units	104	59
TEMPORARY SUPPLY		
LT Temporary	2581	3756
HT Temporary		1
Overall LT Number of consumers	596946	
Overall HT Number of consumers	847	
Total Number of Consumers	597793	591530

*The closing balance of FY 2016-17 H2 is taken as the number of consumer for entire year FY 2016-17

7.3.2 EDG submits that the number of consumer as per the projection submitted herewith for FY16-17 is within the range of approved number of consumers.

7.4 Connected Load

7.4.1 In line with the similar principles of the projection of consumers in H2, EDG is not considering any growth in connected load, Sales and has been considered similar to H1 of FY16-17. Therefore there is no growth in connection load of H2 FY 16-17. Category wise connected load for FY 16-17 as compared to connected load approved

in the tariff order are provided in the table below.

Table 7-3: Connected Load for FY 2016-17

Connected Load - FY 2016-17		
Category	Approved in Order dated 18.04.16	Estimated
DOMESTIC		
Low Tension-D/LT-D	1282744	2020309
Low Tension-LIG/LT-LIG	338	246
Low Tension-DM/LT-DM	13044	
High Tension-D/HT-D	193	4235
COMMERCIAL		
Low Tension-C/LT-C	280133	318636
High Tension-C/HT-C	42567	63147
INDUSTRIAL		
Low Tension-I/LT-I	115580	122090
Low Tension-Mixed/LT-P (Hotel Industries)	4285	135979
High Tension-I/HT-I	417220	667305
High Tension-Ferro/SM/PI/SR	114756	104300
AGRICULTURAL		
Low Tension-AG/LT-AG	34481	34728
High Tension-AG/HT-AG	8378	22309
MILITARY ENGINEERING SERVICES/DEFENSE ESTABLISHMENTS		
All Units	7080	6880
PUBLIC LIGHTING		
All Units	9598	1630
HOARDINGS/SIGNBOARDS		
All Units	35	455
TEMPORARY SUPPLY		
LT Temporary	1098	12661
HT Temporary		350
Total Connected Load	2331529	3515261

*The closing balance of FY 2016-17 H2 is taken as the connected load for entire year FY 2016-17

Note: All LT Connections except LTP/Motive Power, LTAG/Agriculture, LT Ice manufacturing and LT Public Water Work in KW, LTP/Motive Power, LTAG/Agriculture Connections LT Ice manufacturing and LT Public Water Work in HP, All HT Connections in KVA

7.5 Energy Sales

- 7.5.1 It is submitted that the EDG projected H2 Sales of FY16-17 equivalent to H1 of FY16-17. As mentioned in the earlier chapter EDG submits that there were certain issues related to billing in H2 of FY15-16 for few months as the billing agencies were changed and there was a transition period. Therefore, some of the billing of past period has been undertaken in H1 of FY 2016-17. Therefore H1 of FY16-17 have spill over of H2 of FY 15-16 sales. Further, in H2 FY16-17 EDG expect the increase in the sales due to tourism, Christmas and New Year season in H2 as compare to actual of

H1 of FY16-17. But in H1 FY16-17 already impact of billing of FY15-16 H2 is there and so EDG has projected the same sales of H1 in H2 for FY16-17.

7.5.2 The following table shows the overall sales projected by EDG for the year FY2016-17.

Table 7-4: Sales for FY 2016-17 (MUs)

Category	Approved in Order dated 18.04.16	FY16-17 H1	FY16-17 H2	FY16-17 Estimated
DOMESTIC				
Low Tension-D/LT-D	866.96	556.78	556.78	1,113.55
Low Tension-LIG/LT-LIG	1.10	2.91	2.91	5.82
Low Tension-DM/LT-DM	12.27			-
High Tension-D/HT-D	0.26	3.12	3.12	6.23
COMMERCIAL				-
Low Tension-C/LT-C	295.17	176.99	176.99	353.98
High Tension-C/HT-C	73.28	31.67	31.67	63.34
INDUSTRIAL				-
Low Tension-I/LT-I	125.38	36.83	36.83	73.67
Low Tension-Mixed/LT-P (Hotel Industries)	4.39	24.94	24.94	49.88
High Tension-I/HT-I	1,295.96	583.23	583.23	1,166.46
High Tension-Ferro/SM/PI/SR	561.19	253.34	253.34	506.67
AGRICULTURAL				-
Low Tension-AG/LT-AG	23.86	8.78	8.78	17.56
High Tension-AG/HT-AG	6.08	20.04	20.04	40.08
MILITARY ENGINEERING SERVICES/DEFENSE ESTABLISHMENTS				-
All Units	26.89	12.71	12.71	25.42
PUBLIC LIGHTING				-
All Units	36.95	3.49	3.49	6.99
HOARDINGS/SIGNBOARDS				-
All Units	0.35	0.09	0.09	0.19
TEMPORARY SUPPLY				-
LT Temporary	22.08	6.96	6.96	13.93
HT Temporary		0.04	0.04	0.09
Total Sales	3,352.17	1,721.92	1,721.92	3,443.85

7.5.3 EDG submits that the sales as estimated for FY 2016-17 is 3,443.85 MU's against approved 3352.17 MU's in the order.

7.5.4 The Hon'ble Commission is requested to kindly approve the sales figures as estimated in the table above. The figures of Number of Consumers, Connected Load and Sales for FY 2016-17 are provided in **Format 1 of Tariff Filing Formats**.

7.6 T&D Loss & Energy Requirement

7.6.1 **T&D Loss H1:** The Distribution Loss for the 1st half of the year FY 2016-17 (i.e. Apr 16

to Sep 16) based on the actual data available comes to 12.48%

- 7.6.2 **Energy Input H1:** The actual measured energy input at periphery for H1 from WR and SR is provided in the table below: (Data is as per the SEM readings recorded at the Periphery of Goa)

Table 7-5: Energy Input for WR & SR: FY 16-17 – H1

Particulars	H1 FY16-17 Provisional		
	WR	SR	H1
Energy Inputs at Periphery	1,548	333	1,881

- 7.6.3 **Energy Balance H1:** The Energy Balance for the 1st half of the year FY 2016-17, based on the provisional figures is shown in the table below:

Table 7-6: Energy Balance for FY 2016-17 H1 (in MU's)

Sr. No.	Particulars	FY16-17 H1
1	Sales within State (MU)	1,721.92
2	Savings under DELP (MU)	
3	Total Sales	1,721.92
4	Intra-State Transmission Loss (%)	12.48%
	Intra-State Transmission Loss (MU)	246
5	Sales to common pool consumers/Banking Return	
6	Energy Requirement at periphery (MU)	1,967.50
7	Inter State Transmission Loss (%)	4.60%
	Inter State Transmission Loss (in MU)	94.82
8	Energy Required at Generator End	2,062
9	Gross Availability (in MUs)	
	Co-Generation (Within State)	86.42
	Power purchase from R.E. Sources -Solar	
	Power purchase from R.E. Sources -Non Solar	30.63
	NPCIL	52.87
	Over/Under Drawal	126.85
	NTPC and Other Stations	1,669.84
10	PXIL (Buy) to match the Energy Requirement / Overdrawal and under drawal / Banking	95.72
11	Net power purchase (in MUs)	1,966.60
12	Gross Purchase including PXIL (in MUs)	2,062.33

- 7.6.4 **Inter-State Transmission Losses:** PGCIL losses are on account of two regions, Western region (WR) and Southern Region (SR), for FY 16-17 H1 and H2 PGCIL total losses arrived as under.

Table 7-7: Inter-State Transmission Losses for FY 16-17 (MUs)

Particulars	FY 16-17 (Approved)	FY16-17H1			FY16-17H2		
		WR	SR	H1 Total	WR	SR	H2 Total
Inter-State Transmission Loss (%)	4.14%	2.60%	13.82%	4.80%	2.70%	7.50%	3.60%

7.6.5 **PGCIL SR Losses:** It can be seen from the table above, that PGCIL loss for the southern region is on much higher side as compare to Western Region. This is due to the following reasons:

- i. The Power Scheduled from the SR originates from Ramagundam Periphery, which is located in Telangana.
- ii. Hence, the power which shall be made available at Goa periphery is subjected to substantial amount of losses viz Intra State Loss of Telangana and Inter State Losses and Losses between regions and Goa belong to the western region and Telangana to southern.
- iii. Thus, the PGCIL loss for the southern region tends to be more than the Western Region.

7.6.6 **Distribution Loss for overall FY 16-17:**The Distribution Loss for the year FY 2016-17 on overall basis is estimated to be around 12.10%against 11.25% approved by the Hon’ble Commission. In H1 T&D loss comes around 12.48%whereby it is still facing the transition issues of billing agencies and the issue related to accuracy of data provided by them is yet to be resolved. EDG has been trying to minimize the Distribution Loss and shall continue with the efforts in reducing the Distribution Loss further. Therefore based on the Projection for H2, T&D Loss is comes at 11.71%consequently comes 12.10%at FY16-17 as a whole.

7.6.7 The figures of AT&C loss and Distribution Loss for FY 2016-17 are provided in **Format 2 of Tariff Filing Formats**.

7.6.8 **PGCIL Losses for H2 of FY 2016-17:** As discussed in above Para, the total PGCIL Losses are considered for both the regions, i.e. WR & SR. The PGCIL loss for the SR for FY 2016-17 H2 is estimated as 27 MUs (Telangana Intra State Transmission Loss + Interstate Losses + Losses between regional grids). On the other hand PGCIL losses for the WR are estimated at 42 MUs.

7.6.9 EDG submits that it has projected power purchase quantum for H2 of FY 2016-17 based on the following assumptions.

- Percentage Allocation arrived for each of CGS station from Central Generating Station allocation data dated 31stOct 2016
- PLF of CGS station considered for H2 are based on recent actual PLF of the Plant.

- Auxiliary consumption for CGS stations is taken from revised CERC tariff Regulations 2014.
- Based on the above assumptions power purchase quantum from CGS stations have been arrived.
- Power Purchase quantum from within state existing co-generating stations and kawas, Gandhar is considered same as that of H1 of FY 2016-17.
- The remaining power requirement will be catered through power from power exchanges/ open market.
- While projecting the purchase from IEX/Traders, EDG considered the quantum of purchase from IEX/Traders which actually done till November 2016
- EDG has entered into Banking agreement which is considered as inflow in Q4 of FY 2015-16 and as outflow in Q2 of FY 2016-17
- Also, additional quantum of 106 Mus has been considered based on PPA with M/s. NVVNL for purchase of Hydro Power.

7.6.10 EDG has therefore estimated the power purchase quantum for H2 of FY 2016-17 and has integrated with actual quantum of H1 to arrive at energy balance for entire year of FY 2016-17.

7.6.11 EDG while computing Energy balance for entire FY 2016-17 has considered actual of over-drawl/under-drawl during first half of FY 2016-17. Thus, on the basis of the foregoing paragraphs, the Energy Balance for the year FY 2016-17 is computed by EDG vis-à-vis approved by the Hon'ble commission shown in the table below.

Table 7-8: Energy Balance for FY 16-17 (H1 + H2) (MUs)

Sr. No.	Particulars	Approved in Order dated 18.04.16	FY16-17 H1	FY16-17 H2	FY16-17 Estimated
1	Sales within State (MU)	3352.16	1,721.92	1,721.92	3,443.85
2	Savings under DELP (MU)	78.6			
3	Total Sales	3273.56	1,721.92	1,721.92	3,443.85
4	Intra-State Transmission Loss (%)	11.25%	12.48%	11.71%	12.10%
	Intra-State Transmission Loss (MU)	414.96	246	228	473.95
5	Sales to common pool consumers/Banking Return	19.26		-	-
6	Energy Requirement at periphery (MU)	3,707.78	1,967.50	1,950.29	3,917.80
7	Inter State Transmission Loss (%)	4.14%	4.60%	3.44%	4.03%
	Inter State Transmission Loss (in MU)	153.37	94.82	69.52	164.35
8	Energy Required at Generator End	3,861.15	2,062	2,020	4,082
9	Gross Availability (in MUs)				
	Co-Generation (Within State)	167.24	86.42	86.42	172.83
	Power purchase from R.E. Sources -Solar	50.56			
	Power purchase from R.E. Sources -Non Solar	34.69	30.63	136.63	167.25
	NPCIL	188.2	52.87	96.35	149.23
	Over/Under Drawal	0	126.85		126.85
	NTPC and Other Stations	3365.13	1,669.84	1,614.39	3,284.22
	PXIL (Buy) to match the Energy Requirement /				
10	Overdrawal and under drawal / Banking	55.34	95.72	86.04	181.76
11	Net power purchase (in MUs)	3,805.82	1,966.60	1,933.78	3,900.39
12	Gross Purchase including PXIL (in MUs)	3,861.16	2,062.33	2,019.82	4,082.14

7.6.12 The Hon'ble Commission is requested to approve the Energy Balance for the FY 2016-17 as provided in the above table. The energy requirement and source wise power purchase details along with actual cost for H1 are discussed in subsequent section. The figures of energy Balance for FY 2016-17 (H1, H2 and overall for FY 2016-17) are provided in **Format 3 of Tariff Filing Formats**.

7.7 Power Purchase Quantum & Cost for FY 2016-17

Power Purchase Cost for H1 FY 2016-17

7.7.1 EDG meets its total energy requirement from its allocation from the Central Generating Stations (CGS), state based Co-generation facilities, Power Exchanges etc. EDG receives power from CGS like NTPC and NPCIL as per allocation from time to time. The power purchases from other sources such viz. Co-generation has been as per respective PPAs.

7.7.2 The table below shows the summary of Power Purchase from various sources along with their costs for the 1st half of FY 2016-17 including Transmission Charges, Overdrawl and purchase from traders:

Table 7-9: Power Purchase Quantum & Cost for FY 2016-17 (H1)

Sl. No	Particulars	Gross Purchase	Cost	Rate
		MUs	Rs. Crs	Rs./kWh
1	NTPC	1,670	406	2.43
2	NPCIL	53	17	3.12
3	Traders	96	33	3.50
4	Overdrawl	127	31	2.48
5	Co-Generation	86	21	2.40
6	Renewable	31	20	6.50
7	Transmission	-	100	
8	Total	2,062.33	627.91	3.04

7.7.3 The source wise details of Power Purchase Quantum and its cost are covered in **Format 4 of the Tariff Filing Formats**.

7.7.4 EDG on a real time basis has also overdrawn/ under drawn power from both WR and SR grids. Reactive charges has been adjusted in the over drawal and under drawal charges. The summary details of the same are provided in the table below for H1:

Table 7-10: DSM Power (Overdrawl & Underdrawl) Charges for H1 of FY 2016-17

Region	Over drawal		Under drawal		Net Drawal	
	Rs. Cr	MUs	Rs. Cr	MUs	Rs. Cr	MUs
Western	29.18	117.79	1.43	9.87	27.75	107.92
Southern	4.20	20.84	0.13	1.91	4.07	18.93
Total	33.38	138.63	1.56	11.78	31.82	126.85

7.7.5 **Transmission Charges H1:** The transmission charges for the 1st half of FY 2016-17 comprises of transmission charges for Western Region, Southern Region, KPTCL. The Transmission charge comes to around Rs 99.63 Crores.

Power Purchase Cost for H2FY 2016-17

7.7.6 **Power Purchase Fixed Cost for H2 FY 2016-17:** The Fixed charges for CGS have been taken in line with the cost actually incurred by EDG during the first half of FY 2016-17. The fixed cost has been considered only for CGS stations.

7.7.7 **Power Purchase Variable Cost for H2 FY 2016-17:** The variable cost for CGS stations for FY 2016-17 has been computed considering per unit cost of H1 on average basis. The variable cost per unit for Co-Generation Stations (existing as well as upcoming) has been taken as per actuals of H1 on average basis.

Power Purchase from Renewable Energy Sources:

7.7.8 **Solar RPO:** As regards fulfilment of Solar RPO is concerned, PPA has been executed by the Government with M/s NVVNL on 22nd August 2014 for supply of solar power for a period of 5 years @ Rs 7.99 per unit exclusive of transmission charges, 6 MW i.e. approximately 10 MUs. The supply has started w. e. f. 28th August 2014 and therefore ~5.64 Mus expected in H2 of FY 2016-17

Further PSA has been executed with M/s Solar Energy Corporation of India for 25 MW. SECI will be supplying the said solar power of 25 MW @ Rs 5.50 per unit for a period of 25 years. The flow of power has been started from 08.11.2015 and shall fulfil the partial solar RPO from 2015-16 till next 25 years. On the said PPA, ~25 Mus is expected in H2 of FY 2016-17.

7.7.9 **Non-Solar RPO:** EDG has issued an LOI in H2 to M/s NVVNL (Date: 9th November 2016) at Rs. 4.49 per kWh (At Goa Periphery) of Wind power from Southern Region to meet Non Solar RPO for the year FY 2016-17. However, this was further revised by Letter dated 14th December 2016 to meet the entire quantum of Non-Solar RPO by 31st March 2017. There was no power purchase of Non-Solar in H1, but Non-Solar RPO obligation would be approximately near to the target of FY16-17, through

purchase of Wind power from NVVNL in H2 only based on above mentioned Lol.

7.7.10 EDG submits that cumulative RPO target for solar and Non-Solar till FY 16-17 is almost met. The details of RPO for Solar and Non-Solar for FY 2016-17 are given in the table below:

Table 7-11: Solar & Non-Solar RPO Status for FY 2016-17

S.No	Description	Unit	Current Year (Rev.Est)
			FY 2016-17
1	Sales Within State	MUs	3,443.85
2	RPO Obligation	%	4.85%
	- Solar	%	1.65%
	- Non Solar	%	3.20%
3	RPO Obligation	MUs	167.03
	- Solar	MUs	56.82
	- Non Solar	MUs	110.20
4	RPO Purchase / REC	MUs	
	- Solar	MUs	61.25
	- Non Solar	MUs	106.00

7.7.11 **Transmission Charges FY 2016-17 (H2):** The Transmission Charges for FY 2016-17 are considered as per POC rates As per SR and WR RTA accounts for October 2016. Further, the transmission charge has also been considered factoring the wheeling charges pertaining to KPTCL.

7.7.12 The transmission charges for 2nd half of FY 16-17 are computed based on the rates provided in Regional Transmission Account Statement for October 2016. The computation of transmission charges consists of POC Charges, Reliability support charges and HVDC charges and is provided in the table below.

Table 7-12: POC Transmission Charges for H2 for FY 2016-17

Regions	POC Rates	Reliability support charges	HVDC Charges	Total Charges	Monthly Quantum	Monthly charges	Total charges for 6 months
	(Rs/Mw/month)	(Rs/Mw/month)	(Rs/Mw/month)	(Rs/Mw/month)	(MW)	(Rs. Crs)	(Rs. Crs)
SR	88362	25321	16010	129693	93.28	1.21	7.26
WR	327380	25321	6985	359686	391.50	14.08	84.48

7.7.13 The transmission charges from KPTCL have been worked out by considering wheeling charge of **2.50 paise/unit** on power drawl. Accordingly, the total transmission

charges for H2 including Wheeling and SLDC charges etc for FY 2016-17 are given in the table below:

Table 7-13: Total Transmission Charges for H2 FY 2016-17

Particulars	H2 FY 2016-17
POC Transmission charge (Oct 2016 to March 2017)	91.74
KPTCL Wheeling Charge (H2 FY 2016-17)	0.45
Fees and Charges of SRLDC-WR	0.25
Fees and Charges of SRLDC-SR	0.06
SCADA and Reactive Charges	0.00
Total	92.49

7.7.14 Thus, the total Transmission charge for H2 of FY 2016-17 works out to be Rs. 92.49 Crores.

7.7.15 **Power Purchase Cost summary FY 2016-17:** In line with the foregoing paragraphs, the total Power Purchase for FY 2016-17 estimated and approved in the tariff order is summarized in the table below:

Table 7-14: Power Purchase Summary for FY 2016-17

Sr. No.	Source	Approved in Order dated 18.04.16		H1 FY 16-17		H2 FY 16-17		FY 16-17	
		Quantum (MUs)	Cost (Rs. Cr)	Quantum (MUs)	Cost (Rs. Cr)	Quantum (MUs)	Cost (Rs. Cr)	Quantum (MUs)	Cost (Rs. Cr)
A	Co-Generation (Within State)	167.24	40.13	86.42	20.71	86.42	20.71	172.83	41.42
B	Renewable Power	85.26	45.83	30.63	19.91	136.63	67.51	167.25	87.42
C	NPCIL	188.20	48.59	52.87	16.52	96.35	26.00	149.23	42.52
D	NTPC and Other Stations	3,365.13	828.04	1,669.84	406.22	1,614.39	389.53	3,284.22	795.75
E	PXIL/IEX	55.34	16.60	95.72	33.47	86.04	25.60	181.76	59.07
F	Transmission Charges	-	265.85	-	99.63	-	92.49	-	192.12
G	Over/Under Drawal			126.85	31.44	-	-	126.85	31.44
H	Total	3,861.17	1,245.03	2,062.33	627.91	2,019.82	621.84	4,082.14	1,249.74
I	Power purchase cost per unit		3.22		3.04		3.08		3.06

7.7.16 It is submitted that Gross Power Purchase is 4082 Mus whereas power purchase at State periphery after losses is 3,917.80Mus. The total power purchase cost is Rs. 1249.74 Crs with the average power purchase cost works out to Rs. 3.06/kWh against approved net power purchase cost of Rs.3.22 /kWh for FY 2016-17.

7.7.17 EDG submits that the total power purchase cost of Rs. 1249.74 Crs though at higher side as compared to approved total power purchase cost of Rs.1245.03 Crs due to units of power purchase are more than the approved units as Sale units are estimated more than the approved number of units, the overall cost per unit is low.

7.7.18 To optimize the power purchase cost EDG is buying cheap power from the open market and not scheduling the power which is costlier. EDG has procured power from the short term sources like IEX/traders etc. at lower rate of power purchase i.e around Rs.2.84 per unit. Therefore from the above figures can be seen that over all Power purchase cost per unit is at lower side than the approved in the tariff order. i.e Rs.3.19/kWh against approved of Rs.3.22 /kWh. Also, the transmission charges has reduced to a large extent resulting in reduction in power purchase cost.

7.7.19 The power purchase details for H1 and H2 and for FY 2016-17 (H1+H2) are provided in **Tariff Filing Format 4**.

7.7.20 It is requested to the Hon'ble Commission to approve the power purchase cost including transmission charges at Rs.1249.74 Crores for FY 2016-17 as per workings and at an average cost of Rs./kWh on net power purchase basis. Further the Regional Energy Accounts (REA) and Regional Transmission Accounts (RTA) for the period from April 2016 to September 2016 are provided in soft format along with the petition for verification and scrutiny of the Commission.

7.8 Operation & Maintenance Expenses

7.8.1 Operation & Maintenance Expenses consists of three elements viz Employee Expenses, A&G Expense and R&M Expense:

- Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses
- Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.
- Repairs and Maintenance Expenses go towards the day to day upkeep of the distribution network of the Company and form an integral part of the Company's efforts towards reliable and quality power supply as also in the reduction of losses in the system.

7.8.2 As per Regulation 21 of JERC MYT Regulations, 2014, the Hon'ble Commission shall stipulate separate trajectory of norms for each component of O&M expenses.

" 21. Operation & Maintenance Expenses

(a) The Commission shall stipulate a separate trajectory of norms for each of the components of O&M expenses viz., Employee cost, R&M expense and A&G expense.

Provided that such norms may be specified for a specific Distribution Licensee or a class of Distribution Licensees.

....

(c) One-time expenses such as expense due to change in accounting policy, arrears paid due to pay commissions etc., shall be excluded from the norms in the trajectory.

(d) The expenses beyond the control of the Distribution Licensee such as dearness allowance, terminal benefits in Employee cost etc., shall be excluded from the norms in the trajectory.

(e) The One-time expenses and the expenses beyond the control of the Distribution Licensee shall be allowed by the Commission over and above normative Operation & Maintenance Expenses after prudence check.”

7.8.3 Employee Expenses for FY 2016-17:

7.8.3.1 As per Regulation 21.1 of JERC MYT Regulations, 2014 expenses beyond the control of the Distribution Licensee like arrears and impact of pay commission shall be adjusted.

7.8.3.2 The relevant extract of regulations is reproduced below for reference.

“21.1 Employee Cost

*Employee cost shall be computed as per the approved norm escalated by wholesale price index (WPI), adjusted by provisions for expenses beyond the control of the Distribution Licensee and one time expected expenses, such as recovery/adjustment of terminal benefits, **implications of pay commission, arrears** and Interim Relief, governed by the following formula:*

$$EMP_n = (EMP_b * WPI \text{ inflation}) + Provision$$

*Provision: Provision for expenses as necessitated by the licensee due to expansion of the consumer base, **yearly increments of Employees**, and any expected one-time expenses as specified above.”*

7.8.3.3 **7th pay commission brief**- The Central Government has announced the implementation of 7th pay commission report which will have an increased outgo on the employee expense for EDG. As the salary and other expenses have to be paid based on the 7th pay commission during the current year and also the arrears for the fourth quarter of FY 2015-16 (implementation from 01st January 2016), the impact of the same will be on the employee cost. However, the actual provision starts from 1st January 2017.

7.8.3.4 EDG has computed the O&M (**Employee Expense**) expenses for FY 2016-17 based on the provisional actual employee expenses till September 2016. Further EDG considered employee expenses for second half of FY 2016-17 based actual of H1 of 2016-17. The total employee cost is estimated at Rs. **250.96** Crores for FY 2016-17.

7.8.3.5 The employee cost for FY 2016-17 has been on higher side as compared to approved due to increase in dearness allowance (uncontrollable factor), increase in HRA and travel allowance. Also, the impact of the 7th Pay Commission was proposed during APR as per expected actual payout which was ~Rs. 56.39 Crores for FY 2016-17. The Commission has approved only 50% of the amount resulting in a difference of Rs. 28.2 Crs.

7.8.3.6 Also, the cost per employee has witnessed a CAGR of ~5.62% from FY 2011-12 compare to actual audited employee cost which is far lower than the WPI trend witness in those years. The details of the employee cost growth is highlighted in the table below:

Table 7-15: Justification on the employee cost for FY 2016-17

Particulars	Units	FY 2011-12	FY 2016-17	CAGR
Employee Expenses	Rs. Crs	155	251	10.11%
Average No. of Employee	No.	5,606	6,905	4.25%
Cost per Employee	Rs. Lacs	2.77	3.63	5.62%

7.8.3.7 Also, the above salary component also includes the impact of 7th Pay commission which if excluded will witness a marginal increase as compare to FY 2015-16. Accordingly, EDG request the Hon'ble Commission to approve the Employee cost as submitted in the petition.

7.8.3.8 The head wise actual information for employee expenses has been provided in **Format 16 of Tariff Filing Format.**

7.8.4 Repairs & Maintenance Expenses for FY 2016-17:

7.8.4.1 EDG has been carrying out various R&M activities as a step towards improvement of systems, reduction in breakdowns, reduction in response time and increasing preventive maintenance.

7.8.4.2 EDG has actually incurred amount of Rs. 15.89 Crores in the first six months period from April-September 2016 which includes Rs.4.95 Crs spend for the minor R&M works. While projecting the R&M expense for H2, have estimated the expenses

based on the budget available with the department except for minor R&M works. In H2, Minor R&M works of Rs. 1.42 Crs is projected only resulting in total estimated expenses of Rs. 12.20 Crs.

7.8.4.3 The R&M expenses based on provisional and revised estimates for the year FY 2016-17 compute to Rs. 28.09 Crs. Projected R&M expense are slightly higher than the approved amount of Rs. 27.86 Crs

7.8.4.4 R&M cost is mainly on account of repairs and maintenance of 33 KV substations, 11 KV substations, LT Lines etc. Also minor R&M works are also contributing to significant part of R&M Expenses.

7.8.4.5 It is submitted that in the past few years, EDG has increased the fixed asset base to the large extent and to preserve and maintain such assets always demand appropriate cost so that consumers gets an uninterrupted power supply. EDG has been strictly following the Standard of Performance Regulations and Supply Code which needs a proper maintenance of such assets. Though the absolute number of R&M expenses is on the higher side, the % of R&M as compare to GFA is within the limits as highlighted in the table below:

Table 7-16: Justification of R&M Expenses for FY 2016-17

	Units	FY 2011-12	FY 2012-13	FY 2016-17
R&M Expenses	Rs. Crs	9.52	19.16	28.09
Average GFA	Rs. Crs	645	755	1,520
% of GFA	%	1.48%	2.54%	1.85%

7.8.4.6 The R&M cost claimed by EDG is ~1.85% of GFA which is far lower than the norm of 2.92% approved by the Hon'ble Commission. Accordingly, EDG request the Hon'ble Commission to approve the R&M cost as submitted in the petition.

7.8.5 Administration & General expenses for FY 2016-17:

7.8.5.1 As mentioned earlier, Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.

7.8.5.2 As per Regulation 21.3 of JERC MYT Regulations, 2014 there is provision for expected expenses and one-time expenses.

“21.3 Administrative and General Expenses

A&G expenses shall be computed as per the norm escalated by wholesale price index (WPI) and adjusted by provisions for confirmed initiatives (IT etc.

initiatives as proposed by the Distribution Licensee and validated by the Commission) or other expected one-time expenses, and shall be governed by following formula:

$$A\&G_n = (A\&G_b * WPI \text{ inflation}) + Provision$$

where:

A&G_n: A&G expense for the year n A&G_b:

A&G expense as per the norm

WPI inflation: is the average increase in the Wholesale Price Index (WPI) for immediately preceding three years

Provision: Cost for initiatives or other one-time expenses as proposed by the Distribution Licensee and validated by the Commission.

7.8.5.3 The Hon'ble Commission has also taken note of the increase in expenses from FY 2014-15 onwards and has agreed to consider the same after prudence check.

"7.10 The Commission reiterates that as per the Regulations, provisions for one-time expenses are there and the same shall be allowed on 'as and when basis' after due prudence check by the Commission."

7.8.5.4 The actual expense for first six months period from April-September 2016 is Rs. 9.36 Crores and projected H2 FY16-17 is at same level except office expense and legal & Professional.

7.8.5.5 The A&G expenses are estimated on higher side as compared to H1 of FY 2016-17 due to higher cost estimated for regulatory expenses, legal and professional fees and office expense.

7.8.5.6 The A&G expenses based on provisional and revised estimates for the FY 2016-17 computes to Rs. 21.32 Crores. The Hon'ble Commission is requested to approve A&G expenses as per projections for FY 2016-17.

7.8.5.7 In case the same is linked to the number of consumers base which has increased in past few years, the cost per consumers has witness a growth of marginally 6% which is far below then WPI/CPI index in those years. The details are highlighted as below:

Table 7-17: Justification of A&G Expenses for FY 2016-17

Particulars	Units	FY 2012-13	FY 2016-17	CAGR
A&G Cost	Rs. Crs	13.80	21.32	9.08%
No. of Consumers	No.	523615	591530	2.47%
Cost per consumer	Rs.	263.65	360.35	6.45%

7.8.5.8 EDG submits that the base considered by the Hon'ble Commission for determination of norms in the tariff order dated 18th April 2016 is on the lower side as the audited A&G cost for FY 2011-12 & FY 2012-13 is itself on a higher side as compare to the cost approved in FY 2013-14 & FY 2014-15 due to unavailability of the data. Since the data is available now, it is requested to the Hon'ble Commission to re-determine the norms of A&G expenses based on the audited figures of FY 2011-12 & FY 2012-13 to maintain the financial viability of the Department.

7.8.5.9 Accordingly, EDG request the Hon'ble Commission to approve the A&G cost as submitted in the petition.

7.8.6 **O&M Expenses Summary FY 2016-17:** Based on the foregoing paragraphs, the O&M expenses for the FY 2016-17 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

Table 7-18: O&M Expenses for FY 2016-17 - Rs. Crs.

SI.No.	Particulars	Approved in Order dated 18.04.16	H1	H2	FY16-17 Estimated
1	Employee Expenses	239.21	130.96	120.00	250.96
2	A&G Expenses	9.48	9.36	11.95	21.32
3	R&M Expenses	27.86	15.89	12.20	28.09
4	Total O&M Expenses	276.55	156.21	144.15	300.37

7.8.7 The Hon'ble Commission is requested to approve the O&M Expenses as shown in the table above. The details of O&M expense for FY 2016-17 are provided in the **Formats 14, 16 & 17** of the Tariff Filing Formats.

7.9 Capital Work in Progress, GFA and Depreciation

7.9.1 The Capital Work in Progress (CWIP), Gross Fixed Asset (GFA) and Depreciation for FY 2016-17 are discussed hereunder.

7.9.2 EDG would like to submit that the Gross Block considered in FY 2016-17 is based on audited figure of FY11-12 and FY12-13 and further addition is taken based on the approved figure of FY13-14- and FY14-15, also for FY15-16 actual provisional number taken while arriving at gross block for FY16-17.

7.9.3 EDG hereby submits a gist on the Capital Expenditure & Capitalisation for the FY 2016-17.

Table 7-19: Capital Expenditure & Capitalisation for FY 2016-17 – Rs. Crs.

S. No.	Name of Scheme	Capex during FY16-17	Capitalisation during FY16-17
1	Scheduled castes development scheme(P)	0.10	-
2	Schedule Tribe Development Scheme (P)	30.00	27.00
3	Infrastructure development through Electric	90.00	75.00
4	Erection and Augmentation of 33/11 KV S/S li	2.00	2.00
5	Normal Development Schemes (Plan)	18.00	18.00
6	System Improvement Schemes (Plan)	4.50	4.50
7	Construction of staff quarters and office buil	2.00	2.00
8	Erection of 220/33 KV 1X50 MVA Sub- Station	4.00	4.00
9	Erection of 220 KV line from Xeldem to Cunc	1.00	1.00
10	Strengthening of 220 KV Transmission Netwo	1.80	1.80
11	Restructured Accelerated Power Developme	100.00	100.00
12	Underground Cabling	20.00	20.00
13	Public Lighting Scheme	1.50	1.50
14	R-APDRP Part B / IPDS	52.07	25.00
15	EHV new Transmission / Sub-Station / Capaci	40.00	31.42
16	Total	366.97	313.22

7.9.4 As seen from the above table, the majority of the CAPEX incurred is for Infrastructure development schemes through APDRP, System Strengthening Schemes and R-APDRP. The total Capital Expenditure and Capitalization for FY 2016-17 as per estimates is Rs. 366.97 Crores and Rs. 313.22 Crores respectively. The detail of capital expenditure schemes for FY 2016-17 is provided in the **Format 5** of Tariff Filing Formats.

7.9.5 The details of opening Capital Works-in-Progress, investments during the year and investments capitalised for the year are summarised in the table below:

Table 7-20: CWIP for FY 2016-17 – Rs. Crs

CWIP for FY 2016-17		
Sr. No.	Particulars	FY 2016-17
1	Opening Balance	295.19
2	Add: New Investments	366.97
3	Total	662.16
4	Less Investment Capitalized	313.22
5	Closing Balance	348.94

7.9.6 The Opening Balance of GFA for FY 2016-17 comes to around Rs. 1,095.45 Crores. The additions to GFA are estimated to be around Rs. 463.22 Crores; the details of which are provided in the table below:

Table 7-21: Details of GFA for FY 2016-17 – Rs. Crs.

No	Particulars	Approved in Order dated 18.04.16	FY16-17 Estimated
1	Opening Gross Fixed Assets	888.87	1,095.45
2	Add: Capitalization approved/Estimated	182.55	313.22
3	Less: Capitalization through grants/through ED fund	96.00	150.00
4	Closing Gross Fixed Assets	975.42	1,258.67

7.9.7 The Regulation 23 of JERCMYT Regulations, 2014 provides for depreciation to be calculated. Further, as per the regulation, depreciation shall be calculated annually at the rate of depreciation specified by the JERC/ CERC from time to time. Therefore, in line with the Regulation, EDG has calculated the depreciation at Rs. 62.15Crores after excluding the capitalisation as per grants. The table below shows the working of Depreciation.

Table 7-22: Depreciation for FY 2016-17 – Rs. Crs.

No	Particulars	Approved in Order dated 18.04.16	FY16-17 Estimated
1	Opening Gross Fixed Assets	888.87	1,095.45
2	Add: Capitalization approved/Estimated	182.55	313.22
4	Less: Capitalization through grants	96	150.00
5	Closing Gross Fixed Assets	975.42	1,258.67
6	Average Gross Fixed Assets	932.15	1,177.06
7	Rate of Depreciation	5.28%	5.28%
8	Depreciation	49.22	62.15

7.9.8 The detail of GFA & Depreciation for FY 2016-17 is provided in the **Format 7 & Format 12** of Tariff Filing Formats respectively. The Hon'ble Commission is requested to approve the depreciation for the assets added during the year for FY 2016-17.

7.10 Interest & Finance Charge

7.10.1 As per regulation 24 (b) of MYT Regulations, 2014,

“(b) If the equity deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan.

Provided that where equity actually deployed is less than 30% of the capital cost, the actual loan shall be considered for determination of interest on loans.

...

(e) The repayment for the control period shall be deemed to be equal to the depreciation allowed for the year.”

7.10.2 The Regulation 24(b) provides for Interest and Finance Charges on Loan. EDG has submitted that the majority of capital assets are created out of the equity contribution from Government of Goa and the actual borrowing of loan is only to the extent of the APDRP schemes. EDG has computed loan balance and interest on loan

as per normative principles and methodology adopted by Commission in past orders.

7.10.3 The opening normative loan balances considered from the audited accounts of FY 12-13. additions to loan has been taken as 70% of additions to GFA after excluding on the amount of GFA for APDRP Part B schemes as they are proposed to be funded by grant. Normative loan repayments are considered same as depreciation amount for FY 2016-17.

7.10.4 The rate of Interest for long term Interest rate has been considered @ **14.05% i.e. at SBI lending rate** for FY 2016-17. It is requested to Hon'ble Commission to approve Interest rate on normative principles. The details of actual loan are provided at **Tariff Filing Format 10**.

7.10.5 EDG has not considered the Letter of Credit charges for payment security charges as directed by the Hon'ble Commission, as the same will be considered at the time of true up.

Table 7-23: Interest & Finance Charges for FY 2016-17 – Rs. Crs.

Sl.No.	Particulars	Approved in Order dated 18.04.16	FY16-17 Estimated
1	Opening Normative Loan	491.11	514.08
2	Add: Normative Loan during the year/GFA during the year	60.59	114.25
3	Less: Normative Repayment for the year	49.22	62.15
4	Closing Normative Loan/ GFA	502.48	566.19
5	Average Normative Loan	496.79	540.13
6	Rate of Interest	11.60%	14.05%
7	Interest on Normative Loan	57.63	75.89

7.10.6 The Hon'ble Commission is requested to approve the Interest & Finance Charges as shown in the table for FY 2016-17. The details of Interest & Finance charges are provided in **Format 10 of the Tariff Filing Formats**.

7.11 Interest on Working Capital

7.11.1 As per Regulation 25 of JERC MYT Regulations, 2014, interest on Working Capital for retail supply activity of the licensee shall consist of:

- Receivables for two months of billing
- Less power purchase cost of one month
- Less consumer security deposit but excluding bank guarantee/ fixed deposit receipt
- Inventory for two months based on annual requirement for previous year.

7.11.2 The Interest Rate is considered equivalent to the SBI Base Rate for the year FY 2016-17 which is at 9.30 %.

7.11.3 In line with the aforesaid regulation, the Interest on Working Capital works out to Rs.7.55 Crores for FY 2016-17 which is provided in the table below:

Table 7-24: Interest on Working Capital for FY 2016-17 – Rs. Crs.

SI.No.	Particulars	Approved in Order dated 18.04.16	FY16-17 Estimated
1	Receivables of 2 Months Billing	282.36	259.54
2	Less: Power Purchase Cost 1 Month	104.47	104.15
3	Less: Consumer Security Deposit Excl. BG/FDR	87.97	78.29
4	Add: Inventory Based on Annual Requirement for Previous FY for 2 months	-	4.24
5	Total Working Capital Requirement	89.92	81.34
6	SBAR Rate (%)	9.30%	9.30%
7	Interest on Working Capital	8.36	7.56

7.11.4 The Hon'ble Commission is requested to approve the Interest on Working Capital as presented in the table above. The details of Interest on Working Capital for FY 2016-17 are provided in **Format 18A of the Tariff Filing Formats**.

7.12 Interest on Security Deposit

7.12.1 As per the Regulation 6.10 (8) of Electricity Supply Code Regulations, 2010:

“The distribution licensee shall pay interest, at the bank rate notified by the Reserve Bank of India from time to time on such security deposits taken from the consumer. In this regard it shall be the responsibility of the licensee to keep a watch on the bank rate from time to time.

The interest amount of previous financial year shall be adjusted in the energy bill issued in May/ June of each financial year depending on billing cycle.”

7.12.2 The provision of interest on security deposits is to be made at the bank rate. The prevailing Bank rate is considered at 7.75% as notified by Reserve Bank of India vide circular dated 4th March 2015.

7.12.3 In lieu of the above, Interest on Security Deposit is calculated at Rs 6.06 Crores on cash security deposit amounts excluding Bank Guarantee & Fixed Deposit Receipts. The table below shows details of Interest on Security Deposit for FY 2016-17:

Table 7-25: Interest on Security Deposit for FY 2016-17 – Rs. Crs.

Sl.No.	Particulars	Approved in Order dated 18.04.16	FY16-17 Estimated
1	Opening Security Deposit	87.97	71.04
2	Add: Deposit during the year	1.46	18.13
3	Less: Deposits refunded		3.62
4	Less: Deposits in form of BG/FDR		-
5	Closing Security Deposit	89.43	85.55
6	RBI Bank Rate	7.75%	7.75%
7	Interest on Security Deposit	6.82	6.06

7.12.4 The Hon'ble Commission is requested to approve the Interest on Security Deposit as showcased in the table above. However, since the above amount has not yet been paid to the consumers, the issues related to the same has been separately addressed in the subsequent chapter. The details of Interest on Security Deposit for FY 216-17 are provided in **Format 19-A** of the Tariff Filing Formats.

7.13 Return on Equity

7.13.1 The proviso of Regulation 27 of MYT Regulations 2014 provides for entitlement for Return on Equity. As per the regulations, RoE is allowed @16% on 30% of the capital base or actual equity, whichever is lower. However, assets funded by consumer contribution, capital subsidies/grants and corresponding depreciation shall not form part of the capital base.

7.13.2 In line with the regulation and the methodology proposed in the MYT Regulations, 2014, EDG has calculated the Return on Equity as outlined in the following table for FY 2016-17.

7.13.3 The opening balance of assets and accumulated depreciation are considered as per audited account of FY 12-13 and further provisional actual numbers used to arrive at the FY16-17 numbers of opening equity amount.

Table 7-26: Opening Balance of Equity as on FY 2016-17 – Rs. Crs

Sr. No.	Particulars	Amount
	Calculation of Opening Balance of Equity	
1	Cl. Balance of GFA as on 31st March 2015	1,191
2	Electricity Duty utilised from FY 2008-09 to FY 2010-11	64
3	Additional of Electricity Duty Fund from FY 2011-12 to FY 2014-15	115
4	Op. Balance of Equity as on 1st April 2015 = (1-2-3)*30%	304
5	Add: capitalisation in FY 2015-16 = 30% of GFA Excluding grants	38
6	Cl. Balance of Equity as on 1 st April 2016	342

7.13.4 The table below shows Return on Capital Base for FY 2016-17:

Table 7-27: Return on Capital Base for FY 2016-17 – Rs. Crs

Sl.No.	Particulars	Approved in Order dated 18.04.16	FY16-17 Estimated
1	Opening Equity Amount	266.66	341.64
2	Equity Addition during year (30% of Capitalization)	25.97	48.97
3	Closing Equity Amount	292.63	390.61
4	Average Equity Amount	279.64	366.13
5	Rate of Return on Equity	16.00%	16%
6	Return on Equity	44.74	58.58

7.13.5 The Hon'ble Commission is requested to approve the Return on Capital Base at Rs. 58.58 Crores as shown in the table above. The details of Return on Capital Base for FY 2016-17 are provided in Format 6 of the Tariff Filing Formats.

7.14 Non-Tariff Income

7.14.1 Non-Tariff Income comprises of proceeds from sale of dead stock, waste paper, Receipt from State Electrical Inspectorate and other miscellaneous receipts. The Non-Tariff Income for the year FY 2016-17 comes to Rs. 14.76 Crores.

7.14.2 The details of Non-Tariff Income for FY 2016-17 are provided in **Format 20 of the Tariff Filing Formats.**

7.15 Revenue from Retail Sale of Power

7.15.1 The provisional revenue from sale of power including FPPCA charges for H1 of FY 2016-17 is Rs. 778.62 Crores including FPPCA of Rs. 35.32Crores. The category wise details of revenue are provided in Format 26 Rev FY16 of the MYT Filing Formats.

7.15.2 The estimated revenue from sale of power for H2 of FY 2016-17 is Rs. 778.62 Crores including FPPCA of Rs. 35.32 Crores. The FPPCA for Q2 i.e. July to Sep 2016 to be levied in Oct to Dec 2016 and the FPPCA for Q3 i.e. Oct to Dec 2016 to be levied in Jan 2017 to March 2017 is usually considered. However, since the latest data available is related to July to Sep 2016 FPPCA, the same is considered as a base for calculation in revenue. The category wise details of revenue are provided in Format 26 REV FY16 of the MYT Filing Formats.

7.15.3 The overall revenue from sale of power for FY 2016-17 computes to Rs. 1,557.24 Crores and Hon'ble commission is requested to approve the same.

Petition for True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination for FY 2017-18

Table 7-28: Revenue from Sale of Power for FY 2016-17

Sl.No.	Particulars	Approved in Order dated 18.04.16		FY16-17 H1		FY16-17 H2		FY16-17 Estimated	
		Units (Mus)	Amt (Rs. Crore)	Units (Mus)	Amt (Rs. Crore)	Units (Mus)	Amt (Rs. Crore)	Units (Mus)	Amt (Rs. Crore)
1	Low Tension-D/LT-D	866.95	263.55	557	135.45	557	135.45	1,113.55	270.89
2	Low Tension-LIG/LT-LIG	1.10	0.11	3	0.34	3	0.34	5.82	0.68
3	Low Tension-DM/LT-DM	12.26	5.08					-	-
4	High Tension-D/HT-D	0.26	0.15	0	0.07	0	0.07	0.23	0.14
5	Sub-total Domestic -Overall	880.58	268.89	560	135.85	560	135.85	1,119.60	271.71
6	COMMERCIAL								
7	Low Tension-C/LT-C	295.18	144.10	177	83.52	177	83.52	353.98	167.04
8	High Tension-C/HT-C	73.28	45.01	32	25.47	32	25.47	63.34	50.93
9	Sub-total Commercial -Overall	368.46	189.11	209	108.99	209	108.99	417.32	217.98
10	Industrial								
11	Low Tension-I/LT-I	125.38	45.66	37	15.54	37	15.54	73.67	31.09
12	Low Tension-Mixed/LT-P (Hotel Industries)	4.39	2.13	25	8.50	25	8.50	49.88	17.00
13	High Tension-I/HT-I	1,295.96	629.22	583	355.36	583	355.36	1,166.46	710.71
14	High Tension-Ferro/SM/PI/SR	561.19	258.01	253	125.29	253	125.29	506.67	250.57
15	Sub-total Industrial -Overall	1,986.92	935.02	898	504.68	898	504.68	1,796.68	1,009.37
16	Low Tension-AG/LT-AG	23.86	3.60	9	1.35	9	1.35	17.56	2.70
17	High Tension-AG/HT-AG	6.08	1.20	20	3.26	20	3.26	40.08	6.51
18	Sub-total Agricultural -Overall	29.94	4.80	29	4.61	29	4.61	57.63	9.21
19	Military Engineering Services/Defense Establishments	26.89	11.43	13	7.32	13	7.32	25.42	14.64
20	Public Lighting	36.95	14.87	3	7.81	3	7.81	6.99	15.62
21	Hoardings/Signboards	0.35	0.24	0	0.12	0	0.12	0.19	0.23
22	Temporary Supply	22.08	16.89	7	7.62	7	7.62	14.02	15.24
23	LT Temporary Domestic	17.47	12.29	1	0.71	1	0.71	2.12	1.42
24	LT Temporary Commercial	4.61	4.60	6	6.87	6	6.87	11.81	13.73
25	H Temporary Supply			0	0.04	0	0.04	0.09	0.08
26	Single Point Supply	-	-	3	1.62	3	1.62	6.00	3.24
27	Residential Complexes			-	-	-	-	-	-
28	Commercial Complexes			3	1.62	3	1.62	6.00	3.24
29	Industrial Complexes			-	-	-	-	-	-
32	Total Revenue from Sale of Power	3,352.16	1,441.26	1,722	778.62	1,722	778.62	3,443.85	1,557.24

7.16 Aggregate Revenue Requirement for FY 2016-17

7.16.1 Based on the submissions made in the foregoing paragraphs, the net Aggregate Revenue Requirement for the year FY 2016-17 and the revenue gap is shown in the table below:

Table 7-29: Aggregate Revenue Requirement for FY 2016-17 - Rs. Crs

Sl.No.	Particulars	Approved in Order dated 18.04.16	FY16-17 H1	FY16-17 H2	FY16-17 Estimated
1	Cost of Power Purchase	1,245.03	627.91	621.84	1,249.74
2	Provision for RPO Compliance	8.55			-
3	Employee Expenses	239.21	130.96	120.00	250.96
4	R&M Expenses	27.86	15.89	12.20	28.09
5	A&G Expenses	9.48	9.36	11.95	21.32
6	Depreciation	49.22	31.07	31.07	62.15
7	Interest on Loan	57.63	37.94	37.94	75.89
8	Interest on Consumer Security Deposit	6.82	3.03	3.03	6.06
9	Interest on Working Capital	8.36	3.78	3.78	7.56
10	Return on Equity	44.74	29.29	29.29	58.58
11	Provision for Bad Debit	-	-	-	-
12	Provision for DSM Expenses	3.98	1.99	1.99	3.98
13	Total Revenue Requirement	1,700.87	891.23	873.10	1,764.33
14	Less: Non-Tariff Income	6.74	7.38	7.38	14.76
15	Net Revenue Requirement	1,694.13	883.85	865.72	1,749.58

7.16.2 The Hon'ble Commission is requested to approve the net ARR of FY 2016-17 computed at Rs. 1,749.58 Crores as per revised projections.

Table 7-30: Revenue Gap for FY 2016-17 - Rs.Crs

Sl.No.	Particulars	Approved in Order dated 18.04.16	FY16-17 H1	FY16-17 H2	FY16-17 Estimated
1	Net Revenue Requirement	1,694.13	883.85	865.72	1,749.58
2	Revenue from Sale of Power	1,441.26	778.62	778.62	1,557.24
3	Net Gap During the Year	252.87	105.23	87.10	192.34

7.16.3 EDG submits that the Revenue gap of Rs. 192.34 Crores is carried forward to next year for appropriate treatment.

CHAPTER 8.ARR FOR FY 2017-18

8.1 Preamble

8.1.1 The Joint Electricity Regulatory Commission (JERC) has notified the Regulations, JERC (Multi Year Distribution Tariff) Regulations, 2014 on 29th May 2014 for the determination of tariff for the first control period based on certain norms of operation and financial parameters.

8.1.2 The JERC (Multi Year Distribution Tariff) Regulations, 2014 hereafter referred to as MYT Regulations, 2014 clearly states for the Hon'ble Commission to determine the tariff under MYT framework for the first control period. The relevant section is quoted below for reference:

"4.1 The Commission shall determine the tariff for distribution business of electricity under a Multi-Year Tariff framework with effect from April 1, 2015

8.1.3 The Commission has also notified the first amendment to JERC MYT Regulations dated 10th August, 2015 wherein it has amended the definition of control period in the following manner.

"3.1.6. "Control Period" means multi-year period comprising of three financial years of FY2016-17 to FY 2018-19, and as may be extended by the Commission, for submission of forecast in accordance with these Regulations;

8.1.4 Based on the MYT regulations and its amendment and the Business Plan Order dated 22nd December, 2015, EDG filed the MYT petition for the Control Period i.e. FY 2016-17 to FY 2018-19. After thorough analysis and scrutiny the Hon'ble Commission vide Tariff Order dated 18th April, 2016 approved the ARR for all three years of the Control Period and determined tariff for FY 2016-17.

8.1.5 This chapter provides the details of the expenditure approved by the Hon'ble Commission for the FY 2017-18 vide Tariff Order dated 18th April, 2016. Accordingly, the revenue from the existing tariff with the Revenue gap / (surplus) is determined so as to propose the tariff design / proposal for recovery from the consumers during the FY 2017-18.

8.2 Principles for determination of ARR

8.2.1 The Annual Revenue Requirement for the FY 2017-18 is considered as approved by the Hon'ble Commission in the MYT / Tariff Order dated 18th April, 2016.

8.3 Sales, Connected Load and Number of Consumers for FY 2017-18

8.3.1 The Sales, Connected Load and number of consumers as approved by the Hon'ble Commission in Tariff Order dated 18th April, 2016 is considered for FY 2017-18 and is tabulated below.

Table 8-1: Sales, Connected Load and Number of Consumers for FY 2017-18

S. No.	Particulars	Sales (MUs)		Consumers (No.)		Connected Load (kW)	
		Submitted	Approved	Submitted	Approved	Submitted	Approved
1	Domestic						
	Low Tension-D/LT-D	923.87	923.87	486985	486985	1354057	1354057
	Low Tension-LIG/LT-LIG	1.10	1.10	3049	3049	338.01	338.01
	Low Tension-DM/LT-DM	13.49	13.49	4399	4399	13044	13044
	High Tension-D/HT-D	0.25	0.27	2	2	392.88	192.88
2	COMMERCIAL						
	Low Tension-C/LT-C	309.93	309.93	91048	91048	281533.2	281533.2
	High Tension-C/HT-C	69.90	76.10	118	116	83455.93	42566.93
3	INDUSTRIAL						
	Low Tension-I/LT-I	131.26	131.26	6403	6403	115579.9	115579.9
	Low Tension-Mixed/LT-P (Hotel Industries)	4.83	4.83	222	222	4284.78	4284.78
	High Tension-I/HT-I	1422.19	1345.82	764	645	417220.2	417220.2
	High Tension-Ferro/SM/PI/SR	571.84	571.84	37	37	114756	114756
4	AGRICULTURAL						
	Low Tension-AG/LT-AG	23.86	23.86	10821	10821	34481.27	34481.27
	High Tension-AG/HT-AG	6.08	6.08	41	41	8378	8378
5	MILITARY ENGINEERING SERVICES/DEFENSE ESTABLISHMENTS						
	All Units	26.89	26.89	12	12	7080	7080
6	PUBLIC LIGHTING						
	All Units	36.95	36.95	2740	2740	9597.85	9597.85
7	HOARDINGS/SIGNBOARDS						
	All Units	0.35	0.35	104	104	35	35
8	TEMPORARY SUPPLY						
	LT Temporary	22.08	22.08	2581	2581	1097.61	1097.61
9	Overall LT Sales	1467.72	1467.72	608352	608353	1814049	1814049
10	Overall HT Sales	2097.15	2027.00	974	854	631283	590194
11	Total Sales	3564.87	3494.72	609326	609207	2445332	2404243

8.3.2 The Hon'ble Commission had approved 3494.72 MUs as sales, 6.09 lakh consumers and 24.04 Lacs kW as connected load for FY 2017-18.

8.4 Intra-State Transmission and Distribution Losses, Inter-State Transmission Losses and Energy Efficiency

8.4.1 EDG has been making efforts to reduce its intra state transmission losses and as per the Tariff Order dated 18th April, 2016, the Hon'ble Commission has approved 11.00% Intra-state losses for FY 2017-18. EDG has considered the same for the present filing.

8.4.2 The Hon'ble Commission has also approved inter-state transmission losses at 4.17% in the last tariff order while determining the power purchase cost and ARR for FY 2017-18

8.4.3 The Hon'ble Commission has also approved 78.60 MUs as energy savings annually due to implementation of DSM based efficient lighting programme (DELP) under DSM programme in the State of Goa.

Table 8-2: T&D Loss and Energy savings under DELP

Particulars	FY 2017-18	
	Submitted	Approved
Intra-state T&D Loss (%)	11.00%	11.00%
Inter-state transmission loss (%)	4.17%	4.17%
Energy Savings -DELP (MUs)	78.60	78.60

8.5 Energy Balance

8.5.1 Based on the approved Sales and distribution loss for FY 2017-18, the energy requirement approved by the Hon'ble Commission is shown in the following table:

Table 8-3: Energy Requirement approved for FY 2017-18

S.No.	Particulars	FY 2017-18
1	Sales within UT (MUs)	3494.71
2	Savings under DELP (MUs)	78.60
3	Total Sales	3416.11
4	Intra State Transmission Loss (%)	11.00%
	Intra State Transmission Loss (MUs)	422.21
5	Sales to common pool consumers/Banking return	0.00
6	Energy requiremnt at periphery(MUs)	3838.32
7	Inter State Transmission Loss (%)	4.17%
	Inter State Transmission Loss (MUs)	160.00
8	Energy Required at Generator End	3998.32
9	GROSS AVAILABILITY (MUs)	
	Co-generation (within State)	167.24
	Power purchase from R.E. Sources -Solar	50.56
	Power purchase from R.E. Sources -Non Solar	34.69
	NPCIL	188.20
	New Hydro Stations	11.03
	NTPC and Other Stations	3546.61
10	PXIL (Buy) to match the Energy Requirement	0.00
11	Net power purchase (in MUs)	3998.32
12	Gross Purchase including PXIL (in MUs)	3998.32

8.6 Power Purchase Cost for FY 2017-18

8.6.1 Based on the share allocation and power availability from various plants, the Hon'ble Commission had approved power purchase quantum and power purchase cost for the FY 2017-18 in its tariff order dated 18th April, 2016. The comparison between the power purchase projected and approved by the Hon'ble Commission in the said order is furnished below.

Table 8-4: Power Purchase Quantum and Cost for FY 2017-18

Sources	Submitted		Approved	
	Power Purchase Quantum (MUs)	Power Purchase Cost (Rs Crs)	Power Purchase Quantum (MUs)	Power Purchase Cost (Rs Crs)
NTPC	3619	974.13	3546.61	900.58
NPCIL	203	59.9	188.2	48.59
Hydro Power	5		11.03	4.41
Renewable Power	76	48.6	85.26	45.83
Traders/ Open Market	46	13.86		
Co-generation	167	40.26	167.24	40.13
Transmission Charges		222.5		291.45
Total	4117	1359.26	3998.32	1330.98
Average Cost (Rs/kWh)		3.30		3.33

8.7 ARR for FY 2017-18

8.7.1 The annual revenue requirement approved by the Hon'ble Commission for the FY 2017-18 is tabulated below.

Table 8-5: ARR for the FY 2017-18 – Rs. Crs

S. No.	Particulars	Submitted	Approved
1	Cost of power purchase	1359.26	1330.98
2	Provision for RPO Compliance		9.38
3	Employee Costs	261.20	254.24
4	A&G Expenses	13.80	10.12
5	R&M expenses	53.05	30.57
6	Depreciation	56.92	64.16
7	Interest on loan	73.87	74.04
8	Interest on Working Capital	7.47	9.9
9	Interest on Security Deposit	7.70	6.93
10	Return on NFA/ Equity	48.33	58.33
11	Provision for DSM Expenses	4.34	3.41
12	Total Revenue Requirement	1885.94	1852.06
13	Less: Non- Tariff Income	6.74	6.74
14	Net Aggregate Revenue Requirement	1879.20	1845.32

8.8 Revenue from Sale of Power at Existing Tariff

8.8.1 The Revenue from sale of power at existing tariff for FY 2017-18 is outlined below for assessing the Revenue gap / (surplus) for the ensuing year.

Table 8-6: Revenue from Sale of Power for FY 2017-18

S. No.	Particulars	Sales (MUs)	Revenue (Rs.Crs)
A	DOMESTIC		
1	Low Tension-D/LT-D		
	0-100 units	87.54	17.97
	101-200 units	203.36	46.54
	201 to 400 units	274.50	89.65
	Above 400 units	358.47	145.22
2	Low Tension-LIG/LT-LIG	1.10	0.11
3	High Tension-D/HT-D		
	All Units	0.27	0.17
4	Sub-total Domestic -Overall	925.24	299.66
B	COMMERCIAL		
5	Low Tension-C/LT-C		
	0-200 units	41.84	19.01
	201 units- 400 units	194.96	94.21
	Above 400 units	86.62	48.58
6	High Tension-C/HT-C		
	All Units	76.10	60.48
7	Sub-total Commercial -Overall	399.52	222.28
C	INDUSTRIAL		
8	Low Tension-I/LT-I		
	0-500 units	62.29	24.02
	Above 500 units	68.97	28.65
9	Low Tension-Mixed/LT-P (Hotel Industries)		
	All Units	4.83	2.57
10	High Tension-I/HT-I		
	Connected at 11/33 kV	1203.59	687.64
	Connected at 110 kV	142.23	89.68
11	High Tension-Ferro/SM/PI/SR		
	All Units	571.84	310.05
12	Sub-total Industrial -Overall	2053.75	1142.62
D	Agricultural		
13	Low Tension-AG/LT-AG		
	All Units	23.86	3.63
14	High Tension-AG/HT-AG		
	All Units	6.08	1.21
15	Sub-total Agricultural -Overall	29.94	4.85
16	Military Engineering Services/Defense Establishments		
	All Units	26.89	16.52
17	Sub-total MES/DE -Overall	26.89	16.52
E	Public Lighting		
	All Units	36.95	16.42
18	Sub-total Public Lighting -Overall	36.95	16.42
F	Hoardings/Signboards		
	All Units	0.35	0.39
19	Sub-total Hoardings/Signboards -Overall	0.35	0.39
G	Temporary Supply		
	LT Temporary Domestic	22.08	17.17
	LT Temporary Commercial	0.00	0.00
20	Sub-total Temporary -Overall	22.08	17.17
21	Overall LT Sales	1467.72	554.15
22	Overall HT Sales	2027.00	1165.76
23	Total Revenue from Sale of Power	3494.72	1719.91

8.8.2 EDG hereby submits that the revenue as calculated above based on the existing tariff also includes the FPPCA charges as it is expected that FPPCA charges will continue in FY 2017-18 in a similar line. Therefore, FPPCA charges as per Q2 of FY 2016-17 has been considered for the projection purpose. In view of above, the Hon'ble Commission is requested to kindly allow Revenue at existing tariff as proposed for FY 2017-18.

8.9 Revenue Gap for FY 2017-18

8.9.1 The revenue gap as calculated on the basis of the revenue at existing tariff for FY 2017-18 is shown in the table below:

Table 8-7: Revenue Gap for FY 2017-18 –Rs. Crs

S. No.	Particulars	Claimed by Petitioner
1	Aggregate Revenue Requirement	1845.32
2	Revenue from Sale of Power (including FPPCA)	1719.91
3	Revenue Gap/ (Surplus)	125.41

8.9.2 In view of above, the Hon'ble Commission is requested to kindly approve the revenue gap of Rs. 125.41 Crs during FY 2017-18.

8.9.3 EDG in the subsequent chapters has proposed the required adjustment in tariff to consider the total gap accumulated from FY 2011-12, FY 2012-13 and FY 2015-16 to FY 2017-18.

CHAPTER 9. ADDITIONAL CLAIM AND PROPOSAL TO MEET ARR AND REVENUE GAP OF FY 2017-18

9.1 Preamble

- 9.1.1 EDG in determining the ARR and retail supply tariff for FY 2017-18 has been guided by the provisions of the Electricity Act 2003, National Tariff Policy, MYT Regulations 2014 and any other applicable law, enactments, Orders, etc as amended from time to time.
- 9.1.2 EDG submits that this section covers the additional claims apart from the revenue gap claimed while computing ARR of the respective years and the total revenue gap to be recovered in FY 2017-18.
- 9.1.3 This section overall provides a detailed overview of each and every claim considered in calculation of total revenue gap of EDG.

9.2 Additional Claim

- 9.2.1 EDG submits that in the previous tariff order dated 18th April 2016, apart from the approval of ARR for the Control Period, the Hon'ble Commission has also provisioned for interest on Security deposits to be paid to the consumers.
- 9.2.2 As per section 47(4) of the electricity Act 2003, the Electricity Department has to pay the interest to the consumers on security Deposit held by the Department with effect from financial year 2011-12 onwards by giving credit in their energy bills.
- 9.2.3 In this regards, Under Secretary Finance (Budget –I), Finance Budget Department, Secretariat, Porvorim has already issued a circular under reference No. 1/15/2013/Fin(Bud) dated 03/09/2013 with detailed procedure for creating security deposit interest to the consumers. As per para 3 of the circular, the Finance Department will open a new unit of appropriation for accounting payment of interest on security deposits of the consumers.
- 9.2.4 In this context, Finance (Budget) Department has already conveyed the approval to the Directorate of Accounts Panaji vide their letter No. 1-9-2008/Fin(Bud) dated 08/07/2013 for opening of new unit under expenditure head under Demand:A-2
- 9.2.5 Similarly approval has also been conveyed to the Directorate of Accounts, Panaji for opening of new unit under expenditure head for meeting the requirement of this

Department to enable for transfer of the interest from Budget Head.

- 9.2.6 As regard, the interest payable to the consumers for FY 2011-12, 2012-13 and 2013-14, the Finance Department has already made budget provision of Rs. 862.47 lakhs in the supplementary grants and accordingly as per the request of this Department the same has been transferred to the Budget head in order to credit in the Consumers bill and directions in the matter have already been issued to all concerned and the process of the crediting the same is in progress.
- 9.2.7 However, it is observed that no provision was made for FY 2014-15 and FY 2015-16 and the said head of account was deleted from the budget estimates though there was the provision in the above referred circular that the Finance Department should create budget head with the required budgetary provision. Accordingly this department has forwarded the proposal to the government on 07/09/2016 for making necessary provision of Rs 1017.92 lakhs in the supplementary grants batch-II for the year 2016-17 for payment of Interest on Security deposit for FY 2014-15 & FY 2015-16. The proposal has been approved by the government in principle vide No.1400028757 dated 23/11/2015.
- 9.2.8 In the meantime the EDG has already requested the Directorate of Accounts, Panaji to make budget provision of Rs. 4.80 Crs in the supplementary grant for FY 2015-16 for which, the Directorate of Accounts has already arranged the fund which has parked under public Account and same will be available after opening of above Head of Account.
- 9.2.9 The head of account was opened during 2013-14 and was in existence in budget estimate for FY 2014-15. However, the said Head of Account is not appearing in the budget Estimate for 2015-16 and 2016-17 resulting in issue of disbursement.
- 9.2.10 The proposal is therefore resubmitted for making necessary provision of funds during supplementary grants Batch-II for 2016-17 under the head of account 2049-60-101-10-45 for an amount of Rs. 1017.92 Lakhs.
- 9.2.11 Still, against the provision of the interest on security deposit for FY 2011-12 and FY 2012-13, EDG has claimed in ARR, only the amount paid to consumers and the balance is requested to the Hon'ble Commission to allow to claim in FY 2017-18. The additional amount to be claimed is as follows:

Table 9-1: Balance Interest on Consumer security deposit for FY 2011-12 and FY 2012-13

Sr. No.	Particulars	True Up	
		FY 2011-12	FY 2012-13
1	2	3	4
1	Opening Security Deposit	76.74	90.58
2	Add: Deposits during the Year	17.65	21.54
3	Less: Deposits refunded	3.82	5.54
4	Closing Security Deposit	90.58	106.58
5	Bank Rate	6.00%	9.50%
6	Interest on Security Deposit *	5.02	9.36
7	Interest paid	0.14	0.23
8	Balance Payable in FY 2017-18	4.88	9.13
9	Total unpaid interest claimed	14.01	

9.2.12 In line with the above submission, EDG requests the Hon'ble Commission to allow the provision of unpaid security deposit of Rs. 14.01 Crs to be included in the total revenue gap to be recovered in FY 2017-18. For the other respective years, the amount as computed in line with the Regulations are claimed in ARR>.

9.3 Cumulative Revenue Gap of FY 2017-18

9.3.1 It is submitted that that revenue gap for past years i.e. from FY 2013-14 to FY 2015-16 is not being claimed as the audited accounts are yet to be finalized. The same would be claimed once financial statements are ready and separate true-up petition would be filed before JERC or may be merged in subsequent tariff filing petitions.

9.3.2 EDG submits that the said current petition covers past 7 years which includes True-up for FY 2011-12 and FY 2012-13, Approved ARR for FY 2013-14 and FY 2014-15, Annual Performance Review of FY 2015-16 and FY 2016-17 and Tariff determination for FY 2017-18. However, for the gap from FY 2011-12 to FY 2012-13, the same is adjusted against the budgetary support as provided in the respective chapters of this petition. The gap for FY 2013-14 to FY 2015-16 will be treated at the time of true-up petition and hence EDG is not addressing the gap of those respective years. Therefore, the Revenue Gap is calculated along with the additional adjustment from FY 2016-17 to FY 2017-18. The following table shows the cumulative revenue gap up to FY 2017-18 based on the ARR projected and revenue at existing tariff arrived in previous chapters.

Table 9-2: Cumulative Revenue gap to be claimed in FY 2017-18

Particulars	True Up		Previous Years (Approved)		Previous Year - Provisional	Current Year - Provisional	Ensuing Year – Approved
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Net ARR	1,288	1,312	1,153	1,360	1,549	1,750	1,845
Less: Revenue at Existing Tariffs	856	974	1,014	1,147	1,235	1,557	1,720
Revenue Gap for the year	431	339	139	213	314	192	125
Opening Balance of Gap		-	-	-	-	-	9
Add: Past Gap							
<i>Gap for FY 2011-12</i>	431						
<i>Gap for FY 2012-13</i>		339					
<i>Gap for FY 2013-14</i>			139				
<i>Gap for FY 2014-15</i>				213			
<i>Gap for FY 2015-16</i>					314		
<i>Gap for FY 2016-17</i>						192	
<i>Gap for FY 2017-18</i>							125
Total Cumulative Gap for years	431	339	139	213	314	192	135
Less: Budgetary Support	431	339				183	
Gap to be recovered from Consumers	-	-	139	213	314	9	135
Less: To be addressed at the time of True-up			139	213	314		
Balance Gap to be recovered	-	-	-	-	-	9	135
Less: Proposed recovery in FY 2017-18	-	-	-	-	-		135
Balance Gap to be recovered		-	-	-	-	9	-
Additional Past recoveries							
Accumulated Interest on Security Deposit to be paid in MYT Period							14
Balance Gap to be recovered							149
Less: Budgetary Support from Government of Goa							149
Proposed Gap Recovery in FY 2017-18							0%
Proposed Tariff hike from last year							

9.3.3 It is submitted that EDG is into regulatory regime under JERC from FY 2011-12 onwards and so far has got tariff revision wef 1.6.2012 for 11.8 %, wef 1.4.2014 for 7.6%, wef 1.4.2015 for 14% and wef 1.4.16 for 4.85%. However, EDG feels that considering the past trend of the tariff hike, it doesn't want to over burden the

consumers by tariff hike and shock and therefore proposed to meet the gap from the budgetary support to be provided by the Government of Goa.

- 9.3.4 EDG proposes to meet the above cumulative revenue gap till FY 2017-18 entirely by budgetary support by Government of Goa of Rs. 149 crores.
- 9.3.5 The documents for the Budgetary Support assurance from Government of Goa has been enclosed under Affidavit as Annexure 3.
- 9.3.6 However EDG submits that pending finalization of audited accounts for relevant years under consideration, the revenue gap may be provisionally recognized by Hon'ble Commission and due treatment be given for recovery at a later date when petition for true-ups are filed based on actual accounts / figures of revenue gap.

CHAPTER 10. TARIFF PHILOSOPHY

10.1 Preamble

10.1.1 This section elucidates the proposed revision in the retail tariff and proposed amendments in the retail tariff schedule to be applicable for FY 2017-18. PED prays the Hon'ble Commission to approve the revision of retail tariff for FY 2017-18 as proposed for different categories of consumers, applicable from April 1'2017.

10.2 Tariff Design Principles

10.2.1 Over the years, Hon'ble Commission has been guided by the Electricity Act, 2003 and the National Tariff Policy while determining retail tariffs across the Goa. Hon'ble Commission has always laid emphasis on adoption of factors that encourages economy, efficiency, effective performance and improved conditions of supply. On these lines Hon'ble Commission, in this order too, may apply similar principles keeping in view the ground realities.

10.3 Philosophy of Tariff Design

10.3.1 EDG submits that to recover the total proposed cumulative Revenue Gap of Rs. 136 Crs till FY 2017-18, no hike is proposed by EDG and the same will be met through budgetary support to be provided by the State Government of Goa. Therefore, EDG is not proposing any tariff hike in FY 2017-18.

10.3.2 Accordingly, EDG proposes the similar existing tariff of FY 2016-17 to be continued in FY 2017-18 and is highlighted below:

Table 10-1: Proposed Tariff Structure for FY 2017-18

Approved Tariff Structure – Proposed to be continued for FY 2017-18				
Sr. No.	Category of Consumer	Fixed charge basis	Fixed charges (Rs)	Energy Charges (Rs/kWh)
A	Low Tension Supply			
1(a)	Tariff LTD/Domestic			
	0 - 100 Units	Rs/Conn/ Month - Single Phase	20	1.30
	101 - 200 Units		20	1.90
	201 - 300 Units	Rs/Conn/ Month - Three Phase	45	2.40
	301 - 400 Units		45	3.10
	401 and above		45	3.60
1(b)	Tariff LTD/Low Income Group	Rs/Conn/ Month	30	-
2	Tariff-LTC/Commercial			
2(a)	0-20 KW Commercial consumers			
	0- 100 units		50	3.25
	101- 200 units		50	3.90
	201- 400 units	Rs/Conn/ Month	50	4.30

Approved Tariff Structure – Proposed to be continued for FY 2017-18				
Sr. No.	Category of Consumer	Fixed charge basis	Fixed charges (Rs)	Energy Charges (Rs/kWh)
	Above 400 units	Rs/Conn/ Month	50	4.70
2(b)	>20-90kW Commercial consumers			
	0 - 100 units	Above 20kW-90 kW. Rs.50/Conn/month + additional Rs.55/kW for every kW increase above 20 kW		3.25
	101 - 200 units			3.90
	201 - 400 units			4.30
	Above 400 units			4.70
3	Tariff-LTI/ Industry			
	0 - 500 units	Rs/HP/ Month	30	3.10
	Above 500 units	Rs/HP/ Month	30	3.50
4	Tariff-LTP/Mixed (Hotel Industries)	Rs/kW/ Month	30	4.50
5	Tariff-LTAG/Agriculture (A)	Rs/HP/ Month	12	1.30
	Tariff-LTAG/Agriculture Allied (B)	Rs/HP/ Month	20	1.60
6	Tariff-LTPL/Public Lighting	Rs/kW/ Month	40	3.90
7	Tariff-LTH/ Hoardings & Signboards	Rs/kVA/ Month	60	9.90
8	Tariff-LTTS/ Temporary Supply		-	-
	Temporary - Domestic	Rs/kW/ Month	60 with minimum Rs. 300	7.00
	Temporary - Commercial	Rs/kW/ Month	100 with minimum Rs. 500	9.90
B	High Tension Supply			
9	Tariff HTI/Industrial			
	Connected at 11 / 33 kV	Rs/kVA/ Month	250	4.30
	Connected at 110 kV	Rs/kVA/ Month	250	4.20
10	Tariff HTFS Industrial (Ferro Metallurgical / Steel Melting/ Power Intensive/ Steel Rolling)	Rs/kVA/ Month	250	4.30
11	Tariff-HTC/Commercial	Rs/kVA/ Month	250	5.50
12	Tariff-HTAG/Agriculture (A)	Rs/kVA/ Month	35	1.40
	Tariff-HTAG/Agriculture (B)	Rs/kVA/ Month	50	1.80
13	Tariff-HTD/Domestic	Rs/kVA/ Month	150	4.40
14	Tariff HTMES/Defence Establishments	Rs/kVA/ Month	175	5.00
15	Tariff-HTTS/ Temporary Supply	Rs/kVA/ Month	120	9.90
D	Single Point Supply			
	Residential Complexes (RC)	Rs/kVA/ Month	100	3.10
	Commercial Complexes (CC)	Rs/kVA/ Month	200	4.30
	Industrial Complexes (IC)	Rs/kVA/ Month	200	3.90

10.3.3 Since there is no hike sought, EDG also propose no change in any of the tariff category and is of the view to maintain the tariff structure as approved by the Hon'ble Commission.

10.3.4 However, in some of the categories, the applicability clauses needed more clarity for better implementation.

10.4 Tariff Rationalisation

10.4.1 Certain proposal in the clarification or changes in the applicability of the clause has been suggested keeping in mind the consumers suggestions and practices in neighbouring states.

10.4.2 EDG has modified / fine-tuned applicability clauses in some of the categories for clarity and better implementation. The changes proposed in the applicability are discussed detailed and highlighted in proposed LT & HT Tariff Schedule and the brief feature is highlighted below:

- Separate treatment for Educational Institutions under HT category to be considered in line with the treatment provided in the LT category in the last tariff order to provide benefit to the larger section of public (students). This would result in lower tariffs than earlier charged commercial tariff.
- It is noted that the certificate from the Department of Tourism by Hotel to claim concessional tariff is delayed sometimes within the year resulting in confusion on the applicability of tariff. It is requested to the Hon'ble commission for determination of category of tariff for Hotel Industry based on the certificate issued for two consecutive years to avoid the confusion related to applicability of tariff under commercial category or under concessional tariff. Also, the timeline for submission of Certificate from Department of tourism to avail concessional tariff shall be within four months of issues of Tariff Order. The concessional tariff will be applicable from the month of receipt of the certificate or the following month.
- It is submitted that a particular Consumer of Goa is getting power supplied from MSEDCL due to lack of distribution infrastructure of EDG in that area. In the said case, MSEDCL issues the bill to department and the department issues the same bill to the consumer in addition to other services such as attending any fuse off calls to the consumer, etc. Therefore, an approval is sought from JERC for recovery of Service charges against the billing, collection, etc provided by the Department which will be equivalent to per unit charge of Employee cost and Administrative & General Cost as proposed below in addition to the power purchase cost:

Table 10-2: Proposal for recovery of service charges to consumers availing power from MSEDCL

Particulars	Units	Amount
Employee Cost for FY 2017-18	Rs. Crs	254.24
A&G cost for FY 2017-18	Rs. Crs	10.12
Total O&M Cost excluding R&M	Rs. Crs	264.36
Approved Sales for FY 2017-18	Mus	3,494.72
Service Charge to be applicable	Rs./kWh	0.76

* - R&M expenses not claimed as no distribution infrastructure of EDG exist

10.5 General Conditions and Definitions

- 1) These tariffs are proposed to be made applicable from 1st April 2017 and shall be subject to revision by the Regulatory Commission from time to time.
- 2) Tariffs are subject to revision and/or surcharge that may be levied by EDG from time to time as per the directives of the Commission.
- 3) The tariffs are exclusive of electricity duty and taxes levied by the Government or other competent authority from time to time which are payable by the consumers in addition to the charges levied as per the tariffs.
- 4) Unless otherwise agreed to, these tariffs for power supply are applicable for supply at one point only.
- 5) Unless specifically stated to the contrary the figures of energy charges relate to rupee per unit (kWh) charge for energy consumed for a month.
- 6) If energy supplied for a specific purpose under a particular tariff is used for a different purpose, not contemplated in the contract for supply and / or for which higher tariff is applicable, it will be deemed as unauthorized use of electricity and shall be dealt with for assessment under the provisions of section 126 of the Electricity Act, 2003 and Supply Code Regulation 2010 notified by JERC.
- 7) If connected load of a domestic category is found to be at variance from the sanctioned/contracted load as a result of replacement of appliances such as lamps, fans, fuses, switches, low voltage domestic appliances, fittings, it shall not fall under Section 126 and Section 135 of the EA 2003.
- 8) Fixed charges, wherever applicable, will be charged on pro-rata basis from the date of release of connection. Fixed charges, wherever applicable, will be double as and when bi-monthly billing is carried out and will be proportionately calculated as per

the no. of days of billing, Similarly slabs of energy consumption will also be considered accordingly in case of bi-monthly or periodic billing.

- 9) The consumption for factory lighting/pump house lighting will be billed as per respective main tariff category. A separate energy meter for recording energy consumed towards factory lighting for new installation need not be provided. For the existing installations, till the factory lighting meter's mains are shifted to main meter, the total energy consumption shall be arrived by adding the energy consumption of main energy meter and factory lighting meter.
- 10) LT Connection is applicable with Sanctioned Load of less than 80 KVA or 70 KW or 95 HP as the case may be and HT Connection is applicable with Contract Demand of 80kVA and above.
- 11) Supply of power in all cases shall be subject to the execution of Agreement between Electricity Department, Goa and consumers and as per JERC (Electricity Supply Code) Regulation 2010. The Other Conditions, definitions etc shall be applicable as per the Electricity Act 2003 and various JERC Regulations, such as Standards of performance, Supply Code, Conditions of Supply, Distribution Code etc., issued from time to time

12) Billing Demand and Billing of extra Demand :

The billing shall be on the maximum demand recorded during the month or 75% of contracted demand whichever is higher. If in any month, the recorded maximum demand of the consumer exceeds its contracted demand, that portion of the demand in excess of the contracted demand shall be billed at double the normal rate. Similarly, energy consumption corresponding to excess demand shall also be billed at double the normal energy rate.

The definition of the maximum demand would be in accordance with the provisions of the JERC (Electricity Supply Code) Regulations, 2010. If such over drawl is more than 20% of the contracted demand then the connection shall be disconnected immediately.

Explanation:

Assuming the contract demand as 100 kVA, maximum demand at 120 kVA and total energy consumption as 12000 units, then the consumption corresponding to the contract demand will be 10,000 units ($12000 \times 100 / 120$) and consumption corresponding to the excess demand will be 2000 units. This excess demand of 20 kVA and excess consumption of 2000 units will be billed at twice the respective normal rate.

E.g. in case of HTI/Industrial category, excess demand and consumption will be billed at the rate of Rs 500 per kVA per month and Rs 8.60/kWh respectively. Connections drawing more than 120 kVA shall be disconnected immediately.

10.6 Miscellaneous and General Charges

10.6.1 Fuel & Power Purchase Cost Adjustment (FPPCA) Formula

The FPPCA charge will be determined based on the formula approved by Hon'ble Commission vide order dated 27th June 2012 and relevant directions, as may be given by the Hon'ble Commission from time to time and will be applicable to all consumer categories except for Below Poverty Line (BPL) and Agriculture consumers for their consumption.

The details for each month/ quarter shall be available on Electricity Department, Government of Goa website at <http://www.goaelectricity.gov.in/>

The values of the 'K' factor applicable for the different consumer categories for use in the FPPCA formula shall be as specified in the respective Tariff Order. FPPCA charges so worked out shall be recovered/ refunded in accordance with the terms and conditions specified in the FPPCA formula.

10.6.2 Electricity Duty

The Electricity Duty will be charged as per Government guidelines from time to time in addition to charges as per the Commission approved tariffs mentioned hereunder. However, the rate and the reference number of the Government Resolution/ Order vide which the Electricity Duty is made effective, shall be stated in the bill. A copy of the said Resolution/Order shall be made available on Electricity Department, Government of Goa website at <http://www.goaelectricity.gov.in/>

10.6.3 Power Factor Calculation

(Applicable for all HT categories and LT categories wherever approved by Commission)

Wherever, the average power factor measurement is not possible through the installed meter, the following method for calculating the average power factor during the billing period shall be adopted-

$$\text{Average Power Factor} = \frac{\text{Total (kWh)}}{\text{Total (kVAh)}}$$

$$\text{Wherein the kVAh is} = \sqrt{\sum (\text{kWh})^2 + \sum (\text{RkVAh})^2}$$

(i.e., Square Root of the summation of the squares of kWh and RkVAh)

10.6.4 Power Factor Penalty

(Applicable for all HTcategories and LT categories wherever approved by Commission)

The monthly average power factor of the supply shall be maintained by the consumer not less than 0.90 (lagging). If the monthly average power factor of a consumer falls below 0.9 (lagging), such consumer shall pay a surcharge in addition to his normal tariff as 1 % of monthly bill including energy charges, FPPCA, and fixed/ Demand Charges but excluding Taxes and duties for each fall of 0.01 in power factor upto 0.7 (lagging).

EDG also proposes that if monthly average power factor falls below 0.7 (lagging), then for each fall in 0.01 in power factor, such consumer shall pay a surcharge in addition to his normal tariff as 2 % of monthly bill including energy charges, FPPCA, and fixed/ Demand Charges but excluding Taxes and duties.

If the average power factor falls below 0.70 (lagging) consecutively for 3 months, the licensee reserves the right to disconnect the consumer's service connection without prejudice for the levy of the surcharge.

The power factor shall be rounded off to two decimal places. For example, 0.886 shall be treated as 0.89 and 0.884 shall be treated as 0.88.

10.6.5 Power Factor Incentive

(Applicable for all HT categories and LT categories wherever approved by Commission)

In case the monthly average power factor of the consumer is more than 0.95 (lagging), a power factor incentive shall be given to the consumer as 1 % of monthly bill including energy charges, FPPCA, and fixed/ Demand Charges but excluding Taxes and duties for each increase of 0.01 in power factor above 0.95(lagging)

The power factor shall be rounded off to two decimal places. For example, 0.944 shall be treated as 0.94 and 0.946 shall be treated as 0.95.

10.6.6 Payment Rebates:

Advance Payment Rebate: If payment is made in advance well before commencement of consumption period for which bill is prepared, a rebate @ 1% per month shall be given on the amount (excluding security deposit, taxes and duties) which remains with the licensee at the end of the month. Such rebate, after adjusting any amount payable to the licensee, shall be credited to the account of the consumer.

If payment is made in advance along with prior declaration of premises to be closed for a certain period of time, a rebate of 1% per month shall be given on the amount (excluding security deposit, taxes and duties) which remains with the licensee at the end of the month. Such rebate, after adjusting any amount payable to the licensee, shall be credited to the account of the consumer.

EDG Proposal:

EDG submits that for advance payment rebate, two conditions is required to be satisfied i.e. Payment before commencement of consumption period and with the licensee for 1 month period. However it is observed that in certain cases, the advance payment is made alongwith the due-date of the last bill and the next payment is made within less than 30 days as the payment is made before due-date for second bill. In the said case, both the conditions are not satisfied and still consumers seeks Advance Payment Rebate. Therefore EDG propose that in the said case, either the Advance Payment Rebate may not be applicable to the said consumers or 1% rebate to be provided on a pro-rata basis for the number of days for which the money remained with licensee.

Prompt Payment Rebate: If payment is made at least 7 days in advance of the due date of payment a rebate for prompt payment @ 0.25 % of the bill amount (excluding taxes and duties) shall be given. Those consumers having arrears shall not be entitled for such rebate and the amount paid will first be used to set off past liabilities.

EDG Proposal:

EDG propose that in case the payment is made by cheque, the prompt payment discount will be applicable only if the payment by cheque is made 2 days prior to date of availing the prompt payment discount i.e. before 5 days of the due date of payment a rebate.

10.6.7 Delayed Payment Charges (DPC):

In case the electricity bills are not paid within the due date mentioned on the bill, delayed payment charges of two percent (2%) (Computed on daily basis on outstanding bill from the due date till date of payment) shall be levied on the bill amount. However, if a consumer makes part payment of a bill (in exceptional circumstances, with prior approval of the Chief Electrical Engineer), within the due date, then the delayed payment charges shall be applicable only on the amount which was not paid within the due date.

Such surcharge shall be rounded off to the nearest multiple of one rupee. Amount less than 50 paise shall be ignored and amount of 50 paise or more shall be rounded off to next rupee.

If the consumer fails to pay the energy bill presented to him by the due date the department shall have the right to disconnect the supply after giving 15 days notice as per provision of the Electricity Act 2003 and Supply Code Regulations 2010 of JERC as amended from time to time.

In case of non-realization of payment through Cheque, a penalty of 5% of the cheque amount in addition to the Delayed Payment Charges (DPC) will be levied on the consumers.

10.6.8 Time of Day tariff (ToD):

- i) Under the Time of Day (ToD) Tariff, electricity consumption and maximum demand in respect of HT/EHT consumers for different periods of the day, i.e. normal period, peak load period and off-peak load period, shall be recorded by installing a ToD meter.
- ii) The maximum demand and consumption recorded in different periods shall be billed at the following rates on the tariff applicable to the consumer.

Time of use	Demand Charges	Energy Charges
Normal period (7:00 a.m. to 6:00 p.m)	Normal Rate	Normal rate of energy charges
Evening peak load period (6:00 p.m to 11.00 p.m)	Normal Rate	120% of normal rate of energy charges
Off-peak load period (11:00 p.m to 7:00 a.m)	Normal Rate	90% of normal rate of energy charges

- iii) Applicability and Terms and Conditions of TOD tariff:
- a) TOD tariff is mandatory for HT/EHT consumers and shall be optional for LT industrial and commercial consumers.
 - b) The facility of aforesaid TOD tariff shall not be available to HT/EHT consumers having captive power plants and/or availing supply from sources other than EDG through wheeling of power.
 - c) The HT/EHT industrial consumers who have installed standby generating plants shall also be eligible for the aforesaid TOD tariff
 - d) In the event of applicability of TOD tariff to a consumer, all other terms and conditions of the applicable tariff shall continue to apply.

10.7 Schedule of Miscellaneous Charges

10.7.1 There is no change proposed in Schedule of General & Miscellaneous charges for FY 2017-18 and are proposed to be retained at existing level.

Table 10-3: Existing and Proposed Schedule of Miscellaneous Charges

Description	Existing / Proposed Charge
1) Monthly Meter Rental Charges (as per provisions of Regulation 7.3 (1) of JERC (Electricity Supply Code) Regulations 2010)	
Single Phase LT meter	Rs.10/month
Three Phase LT meter	Rs.20/month
Three Phase LT meter with CTs	Rs.50/month
LT Meter with MD Indicator	Rs.30/month
Tri-vector Meter	Rs.1000/month
Temporary Supply	Shall be twice as applicable in above meter types
Changing or moving a Meter board	Actual Cost + 15%
Note:	
(a) For all domestic and other LT loads less than 50 kW loads in Urban and Rural areas - Static single phase / three phase meters	
(b) For LT (contracted load \geq 50 KW) / HT / EHT consumer – Static, 3 Phase Tri-vector meters with MDI (MD Display)	
2) Reconnection Charges	
(as per provisions of Regulation 9.3 (c) of JERC (Electricity Supply Code) Regulations 2010)	
LT Services – At Cut outs	
· Single Phase	Rs.25/-
· Three Phase	Rs.50/-
LT Services – At Overhead Mains	
· Single Phase	Rs.30/-
· Three Phase	Rs.50/-

Description	Existing / Proposed Charge
LT Services – At Underground Mains	
· Single Phase	Rs.75/-
· Three Phase	Rs. 125/-
HT Services	Rs.200/-
Note:	
If the same consumer seeks reconnection within 12 months from the date of reconnection or disconnection, 50% will be added to above charges	
3) Re-Rating of Installations	
Lighting Installation	Rs.25/-
Motive Power Installation	Rs.50/-
4) Testing Fee for Various Metering Equipments	
(as per provisions of Regulation 7.4 of JERC (Electricity Supply Code) Regulations 2010	
Single phase LT	Rs.25/energy meter
Poly Phase LT without CT	Rs.50/energy meter
L.T. meter with CTs/Demand or Special Type Meters	Rs.150/energy meter
H.T & E.H.T. metering equipment	Rs 10000/- at site
Transformer Oil	Rs.200/- per sample
3 – ∅ Phase Tri-vector Meter Industrial LT Consumer	Rs.1000/- for laboratory testing
3 – ∅ Phase Tri-vector Meter 11 KV& 33kV HT Consumer	Rs.5000/- at site
Three Phase Tri-Vector Meter 110 KV EHT Consumers	RS.1000/-at site
Combined CTPT Unit for 11kV & 33kV Consumer	Rs 2500/-
110KV CT / PT Unit	Rs10000/-
Single Phase CT	Rs.150/ unit
Three Phase TT Block	Rs 500/unit
Distribution Transformer Testing (HT con.)	Rs.6000
Power Transformer Testing (EHT consumer)	Rs.20000
5) Service Connection Charges	
(as per provisions of Regulation 3.3 (3) of JERC (Electricity Supply Code) Regulations 2010	
Single Phase 1 φ	Rs.250
Three Phase 3 φ	Rs.500 to Rs.1200
HT (First 500 KVA)	Rs.10000
HT (Beyond 500 KVA)	Rs.20000
Extra Length for 1 φ (beyond 30 metres)	Rs.50 /meter
Extra Length for 1 φ for agricultural consumers (beyond 300 meters)	Rs.50 /meter
Extra Length for 3 φ (beyond 30 metres)	Rs.100 /meter
Extra Length for 3 φ for agricultural consumers (beyond 300 metres)	Rs.100 /meter
6) Testing Consumer's installation	
(as per provisions of Regulation 4.10 (6) of JERC (Electricity Supply Code) Regulations 2010	
For first test of the new installation on or off an extension to an existing installation if the installation is found to be defective.	NIL
For Subsequent test of the new installation or of an existing installation if the installation is found to be defective	

Description	Existing / Proposed Charge
• Single phase LT	Rs.100/-
• Three phase	Rs.200/-
• MS/BS loads upto 70kW	Rs.4000 + ST
• LS/BS/RT (loads Above 70kW)	Rs.8000 + ST
7) Changing the Meter or its position in the same premises at the request of the consumer when no additional material is required	
(as per provisions of Regulation 6.3 c) of JERC (Electricity Supply Code) Regulations 2010	
Single phase	Rs.100/-
3-phase without C.Ts	Rs.200/-
L.T. meter with C.T.s	Rs.500/-
H.T & E.H.T. metering equipment	Rs. 8000 + ST
8) Re-sealing charges irrespective of the number of seals involved against each item below and where seals found to have been broken by the consumer	
Meter cupboard / Meter Cubical / Box	Rs.50/-
Where cut-out is independently sealed	Rs.50/-
Meter cover or Meter Terminal cover	Rs.50/-
Meter cover of Meter Terminal cover (3 phase).	Rs.50/-
Maximum demand Indicator or C.T.s chamber	Rs.50/-
9) Service Charges	
General Supply	
• Single Phase	Rs.10/-
• Three phase below 70kW	Rs.20/-
• Three phase above 70kW	Rs.50/-
Industrial/bulk/ agriculture /Street Lightning Supply	
• Upto 70kW	Rs.25/-
• Above 70kW	Rs.50/-
10) Replacement of broken glass	
Replacement of broken glass of meter cupboard (When there is default on Consumer Side)	Rs.50/-
Replacement of broken Glass of single phase meter if the consumer has broken or tamper and with meter.	Rs.50/-
Replacement of broken Glass of three phase meter if the consumer has broken or tamper and with meter	Rs.50/-
11) Supply of duplicate copies of electricity bills	
Domestic Consumers	Rs.5 per bill or Rs.10 per statement
Non Domestic consumers	
LT Industrial upto 20kW & AP Consumer	
H.T Industrial & Bulk supply consumer	Rs.5 per bill or Rs.10 per statement

10.7.2 It is submitted that under the head “Service Connection Charges”, Rs. 20,000 is charged for the HT connection beyond 500 KVA. However, there is no clarity on release of any additional load later on. For example, if there is original load sanction of 1000 KVA for which Rs. 20000 is already charges, what will be the charges, if there is request of increase in load by 200 KVA. Therefore, EDG proposes, that for any incremental load above 1000 KVA, Rs. 2000 will be charged for every release of 100 KVA. The same is proposed as under:

Table 10-4: Proposal for Service Connection charges on incremental load

Description	Existing / Proposed Charge
5) Service Connection Charges - (as per provisions of Regulation 3.3 (3) of JERC (Electricity Supply Code) Regulations 2010	
HT (First 500 KVA)	Rs.10000
HT (Beyond 500 KVA)	Rs.20000
HT (Incremental Load for every 100 KVA)	Rs. 2000

10.7.3 EDG also submits that there are no charges specified for Re-rating charges like Change of Name, Increase/Decrease of load etc which also comes under the services which are provided to the consumers by EDG. Therefore, EDG proposes following charges for such re-rating services in line with MERC approved rates:

Table 10-5: Proposal for Re-rating charges

Description	Existing / Proposed Charge
5) Service Connection Charges - (as per provisions of Regulation 4.13 (2), 6.1, 6.8 (5) of JERC (Electricity Supply Code) Regulations 2010	
Change in Connected Load / Category / Name / address	
Single Phase	Rs. 50 per application
Three Phase	Rs. 100 per application
HT Supply	Rs. 1700 per application
EHT Supply	Rs. 3400 per application

10.7.4 In case of bonafide agricultural pumping loads, the department shall provide overhead service lines at a free of cost upto 300 meters from the nearest distribution point i.e. existing rural transformer sub-station or from a service line already laid for supply to any other consumer, provided the latter has sufficient current carrying capacity. Any length in excess of the specified length shall be payable at a fixed cost of Rs.25 / metre for single phase and Rs.50/ meter for Three phase as approved under Schedule of General and Miscellaneous Charges.

CHAPTER 11. TARIFF SCHEDULE

This section highlights the tariff schedule with certain proposal in rationalisation of Tariff without any change in existing tariff.

11.1 Tariff Schedule - LT Consumers

Low Tension Category-Applicable to Power Supply of Voltages at 230V and 440V Voltages when the Sanctioned Load is below 100 KVA/ 90 KW / 120 HP and power is supplied at single/ three phase

11.1.1 LT 1(A): Tariff LTD/Domestic

Existing Applicability Clause	Proposed Applicability Clause
<p>This schedule shall apply to private residential houses, government residential quarters, charitable institutions or educational institutions aided by State /Central Board, colleges aided by Goa University and religious institutions etc for consumption of energy using normal domestic appliances.</p> <p>The Professionals i.e. individuals engaged in those activities involving services based on professional skills, like Lawyers, Doctors{only those using OPD/consultancy},Professional Engineers, Chartered Accountants, etc. may utilize the domestic connection at their residence for carrying out their professional work in the nature of consultancy without attracting commercial tariff for the electricity consumed, provided the area used for professional activity does not exceed the area permitted to be used for such activity in residential area as per the prevailing laws/notifications issued by Town and Country Planning Department/other concerned departments of Government of Goa in this regard.</p>	No changes proposed

I. Tariff

Consumption Slab	Existing Tariff FY2016-17 and similar proposed for FY 2017-18	
	Fixed Charges	Energy Charges (Rs/kWh)
• 0 - 100 Units	Single Phase Rs.	1.30
• 101 - 200 Units	20/Connection/Month	1.90
• 201 - 300 Units	Three Phase Rs.	2.40
• 301 - 400 Units	4 5 /Connection/Month	3.10
• Above 400 Units		3.60

Note - The premises or flats which are closed or locked for continuous period of more than three months and having sanctioned / connected load more than 10 kW, the monthly minimum charges would be Rs.1000/-.

11.1.2 LT 1(B): Tariff LTLIG/Low Income Group

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to consumers of low Income Group who have a sanctioned load of up to 0.1 kW (primarily 2 points with 2 x 40 watts) and who consume upto 30 units per month only.	No change Proposed

I. Tariff:

Description	Existing Tariff FY2016-17 and similar proposed for FY 2017-18
	Connection/month
Consumption Up to 30 Units p.m.	30.00

Note: The applicability of the Low Income Group category will be assessed at the end of each month and in case the consumption exceeds above 30 units per month then entire such consumption would be billed at the rate of LTD-/Domestic for that particular month.

11.1.3 LT II: LTC/Commercial

Existing Applicability Clause	Proposed Applicability Clause
<p>This tariff is applicable to any activity not specifically covered in any other consumer categories, or although covered in another activity, the use is made for a commercial category. It would include electricity used in all non- residential, non-industrial premises and/or commercial premises for commercial consumption meant for operating various appliances. It would include the following categories but not limited to:</p> <ul style="list-style-type: none"> • Houses with rent back facilities • Government hospitals • Professionals not covered in domestic category. • Commercial Complexes and Business premises, including Shopping malls/show rooms, offices / shops; • Combined lighting and power services for Entertainment including film studios, cinemas and theatres, including multiplexes, Race Course, Meeting/Town Halls, Clubs, all types of Guest houses; 	No change Proposed

Existing Applicability Clause	Proposed Applicability Clause
<ul style="list-style-type: none"> • Offices including Government Offices, Commercial Establishments; • Marriage Halls (including halls attached to religious places), • Hotels / Restaurants (without boarding facilities), Ice-cream parlours, Bakery, Coffee Shops, private hospitals, private messes, Internet / Cyber Cafes, Mobile Towers, Microwave Towers, Satellite Antennas used for telecommunication activity, • Telephone Booths, Fax / Xerox Shops, X-ray installation, bars and cold drink houses, Tailoring Shops, Computer Training Schools, • Typing Institutes, Photo Laboratories, Photo Studio, Laundries, Beauty Parlour & Saloons, all types of nurseries, dry cleaners etc • Automobile and any other type of repair centres, Retail Gas Filling stations, Petrol Pumps & Service Stations including • Garages, Tyre Vulcanizing units, Battery Charging Units, Tyre vulcanizing centres etc; • Banks, Telephone Exchanges, TV Station, Micro Wave Stations, All India Radio (AIR) Stations, ATM Centres etc; • For common facilities, like Water Pumping / Street Lighting / Lifts / Fire Fighting Pumps / Premises (Security) Lighting, etc. In Commercial Complexes; • Sports Club, Health Club, Gymnasium, Swimming Pool; • Research & Development units situated outside Industrial premises; • Airports, Railways, Railway Station, Bus stand of KTC etc; 	

I. Tariff

Consumption Slab	Existing Tariff FY2016-17 and similar proposed for FY 2017-18	
	Fixed Charges	Energy Charges (Rs/kWh)
a) 0-100 units	0-20 kW-Rs.50/Conn/Month	3.25
a) 101 – 200 units	Above 20kW-90 kW	3.90
b) 201– 400 units	Rs. 50/Conn/month +	4.30
c) Above 400 units	additional Rs.55/kW for every kW increase above 20 kW	4.70

Note - Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff.

11.1.4 LT III: LTI/Industry

Existing Applicability Clause	Proposed Applicability Clause
<p>This tariff shall apply to consumers as industrial units engaged in industrial activities, manufacturing process etc. It would include the following categories but not limited to:</p> <ul style="list-style-type: none"> • Flour Mills, wet grinding, Dal Mills, Rice Mills, Poha Mills, Masala Mills, Saw Mills, Power looms including other allied activities like Warping, Doubling, Twisting, etc. • Ice Factory, Ice Cream Manufacturing units/ Plants, Dairy Testing Process, Milk Diaries, Milk Processing / Chilling Plants (Dairy) etc; • Engineering workshops, Engineering Goods Manufacturing units, Printing Press, Transformer repairing Workshops, Tyre retreading units, Motive Power Load etc; • Mining, Quarry & Stone Crushing units etc; • Garment Manufacturing units, • LPG/ CNG Bottling plants etc; • Sewage Water Treatment Plant/ Common Effluent Treatment Plant owned, operated and managed by Industrial Association and situated within industrial area. • Pumping of water for public water supply, Sewage Treatment Plants, activities related with public water Supply Schemes and Sewage Pumping Stations. • Use of electricity / power supply for activities/ facilities exclusively meant for employees of the industry within the premises of the Industry. • IT Industry, IT parks etc 	<p>No changes Proposed</p>

I. Tariff:

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./HP/month)	Energy Charges (Rs/kWh)
0 to 500 Units	30	3.10
Above 500 Units	30	3.50

Note - The above mentioned tariff is based on the supply being given through a single delivery and metering point and at a single voltage.

11.1.5 LT IV: LTP Mixed (Hotel Industries)

Existing Applicability Clause	Proposed Applicability Clause
<ul style="list-style-type: none"> This schedule shall apply to Hotels/ restaurants with lodging and boarding facilities. Hotel Industry consumers intending to avail the facility of this tariff should produce a certificate from the Tourism Department stating that the intending applicant is registered under Goa Registration of Tourist Trade Act, 1982 and in the Hotel business on a regular basis. Such tariff shall be made applicable only from the date of receipt of such certificate. In case of failure to produce the certificate, the same shall be considered under Commercial category. 	<ul style="list-style-type: none"> This schedule shall apply to Hotels/ restaurants with lodging and boarding facilities. Hotel Industry consumers intending to avail the facility of this tariff should produce a certificate from the Tourism Department stating that the intending applicant is registered under Goa Registration of Tourist Trade Act, 1982 and in the Hotel business on a regular basis <u>and such certificate will be valid for 2 years.</u> Such tariff shall be made applicable only from the date of receipt of such certificate, the validity of making the certificate will be from 4 months of the issuance of tariff order. In case of failure to produce the certificate, the same shall be considered under Commercial category. The Tariff under this category will be applicable only from prospective basis i.e. from the succeeding month of receipt of certificate and no retrospective effect to be provided.

I. Tariff:

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Total consumption	30	4.50

11.1.6 LT V: LTAG/Agriculture and other Allied Activities

a. LT-Agriculture Pump Sets (A)

Existing Applicability Clause	Proposed Applicability Clause
<ul style="list-style-type: none"> This schedule shall apply to establishments for Irrigation pumping, Dewatering and Lift Irrigation for cultivation of food crops such as cereals, pulses, vegetables and fruits etc and Cane crusher and/or fodder cutter for self-use for Agricultural purposes. 	No changes Proposed

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Total consumption	12	1.30

Note: This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Agriculture Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis. In case of failure to produce the certificate, the same shall be considered under Commercial category.

b. LT-Agriculture Allied Activities (B)

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to establishments for other allied activities related to Agriculture and shall include but not limited to: <ul style="list-style-type: none"> ▪ Poultry farms, Livestock farms, Combination of livestock farms with dairy, Piggery etc ▪ Horticulture, Green Houses, Plantations etc ▪ Fish farms including ornamental fish farms, prawn farms, other aqua farms etc ▪ Tissue culture, Mushroom activities, Aquaculture, Floriculture, Fisheries, Sericulture, Floricultural nurseries, hatcheries etc ▪ Any other agricultural activity not falling under HT-Agriculture (A) shall be covered under this category 	No changes Proposed

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Total consumption	20	1.60

Note:1. This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Agriculture Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis. In case of failure to produce the certificate, the same shall be considered under Commercial category.

2. Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged Commercial Tariff.

11.1.7 Public Lighting

Existing Applicability Clause	Proposed Applicability Clause
<p>This schedule shall apply to public lighting systems. It would include the following categories but not limited to:</p> <ul style="list-style-type: none"> ▪ Market Places Road, Pathways and Parking Lighting belonging to local authorities such as Municipality/ Panchayats/ Government; ▪ Lighting in Public Garden; ▪ Traffic Signals and Traffic Islands; ▪ State Transport Bus Shelters; ▪ Public Sanitary Conveniences; and ▪ Public Water Fountain and such other Public Places open for general public free of charge. ▪ Street lighting in the colony of a factory which is situated separately from the main factory. ▪ This shall also be applicable to public lighting of Government/ Semi-Government Establishments but shall not be applicable in case of private establishment. 	No changes Proposed

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Total consumption	40	3.90

11.1.8 Hoarding & Sign Boards

Existing Applicability Clause	Proposed Applicability Clause
<p>This schedule shall apply for lighting advertisements, hoardings and displays at departments stores, malls, multiplexes, theatres, clubs, hotels, bus shelters, Railway Stations etc and shall be separately metered and charged at the tariff applicable for “Hoardings / Sign Board” category. However use of electricity for displays for the purpose of indicating / displaying the name and other details of the shop, on commercial premises itself, shall be covered under the prevailing tariff for such shops or commercial premises.</p>	No changes Proposed

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Total consumption	60	9.90

11.1.9 LT VIII: LTTS/ Temporary Supply

Existing Applicability Clause	Proposed Applicability Clause
<p>a) LT Temporary Domestic: This schedule shall apply to usage of electricity for all religious purposes or public functions for non-commercial purposes. It shall also apply for construction of own house by an individual with single tenement</p> <p>LT Temporary Commercial: This schedule shall apply to usage of electricity for any of the activities not covered under LT Temporary Domestic. It would include but not limited to:</p> <ul style="list-style-type: none"> All other Constructions including renovation, of all type of structure/ infrastructure, including buildings, bridge, flyover, dam, power stations, road, aerodrome, tunnels laying of pipe line for all purpose 	No changes Proposed

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Temporary Domestic	Rs 60 per kW per month or part thereof subject to a minimum of Rs.300/- per connection per month or part thereof.	7.00
Temporary Commercial	Rs 100 per kW per month or part thereof subject to a minimum of Rs.500/- per connection per month or part thereof.	9.90

Note: -

- (i) The above temporary connection shall be released through a proper meter
- (ii) The above temporary tariffs are applicable for temporary supply for a period not exceeding three month which may be extended beyond that period only with the prior permission of the Chief Electrical Engineer, up to a maximum period of six months for general purpose and two years for construction activities.
- (iii) Security deposit shall be collected in advance for an assessed 3 months billing.

11.2 Tariff Schedule – HT Consumers

High Tension/ Extra High Tension Category - Applicable to Power Supply of Voltages at 11KV/ 33KV/ 110KV i.e High/Extra High Voltages when the Contracted Demand is above 100 KVA/ 90 KW / 120 HP and power is supplied at three phase

11.2.1 HT VI: HTD/Domestic

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to individual residential consumers of Bungalows, Villas, Cottages, etc. using normal domestic appliances and whose contract demand falls within the threshold limit of HT category..	This schedule shall apply to individual residential consumers of Bungalows, Villas, Cottages, etc. using normal domestic appliances, educational institutions aided by State / Central Board, colleges aided by Goa University and whose contract demand falls within the threshold limit of HT category.

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Total consumption	150	4.40

11.2.2 HT I: HTI / Industrial

Existing Applicability Clause	Proposed Applicability Clause
<p>This schedule shall apply to consumers taking electricity supply for Industrial purpose. It shall also include the following categories:</p> <ul style="list-style-type: none"> ▪ Bulk Supply of power at 11 KV, 33 kV /110 KV and above for industries, factories and other industrial purposes. ▪ Bulk supply of power at 11 KV and above for educational institutions owned or aided by Government, non-industrial establishment, ▪ Industrial units engaged in Ice Manufacturing Units; ▪ Hotels with lodging and boarding facilities etc 	<p>This schedule shall apply to consumers taking electricity supply for Industrial purpose. It shall also include the following categories:</p> <ul style="list-style-type: none"> ▪ Bulk Supply of power at 11 KV, 33 kV /110 KV and above for industries, factories and other industrial purposes. ▪ Bulk supply of power at 11 KV and above for educational institutions owned or aided by Government, non-industrial establishment, ▪ Industrial units engaged in Ice Manufacturing Units; ▪ Hotels with lodging and boarding facilities etc

Existing Applicability Clause	Proposed Applicability Clause
<ul style="list-style-type: none"> ▪ Use of electricity / power supply by an establishment such as IT Industries, IT Parks, IT Units ▪ Pumping of water, public water supply, public water treatment plant, activities related with Supply Schemes and Sewage Treatment Plants, Sewage Pumping Stations etc. 	<ul style="list-style-type: none"> ▪ Use of electricity / power supply by an establishment such as IT Industries, IT Parks, IT Units ▪ Pumping of water, public water supply, public water treatment plant, activities related with Supply Schemes and Sewage Treatment Plants, Sewage Pumping Stations etc.

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
11 / 33 kV	250	4.30
110 kV	250	4.20

11.2.3 HT IV - Ferro Metallurgical /Steel Rolling/Steel Melting/Power Intensive

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to supply of power having a Contract Demand from 100 KVA up to 1000 KVA at 11 KV and above 1000 KVA at 33 KV for Steel rolling industry and Metal Alloy, Steel Melting, Ferro Alloy, and Ferro metallurgical industries all types of Ferro alloy units where melting is involved using electric power.	No changes Proposed

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
All Units	250	4.30

11.2.4 HT III: HTC/ Commercial

Existing Applicability Clause	Proposed Applicability Clause
<p>This tariff is applicable to any HT supply activity not specifically covered in any other HT consumer categories or although covered in another activity, the use is made for a commercial category. It would include electricity used in all non-residential, non-industrial premises and/or commercial premises for commercial consumption meant for operating various appliances. It would include the following categories but not limited to:</p> <ul style="list-style-type: none"> • Houses with rent back facilities • Government hospitals • Professionals not covered in domestic category. • Commercial Complexes and Business premises, including Shopping malls/show rooms, offices / shops; • Combined lighting and power services for Entertainment including film studios, cinemas and theatres, including multiplexes, Race Course, Meeting/Town Halls, Clubs, all types of Guest houses; • Offices including Government Offices, Commercial Establishments; • Marriage Halls (including halls attached to religious places), • Hotels / Restaurants (without boarding facilities), Ice-cream parlours, Bakery, Coffee Shops, private hospitals, private messes, Internet / Cyber Cafes, Mobile Towers, Microwave Towers, Satellite Antennas used for telecommunication activity, • Telephone Booths, Fax / Xerox Shops, X-ray installation, bars and cold drink houses, Tailoring Shops, Computer Training Schools, • Typing Institutes, Photo Laboratories, Photo Studio, Laundries, Beauty Parlour & Saloons, all types of nurseries, dry cleaners etc • Automobile and any other type of repair centres, Retail Gas Filling stations, Petrol Pumps & Service Stations including • Garages, Tyre Vulcanizing units, Battery Charging Units, Tyre vulcanizing centres etc; • Banks, Telephone Exchanges, TV Station, Micro Wave Stations, All India Radio (AIR) Stations, ATM Centres etc; • For common facilities, like Water Pumping / Street Lighting / Lifts / Fire Fighting Pumps / Premises (Security) Lighting, etc. in • Commercial Complexes; Sports Club, Health Club, Gymnasium, Swimming Pool; • Research & Development units situated outside Industrial premises; • Airports, Railways, Railway Station, Bus stand of KTC etc; 	<p>No changes Proposed</p>

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
For All units	250	5.50

Note - Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture Allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged commercial tariff.

11.2.5 HT II: MES/Defence Establishments:

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to supply of power for defence installation establishments, having mixed load with predominantly lighting or non-industrial load of more than 50% of connected load.	No changes Proposed

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
For All units	175	5.00

11.2.6 HT V: HTAG / Agriculture and other Allied Activities

a. HT-Agriculture Pump Sets (A)

Existing Applicability Clause	Proposed Applicability Clause
<ul style="list-style-type: none"> This schedule shall apply to establishments for Irrigation pumping, Dewatering and Lift Irrigation for cultivation of food crops such as cereals, pulses, vegetables and fruits etc and Cane crusher and/or fodder cutter for self-use for Agricultural purposes. 	No changes Proposed

II. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Total consumption	35	1.40

Note:1. This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Agriculture Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis. In case of failure to produce the certificate, the same shall be considered under Commercial category.

b. HT-Agriculture Allied Activities (B)

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to establishments for other allied activities related to Agriculture and shall include but not limited to: <ul style="list-style-type: none"> ▪ Poultry farms, Livestock farms, Combination of livestock farms with dairy, Piggery etc ▪ Horticulture, Green Houses, Plantations etc ▪ Fish farms including ornamental fish farms, prawn farms, other aqua farms etc ▪ Tissue culture, Mushroom activities, Aquaculture, Floriculture, Fisheries, Sericulture, Floricultural nurseries, hatcheries etc ▪ Any other agricultural activity not falling under HT-Agriculture (A) shall be covered under this category 	No changes Proposed

II. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Total consumption	50	1.80

Note: 1. This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Agriculture Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis. In case of failure to produce the certificate, the same shall be considered under Commercial category.

2. Cold Storages which are solely attached to Agriculture and its allied activities shall be charged tariff of Agriculture allied activities. All other cold storages which are partly or not attached with Agriculture and Allied activities shall be charged Commercial Tariff.

11.2.7 HT VII: HTTS/ Temporary Supply

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to usage of electricity for all temporary purposes.	No Proposed Change

I. Tariff

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Total consumption	Rs. 120 per kVA per day or part thereof.	9.90

Note: -

- (i) The above temporary connection shall be released through a proper meter
- (ii) The above temporary tariffs are applicable for temporary supply at high voltage for a period not exceeding three months which may be extended with prior permission of the Chief Electrical Engineer, up to a maximum period of six months for general purpose and two years for construction activities.
- (iii) Security deposit shall be collected in advance for an assessed 3 months billing.

11.2.8 HT VIII: HT SPS Single Point Supply

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to a group of consumers who desire to take a HT connection at single point for consumption of energy within a Residential Complex – Group Housing Societies, Residential Housing Colonies, Cooperative Group Housing Societies, Township Area; Commercial Complexes, including Malls; Industrial Complexes, including IT Park, Bio-Parks or other entities classified as industries by Government of Goa	No changes Proposed

Note: In case of a dispute on whether the complex can be classified as an industrial complex, a certificate from Industries Department, Government of Goa will be required.

The following shall be the different combinations for SPS in a defined area:

- (i) An all LT consumer mix area
- (ii) All HT consumer mix area
- (iii) HT+LT consumer mix area

I. Tariff

The SPS applicant shall pay to EDG the tariff as mentioned below, corresponding to the demand¹ and the input energy at the HT end of such supply:

Existing Tariff FY2016-17 and similar proposed for FY 2017-18		
Existing Slabs	Fixed Charges (Rs./KW/month)	Energy Charges (Rs/kWh)
Residential Complexes (RC)	100	3.10
Commercial Complexes (CC)	200	4.30
Industrial Complexes (IC)	200	3.90

¹ Billing Demand would be as per pt 12) of 'General Conditions and Definitions' in the Chapter 10.5 of the Petition

Note:

- a) The General Conditions, Miscellaneous & General Charges would also be applicable for all SPS categories.
- b) Based on technical and administrative feasibility, the EDG may consider providing SPS power supply at HV/ EHV level to a complex at a mutually agreed injection point.
- c) The SPS arrangement would be applicable for the application received from a Residential complex² / Association of Persons (AOP) / Developer of the complex or any other such similar person.
- d) The SPS arrangement would be considered by EDG only if the minimum sanctioned cumulative contracted demand of the complex (group of consumers) is 1.15 MVA/ 1 MW.
- e) The complete cost of erection and O&M for the sub-transmission and distribution infrastructure within such complex would need to be borne by the said SPS applicant.
- f) The SPS applicant would be required to develop and maintain an efficient, co-ordinated and quality sub-transmission and distribution system in its area of electricity supply. Further, the applicant would be responsible to comply with Standards of Performance and Supply Code Regulation as laid down under JERC Regulations and guidelines of Goa Electricity Department, if any. The network within the complex will need to be certified by the Chief Electrical Inspector.
- g) For Residential Complexes, SPS application shall be entertained for group of LT consumers only. The loads of common amenities for such group may include pumps for pumping water supply, lifts and lighting of common area. However, the consumption of energy for common services shall be separately metered with meters installed by the consumer and tested and sealed by licensee. The consumption of such energy over and above 10% of the total consumption of energy shall be billed at LT Commercial Tariff. The user shall inform the details of every non-domestic activity, such as commercial complex, industrial activity, and recreation club, along with the connected load to the licensee at the time of seeking connection or at the time of enhancement in contract demand and shall seek a separate connection for the same in case the common load is more than 10%.
- h) Individual Domestic HT consumers in a residential complex that opts for SPS shall need to apply separately under HT Domestic category.
- i) The SPS applicant shall not charge tariff to the downstream consumers higher than stipulated above.
- j) The applicant shall be obliged to pay the total tariff (total billed amount) due to EDG, as measured at HT end of SPS. However, to cover energy transformation losses and other O&M expenses, such applicant would be eligible to get rebates from EDG on full bill payment, within the due time:
 - i. 5% on the overall billed amount in all cases of LT & HT consumers.
 - ii. Any other loss would be to account of the applicant.
- k) For CC and IC applicant, any LT / HT Consumer in the area should have minimum 80% pre-dominant load of their appropriate category i.e. mix load is allowed only upto 20%. For e.g. If a HT/ LT Industry Consumer has Factory, Residential Colony for its workers and also some Commercial facilities for his staff and the total of Residential & Commercial load is say around 30%, then separate Individual SPD connection may be taken for each such group as per activity.
- l) The implementation of SPS arrangement should be in accordance with the Electricity Act, 2003 and APTEL judgements in this regard.

² Once the society is formed, the developer has to change the applicant's name in favour of the society

CHAPTER 12. SEGREGATION OF WHEELING AND SUPPLY BUSINESS

12.1 Allocation Policy

12.1.1 EDG submits the bifurcation of all expenses between the functions of wheeling business (wire business) and retail supply business based on the allocation matrix approved by the Hon'ble Commission in the Tariff Order dated 18th April, 2016. The summary of the allocation statement and the segregation of ARR into wheeling and retail supply business is given in the table below:

Table 12-1: Allocation Statement Wheeling and Retail Supply

Cost Elements	Allocation (%)		FY 2017-18 (Rs. Crs)		
	Wheeling Business	Retail Supply Business	Wheeling Business	Retail Supply Business	Total
Power Purchase Cost	0%	100%	0.00	1330.98	1330.98
Provision for RPO Compliance	0%	100%	0.00	9.38	9.38
Employee Expenses	70%	30%	177.97	76.27	254.24
Administrative and General Expenses	90%	10%	9.11	1.01	10.12
Repairs and Maintenance Expenses	50%	50%	15.29	15.29	30.57
Depreciation	90%	10%	57.74	6.42	64.16
Interest on Loan	90%	10%	66.64	7.40	74.04
Interest on Working Capital	22%	78%	2.18	7.72	9.90
Return on Equity	90%	10%	52.50	5.83	58.33
Provision for DSM Expenses	0%	100%	0.00	3.41	3.41
Interest on Security Deposit	0%	100%	0.00	6.93	6.93
Total Revenue Requirement			381.42	1470.64	1852.06
Non-Tariff Income	0%	100%	0.00	6.74	6.74
Net Revenue Requirement			381.42	1463.90	1845.32

12.1.2 The Hon'ble Commission is requested to approve the segregation of ARR into wheeling & retail supply business for the control period as per above table

CHAPTER 13. OPEN ACCESS CHARGES FOR FY 2017-18

13.1 Approach for computation of open access charges

13.1.1 EDG submits that as per Regulation 36 of MYT Regulations, 2014 category wise cost of supply needs to be computed for facilitating determination of tariff and for gradual reduction of cross subsidy. Cost of supply study also facilitates determination of cross subsidy surcharge. However the cost of supply methodology suggested by APTEL is based on voltage wise segregation.

13.1.2 In absence of relevant data for computation of open access charges, EDG requests Hon'ble Commission to consider the same approach as approved in Tariff Order FY 2016-17.

13.1.3 Accordingly, EDG has computed open access charges considering the following wheeling losses for HT & EHT and allocation % for wheeling cost between HT & LT as approved in Tariff Order FY 2016-17.

- Wheeling Loss at HT & EHT Level - 3.636% (balance losses attributable to LTLevel)

13.2 Computation of Wheeling Charge and losses

13.2.1 Based on above mentioned and the projections for Sales and Wheeling ARR for FY 2017-18, the wheeling charges for HT/EHT & LT are determined.

13.2.2 The input energy at each level has been arrived to determine the network usage at HT/EHT and LT level. Based on the ratio of network usage at HT/EHT and LT level, the wheeling charge has been determined as shown below.

Table 13-1: Determination of input energy for network usage percentage

S. No.	Particulars	UoM	Amount
1	Sales at 11 kV and above (HT/EHT Level)	MU	2027.00
2	Losses in % for HT/EHT Network	%	3.64%
3	Input required for sales at 11 kV and above	MU	2103.48
4	Projected total input	MU	3838.32
5	Projection of HT/EHT network usage	%	54.80%
6	Balance proportion of LT network usage	%	45.20%

Table 13-2: Wheeling Charge for FY 2017-18

S. No.	Particulars	UoM	Formulae	Amount
1	Wheeling Cost	Rs Crs	A	381.42
2	Wheeling Cost for HT/EHT network	Rs Crs	B=A*54.80%	209.02
3	Input required for sales at 11 kV and above	MUs	C	2103.48
4	Wheeling charges for HT/EHT network usage	Rs./kWh	D=B/C*10	0.99
5	Wheeling cost for LT network	Rs Crs	E=A*45.20%	172.39
6	Input required for sales at LT level MU	MUs	F	1671.75
7	Wheeling charges for LT network usage	Rs./kWh	G=E/F*10	1.03

13.2.3 Therefore, EDG requests the Hon’ble Commission to approve wheeling charge for HT/EHT category as Rs 0.99/kWh and for LT category as Rs 1.03/kWh for FY 2017-18.

13.3 Computation of Cross Subsidy Surcharge

13.3.1 The National Electricity Policy as stipulated by the Central Government provides that –Under sub – section (2) of Section 42 of the Act, a surcharge is to be levied by the respective State Commissions on consumers switching to alternate supplies under open access. This is to compensate the host distribution licensee serving such consumers who are permitted Open Access under Section 42 (2), for loss of cross subsidy element built into the tariff of such consumers. An additional surcharge may also be levied under sub – section (4) of section 42 of the said Act for meeting the fixed cost of the distribution licensee arising out of obligation to supply in cases where consumers are allowed open access.

13.3.2 The Government of India has notified the National Tariff Policy, 2016 on 28th January 2016. The Cross subsidy surcharge is based on the following formula given in the Tariff Policy, 2016 which is as follows:

$$S=T-[C/(1-L/100)+D+R]$$

Where,

S is the surcharge

T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation;

C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligation;

D is the aggregate of transmission, distribution and wheeling charge applicable to the relevant voltage level

L is the aggregate of transmission, distribution and commercial losses, expressed as a percentage applicable to the relevant voltage level

R is the per unit cost of carrying regulatory assets.

13.3.3 The projected wheeling charges “D” as calculated above at the respective voltage level are used for calculation of Cross Subsidy Surcharge.

13.3.4 The Computation of cross subsidy surcharge for EHT/HT consumers getting supply above 11 KV voltage level is given below.

Table 13-3: Calculation of "T" Approved for FY 2017-18

Particulars	Sales (MUs)	Revenue from approved tariff (Rs. Crs)	Average Tariff(Rs./kWh)
T	2027.00	1103.52	5.44

Table 13-4: Calculation of "C" Approved for FY 2017-18

Particulars	Quantum	Rs. Crs	Rs./kWh
Power purchase at generator end excluding open access	3998.32	1330.98	3.33
Less: Interstate Losses	160.00		
Total power purchase for the Distribution licensee - C	3838.32	1330.98	3.47

Table 13-5: Cross-Subsidy Surcharge for FY 2017-18

Cross Subsidy Surcharge	UoM	HT and EHT Industry
T	Rs./kwh	5.44
C	Rs./kwh	3.47
D	Rs./kwh	0.99
L	%	3.64%
R	Rs./kwh	0
Surcharge	Rs./kwh	0.98

Therefore, EDG requests the Hon’ble Commission to approve the cross subsidy surcharge of Rs. 0.98/kWh for HT and EHT consumers in FY 2017-18.

CHAPTER 14. COMPLIANCE OF DIRECTIONS

The Hon'ble Commission in its Tariff Order for FY 2016-17 had laid down certain directives to be complied by EDG. The directives as provided by the Hon'ble Commission and the status of the said directives are replied as below:

14.1 Status of Compliance of Directives issued in tariff order dated 18th April 2016

Sr. No.	Directives	Hon'ble Commission Observation made in the Tariff Order dated 18 th April 2016	Compliance by the Electricity Department Goa
1	Annual Statement of Accounts	<p>The Commission has noted with serious concern that the Petitioner is yet to submit the audited accounts for the review of the Commission.</p> <p>The Commission directs the Petitioner to expedite the preparation of the accounts on Commercial Principles audit thereof for FY 2011-12, FY 2012-13, FY 2013-14, FY 2014-15 and FY 2015-16.</p> <p>The Petitioner is also directed to file the true-up Petitions for FY 2011-12 and FY 2012-13 by 30th June 2016.</p> <p>Also the True-up Petitions for FY2013-14 and FY 2014-15 should be filed along with the next APR Petition failing which, the Commission shall be constrained to take appropriate action against the Petitioner</p>	<p>It is to be submitted to the Hon'ble Commission that the status of Audited reports for the previous years is as follows:</p> <p><u>FY 2011-12</u>: the Audit Certificate from the Comptroller & Auditor General of India Porvorim is received on 20/07/2016 and the same is enclosed for your reference.</p> <p><u>FY 2012-13</u>: Audit is completed and certificate from CAG awaited</p> <p><u>FY 2013-14</u> and <u>2014-15</u>: Data collection from divisions is in the process and once the FAR for FY <u>2013-14</u> and <u>2014-15</u> is ready the same will be incorporated. It is estimated that Audit of FY 2013-14 and FY 2014-15 would be completed by March 2017.</p>
2	Preparation of Fixed Asset Register	<p>The Commission has noted with serious concern that the Petitioner is yet to submit the Fixed Asset and Depreciation Register.</p> <p>The Commission directs the Petitioner to expedite the preparation of the Fixed Asset and Depreciation Register and audit thereof for FY 2011 -12 , FY 2012 -13 , FY 2013 -14 , FY 2014-15 and FY 2015 -16 and submit along with the True-up Petitions of respective years failing which ,the Commission shall be constrained to take appropriate action against the Petitioner</p>	<p>It is to be submitted to the Hon'ble Commission that the status of FAR for the previous years is as follows:</p> <p>FY 2013-14 and 2014-15: Data collection is in the process. The same will be informed to the Commission, once they are available.</p> <p>It is also submitted to the Hon'ble Commission that, GIS mapping of the assets will be completed as the part of RAPDRP Part A by March 31st, 2017.</p>
3	Energy Audit Report	<p>The Commission has noted with serious concern that the Petitioner is yet to submit the Energy Audit Reports. The Commission directs the Petitioner to prepare the Energy Audit Report before 30th October 2016 and</p>	<p>Station metering, Feeder metering and DTC Metering is in progress, only then the Energy Auditing will be initiated.</p>

Sr. No.	Directives	Hon'ble Commission Observation made in the Tariff Order dated 18 th April 2016	Compliance by the Electricity Department Goa
		file it along with next Petition, failing which the Commission will be constrained to take appropriate action against the Petitioner.	
4	Manpower Study	<p>The Commission has noted with serious concern that the Petitioner is yet to submit a systematic manpower study report with a specific focus on manpower rationalization. The Commission is of the view that the issue of rationalization of manpower cannot be postponed indefinitely as it is not in the interest of consumers.</p> <p>The Commission directs the Petitioner to prepare Systematic Manpower Study Report before 30th October 2016 and file it along with the next Petition, failing which the Commission will be constrained to take appropriate action against the Petitioner.</p>	It is submitted to the Hon'ble Commission that, the study is under process and the report will be submitted to the Commission once the study is completed.
5	Consumer Security Deposit	<p>The Commission has noted with serious concern that the Petitioner is yet to ensure compliance of this directive.</p> <p>The Commission directs the Petitioner to pay the interest on consumer security deposit in the bills of April/May as per the provisions of JERC supply code regulations 2009 and file the status report of the same along with the next Petition failing which, the Commission will be constrained to take appropriate action against the Petitioner.</p>	In line with the submission made in para 889.2, the Budget Provision for payment of interest to the consumers on Security Deposit for the FY: 2011-12 to 2013-14 has already been made and the process of crediting the same in the consumer's bills is in progress. Till date amount of Rs.78,10,719/- is credited in the consumers bills, and the remaining payment of interest to the consumer on Security Deposit is in process. The detailed report duly compiled shall be submitted soon after receipt from the Divisions. As regard, the interest for the FY2014-15 and FY 2015-16, the same is in process and is awaited for the creation of the budget head in the accounts for which the proposal have been approved in-principle by the Government.
6	Creation of separate bank account	The Commission has noted the submission of the Petitioner and directs the Petitioner to actively pursue this matter with the Government of Goa and submit the status report of same by 30 th October 2016.	It is submitted to the Hon'ble Commission that, EDG being Government Department, the present mechanism of accounting of revenue receipts is being remitted in the Government Account under appropriate Head of Account of the Department and hence no separate Bank Account can be

Petition for True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination for FY 2017-18

Sr. No.	Directives	Hon'ble Commission Observation made in the Tariff Order dated 18 th April 2016	Compliance by the Electricity Department Goa
			created.
7	Unbundling of Electricity Department	The Commission has noted the submission of the Petitioner. However, mere creation of separate posts will not serve the purpose of compliance and is not in line with the spirit of Electricity Act 2003 also. The Commission directs the Petitioner to actively pursue the unbundling of the Department with the Government of Goa and submit status report by 30 th October 2016.	The Unbundling proposal is under process of approval from the Government and is yet pending.
8	Sub Divisions as Strategic Business Units	The Commission has noted the submission of the Petitioner. The Commission directs the Petitioner to introduce the system of Cost-Revenue Centre Oriented Sub Divisions at least in two Divisions in its operational area along with targets for FY 2016-17 under intimation to this Commission within 1 month of issuance of this Order. The Petitioner will also submit the quarterly progress report on the same.	The Divisions informed their inability towards introducing system of Cost-Revenue Centre Oriented Sub Divisions in operational area of the Divisions along with targets for FY 2016-17 as directed by JERC, since: 1) The balance 20% of DTC metering is on verge of completion. There is a shortage of meters for replacement of non-working meters and existing Mechanical meters. 2) The work of Consumer Indexing transformer wise and feeder wise is in progress by M/s. REC TPDL.
9	Installation of Pre Paid Meters	The Commission has noted the submission of the Petitioner. In addition to the earlier directive, the Commission also directs the Petitioner to submit action plan for conversion of all connections whose premises remain locked for 3 or more months in a year to prepaid meters. The Petitioner should submit action plan in this context by 30 th June 2016.	As the cost of pre-paid meters being on a much higher side, the decision regarding installation of prepaid meter yet to be taken.
10	Capital Investment Plan and Monitoring	The Commission has noted the submission of Petitioner and directs the Petitioner to continue compliance of this directive for future capital expenditure also.	The Electricity Department has already started the practice of appointment of Project Management Consultant (PMC) for overseeing the Projects costing more than Rs. 5 crores. As regards Projects under IPDS/DDUGJY, RECPDCL had been appointed as PMC right from preparation of DPR. For major EHV schemes, RECTPCL has been appointed as PMC. The PMC concept will be continued henceforth for the Projects

Sr. No.	Directives	Hon'ble Commission Observation made in the Tariff Order dated 18 th April 2016	Compliance by the Electricity Department Goa
			<p>costing more than Rs. 5 crores.</p> <p>As regards the engagement of Third Party Quality Auditors for all Projects costing more than Rs. 50 lakhs, the same has also been started by the Department by appointing M/s WAPCOS as the agency, for a period of 2 years with effect from October 2015.</p> <p>As regards setting up of Project Monitoring Cell to monitor the progress on real time basis, where the PMC is not appointed, the same has been monitored at the level of the Executive Engineer, who is overall in charge of the Project. The Assistant Engineer/ Junior Engineer of concerned Sub-Division handle the Project directly.</p>
11	Arrears of Govt. Departments	The Petitioner is directed to submit the details of book adjustment along with true-up petitions of respective years.	Since EDG is the Government department which also undertakes various other works such as PWD, WRD, streetlight and other Government department, the overall accounts are merged and therefore, the book adjustment here means that the amount from the other respective government department is credited to EDG by debit of that account code of the other department, however the budget is allocated accordingly to the concern department and therefore there this arrears are always recovered by such journal entry.
12	Create a Central Contracts/tender cell	The Commission has noted the submission of the Petitioner. The status of action taken may be reported by 30 th September, 2016.	The Central Contracts / Tender Cell has been implemented in EDG in line with the directives of the Hon'ble Commission.
13	Power Purchase Strategy	The Commission has noted the submission of the Petitioner and directs the Petitioner to prudently purchase power from available options in future also.	It is submitted that to optimise the cost, EDG has already initiated the real time power procurement process whereby in case the power available from the exchange is cheaper, then the power from tied-up external source if costly is back down and cheaper power is procured from power exchange.
14	Renewable Energy Obligation	The Commission has noted the submission of the Petitioner and directs it to submit the	EDG has already submitted the status of compliance of RPO by affidavit dated

Petition for True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination for FY 2017-18

Sr. No.	Directives	Hon'ble Commission Observation made in the Tariff Order dated 18 th April 2016	Compliance by the Electricity Department Goa
		status report of same by 31st October 2016.	22 nd April 2016 and 14 th August 2015 vide case no. 175 of 2015, that it has totally fulfilled its RPO (both solar and Non-solar) target till FY 2015-16 by way of partly purchase of physical power and partly by RECs
15	Management Information System (MIS) and Database Management System DBMS	The Commission has noted the submission of the Petitioner and directs it to submit the status report on the same by 31 st July 2016.	MIS & DBMS will be implemented once R-APDRP part A project is completed.
16	Street Lights switching 'on ' and 'off	The Commission has noted the submission of the Petitioner and directs it to submit the status report on the same by 31 st July 2016.	Order is placed on M/s. EESL, Delhi. The work is under progress.
17	Submission of Status report on Electric shock-deaths	The Commission is happy to note that there are no deaths on this account in FY 2014-15. However, the Commission hereby directs the Petitioner to submit the Quarterly status reports on same. The Commission also directs the Petitioner to submit the status report of the physical progress of RAPDRP Part A by September 30,2016	The Quarterly Status report of the Electric shock was submitted on 30 th June 2016, post that there were no such event happened.
18	Billing and Collection Efficiency	Commission hereby directs the Petitioner to submit the quarterly report on the status of collection of arrears along with action plan for liquidating the arrears.	Efforts are made for compiling the data related to Billing efficiency from all the Divisions. However, the data issues are faced by the Department on the billing as specified in the above related Chapter. EDG is in the process of resolving the issues.
19	Capital Expenditure	The Commission directs the Petitioner to ensure compliance of this directive from next filing onwards.	Under the Scheduled Tribe Development Scheme, as regards the details of the remaining schemes of Rs. 83.13 crores, no new schemes have been approved by the Government except for the following:- 1) Work of SETC of 100 KVA distribution transformer alongwith HT line & AB switch at tapping point for electrification of Khadel wada Mangal of Cavrem-Pirla Village Panachayat in Sanguem constituency –Rs. 0.12 crores 2) Renovation and improvement of the existing LT Distribution network in

Sr. No.	Directives	Hon'ble Commission Observation made in the Tariff Order dated 18 th April 2016	Compliance by the Electricity Department Goa
			<p>Khola village panchayat under Sansad Adarsh Gram Yojana (SAGY) - Rs. 3.21 crores</p> <p>3) Development of village Panchayat Rachol as model village under Sansad Adarsh Gram Yojana (SAGY).-Rs.4.33 crores</p> <p>4) Providing 124 Nos. of 20 W LED fixtures at various places of V.P Molcornem and V.P Cavrem-Pirla in Sanguem constituency-Rs. 0.13 crores</p> <p>5) Electrification of left out wada "Bandel" of village Thodemol in V. P. Kalay, Sanguem in Sanguem Constituency - Rs.0.24 crores</p> <p>6) Work of revamping of existing HT/LT overhead lines, transformer double pole structure, providing street lighting, erection of new distribution transformers including power supply for various categories of consumers under the scheduled tribe category in V.P Mardol, Veling, Priol in Ponda taluka -Rs.2.78 crs</p> <p>7) Reconductoring and fortification of LT line network of village Murmune in V.P Guleli, Sattari taluka - Rs. 0.03 crores</p> <p>The Capital expenditure schemes costing Rs. 10 crores and more, will be submitted for prior approval of the Commission.</p>

CHAPTER 15. PRAYER'S TO THE COMMISSION

15.1 Prayer to the Hon'ble Commission

15.1.1 The Electricity Department, Government of Goa (EDG) respectfully prays to the Hon'ble Commission to:

- a) Accept and admit the petition for True-up of FY 2011-12 & FY 2012-13, APR for FY 2015-16 & FY 2016-17 and Tariff Determination for FY 2017-18 which is in line with the principles laid by Joint Electricity Regulatory Commission contained in MYT Regulations 2014 and Tariff Regulations 2009;
- b) Approve the total recovery and revenue gap of Final True up of FY 2011-12 and FY 2012-13, Provisional Annual Performance Review of FY 2015-16, True Up for FY 2015-16, Annual Performance Review for FY 2016-17 and Aggregate Revenue Requirement for FY 2017-18 and other claims as proposed by EDG.
- c) Approve the proposed cumulative Revenue Gap till FY 2017-18 amounting to Rs. **149 Crores** on provisional basis and the revenue gap as may be approved by the Hon'ble Commission during the process of finalising tariff petition is proposed to be met from the Budgetary support by Govt of Goa. It is submitted that Budgetary Support is limited to this amount and any further revenue gap at a later date when petition for true-up is filed based on actual accounts / figures, it would be dealt appropriately at that time.
- d) To consider the Tariff Design Philosophy and approve the proposed changes in Tariff Schedule (rationalisation of tariff categories & changes in applicability clauses) for FY 2017-18.
- e) Approve the Expected Revenue from Charges (ERC) for FY 2017-18 and the consolidated gap till FY 2017-18.
- f) The delay in filing this MYT Petition may please be condoned and the Hon'ble Commission is requested to accept this Petition and process the same.
- g) Pass suitable orders with respect to True-up of FY 2011-12 and FY 2012-13, APR for FY 2015-16 and FY 2016-17 and Tariff Determination for 2017-18 for the expenses to be incurred by ED - Goa for serving its consumers;
- h) To allow cost related to past interest on security deposit into ARR of FY 2017-18.

- i) Grant approval for the schedule of tariff, charges for services and schedule of charges as made in the petition for FY 2017-18.
- j) Grant any other relief as the Hon'ble Commission may consider appropriate.
- k) The petitioner craves leave of the Hon'ble Commission to allow further submission, addition and alteration to this petition as may be necessary from time to time.
- l) Condone any inadvertent omissions/errors/shortcomings and permit EDG to add/change/modify/alter this filing and make further submissions as may be required at a future date.
- m) 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.

The petitioner declares 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 order in relation thereto.

Annexure 1: Tariff Formats

**Annexure 2: Audited Financial Statement for
FY 2011-12 & FY 2012-13**

**Annexure 3: Assurance Documents from Government
of Goa for Budgetary Support.**

No 1/14/2016-Fin (Bud)/
Government of Goa
Finance Department (Budget)
Secretariat Complex,
Porvorim- Goa.
Dated: - 23/12/2016.

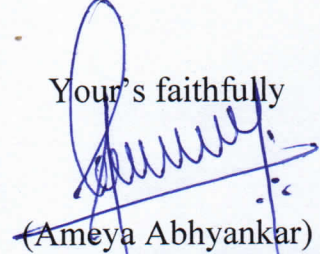
To,

The Chief Electrical Engineer,
Electricity Department,
3rd Floor, Vidyut Bhavan,
Panaji- Goa.

Sir,

I am to state that the Government of Goa has decided to provide the required budgetary support to meet the total revenue gap as may be approved by the Hon'ble Commission during the process of finalizing of tariff petition for the Financial Year 2017-18.

Your's faithfully


(Ameya Abhyankar)
Special Secretary (Budget)

SUBMISSION to JOINT ELECTRICITY REGULATORY COMMISSION

ANNUAL REVENUE REQUIREMENT

Tariff Filing Formats

Electricity Department of Goa

**TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND
TARIFF DETERMINATION FOR FY 2017-18**

Tariff Filing Formats

Electricity Department - Goa
Goa
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION
FOR FY 2017-18

Sr. No.	Title	Reference
1	2	3
1	Energy Demand	Form 1
2	AT & C Loss of Licensee	Form 2
3	Energy Balance	Form 3
4	Power Purchase Cost	Form 4
6	Investment Plan	Form 5
7	Capital Base & Return	Form 6
8	Fixed Asset	Form 7
9	Work in Progress	Form 8
10	Interest Capitalised	Form 9
11	Loan Details	Form 10
12	Normative Interest Expenses	Form 10 A
13	Restructuring of Outstanding Loan	Form 11
14	Asset & Depreciation	Form 12
15	R&M Expense	Form 13
16	No. of Employees	Form 14
17	Employee Cost	Form 15
18	A&G Expenses	Form 16
19	Bad & Doubtful Debts	Form 17
20	Working Capital	Form 18
21	Security Deposit	Form 18 A
22	Provisions of Interest on Security Deposits from Consumers	Form 18 B
23	Foreign Exchange Rate Variation	Form 19
24	Non Tariff Income	Form 20
25	Revenue from other business	Form 21
26	Lease Details	Form 22
27	Wholesale Price Index	Form 23
28	Equity & Loan	Form 24
29	Annual Revenue Requirement	Form 25
30	Cumulative Gap	Form 25B
31	Revenue from Sale of Power for Previous Years and Current Years	Form 26
32	Revenue from Sale of Power for MYT Control Period at Existing Tariffs	Form 26 A
33	Segregation of Wheeling Business and Retail Supply Business of Control Period	Form 27

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ENERGY DEMAND
YEAR 2011-12 (April 2011 to March 2012) - Actuals

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/kVA)	Demand (in MW)*		Energy Sale/ Demand (MUs)
				Unrestricted	Restricted	
1	2	3	4	5	6	7
<u>A. LOW TENSION SUPPLY</u>						
1	(a) LTD/Domestic	410,457	683,756			752
	(b) LTD/L.I.G.	11,432	5,610			8
	(c) LTD Domestic Mixed	574	84			3
2	LTC/Commercial	76,792	256,810			249
3	(a) LTP/Motive Power	6,799	332,470			78
	(b) LTP Mixed (Hotel Industries)	17,869				6
	(c) LTP Ice Manufacturing	34				7
4	LTAG/Agriculture	8,622	66,250			14
5	(a) LTPL (Public lighting)	972	12,670			31
6	LTPWW/Public Water works	4,064	12,350			3
	Total	537,615	1,370,000	-	-	1,151
<u>B. HIGH TENSION SUPPLY</u>						
7	HT (Mixed)	180	75,976			129
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	24	119,953			461
9	HTI Industrial	423	250,412			643
10	HTAG (Agriculture)	43	14,435			7
11	EHTI (Industrial)	4	91,953			171
12	HT P.W.W. & Sewage system	29	36,600			139
13	HT. M.E.'s Defence Estt.	12	8,894			25
14	HTI (Steel Rolling)	15	7,635			121
15	HTI / IT High Tech	10	4,082			6
16	HTI/Ice Manufacturing	1				0
17	(a) Sale from EDG to GSPL (Div. VII)	1				9
18	Sale to MSEDCL (Div. VI)	1				
	Total	743	609,941	-	-	1,711
<u>C. TEMPORARY SUPPLY</u>						
19	(a) L.T. Temporary	5,535	2,890			18
	(b) H.T. Temporary	2				0
	Total	5,537	2,890	-	-	18
	Total	543,895	1,982,831	527	471	2,880

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ENERGY DEMAND
YEAR 2012-13 (April 2012 to March 2013) - Actuals

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/kVA)	Demand (in MW)*		Energy Sale/ Demand (MUs)
				Unrestricted	Restricted	
1	2	3	4	5	6	7
	A. LOW TENSION SUPPLY					
1	(a) LTD/Domestic	409,792	718,042			797
	(b) LTD/L.I.G.	11,249	5,610			7
	(c) LTD Domestic Mixed	716	111			4
2	LTC/Commercial	77,705	269,854			251
3	(a) LTP/Motive Power	6,716	349,094			75
	(b) LTP Mixed (Hotel Industries)	109	-			5
	(c) LTP Ice Manufacturing	40				7
4	LTAG/Agriculture	10,060	75,714			13
5	(a) LTPL (Public lighting)	1,307	12,670			33
6	LTPWW/Public Water works	269	20,815			2
	Total	517,963	1,451,910	-	-	1,196
	B. HIGH TENSION SUPPLY					
7	HT (Mixed)	171	79,775			115
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	25	123,552			526
9	HTI Industrial	433	267,941			640
10	HTAG (Agriculture)	42	17,322			6
11	EHTI (Industrial)	5	96,551			132
12	HT P.W.W. & Sewage system	32	37,698			140
13	HT. M.E.'s Defence Estt.	12	9,339			25
14	HTI (Steel Rolling)	13	8,093			64
15	HTI / IT High Tech	36	4,082			41
16	HTI/Ice Manufacturing	1				0
17	(a) Sale from EDG to GSPL (Div. VII)	1				5
18	Sale to MSEDCL (Div. VI)	1				-
19	HTI Hotel Industry	11				14
	Total	783	644,353	-	-	1,709
	C. TEMPORARY SUPPLY					
20	(a) L.T. Temporary	4,867	2,953			20
	(b) H.T. Temporary	2				1
	Total	4,869	2,953	-	-	20
	Total	523,615	2,099,215	524	475	2,925

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ENERGY DEMAND
YEAR 2013-14 (April 2013 to March 2014) - Approved in Tariff Order

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/kVA)	Demand (in MW)*		Energy Sale/ Demand (MUs)
				Unrestricted	Restricted	
A. LOW TENSION SUPPLY						
1	(a) LTD/Domestic	443,947	1,127,149			800
	(b) LTD/L.I.G.	14,321	1,201			3
	(c) LTD Domestic Mixed	50	2,186			5
2	LTC/Commercial	95,062	333,665			291
3	(a) LTP/Motive Power	9,581	457,533			89
	(b) LTP Mixed (Hotel Industries)	126	3,298			5
	(c) LTP Ice Manufacturing	45	1,873			8
4	LTAG/Agriculture	11,094	63,970			16
5	(a) LTPL (Public lighting)	9,076	9,011			24
6	LTPWW/Public Water works	550	21,463			6
	Total	583,852	2,021,349	-	-	1,247
B. HIGH TENSION SUPPLY						
7	HT (Mixed)	201	67,716			111
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	26	93,316			532
9	HTI Industrial	464	357,311			629
10	HTAG (Agriculture)	42	8,211			5
11	EHTI (Industrial)	4	76,596			184
12	HT P.W.W. & Sewage system	31	26,879			139
13	HT. M.E.'s Defence Estt.	12	6,818			25
14	HTI (Steel Rolling)	13	16,219			59
15	HTI / IT High Tech	8	5,164			20
	Total	801	658,230	-	-	1,704
C. TEMPORARY SUPPLY						
		4,085	16,316	-	-	10
20	(a) L.T. Temporary	4,085	16,316			10
	(b) H.T. Temporary	-				
	Total	588,738	2,695,896	529	529	2,962

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ENERGY DEMAND
YEAR 2014-15 (April 2014 to March 2015) - Approved in Tariff Order

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/kVA)	Demand (in MW)*		Energy Sale/ Demand (MUs)
				Unrestricted	Restricted	
	A. LOW TENSION SUPPLY					
1	(a) LTD/Domestic	478,893	1,634,435			728
	(b) LTD/L.I.G.	11,547	2,046			2
	(c) LTD Domestic Mixed	1,405	3,191			7
2	LTC/Commercial	89,081	277,265			268
3	(a) LTP/Motive Power	6,981	165,019			179
	(b) LTP Mixed (Hotel Industries)	148	4,569			5
	(c) LTP Ice Manufacturing	66	3,072			8
4	LTAG/Agriculture	11,145	61,326			25
5	(a) LTPL (Public lighting)	2,740	9,598			40
6	LTPWW/Public Water works	744	5,600			6
	Total	602,750	2,166,121			1,266
	B. HIGH TENSION SUPPLY					
7	HT (Mixed)	168	74,767			134
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	37	111,840			565
9	HTI Industrial	396	240,374			607
10	HTAG (Agriculture)	41	8,258			6
11	EHTI (Industrial)	5	51,833			175
12	HT P.W.W. & Sewage system	35	90,796			137
13	HT. M.E.'s Defence Estt.	12	7,080			27
14	HTI / IT High Tech	12	6,658			21
15	HTI/Ice Manufacturing	2	364			2
16	HTI Hotel Industry	110	41,559			137
	Total	818	633,529	-	-	1,811
	C. TEMPORARY SUPPLY	5,033	8,025			38
17	(a) L.T. Temporary	4,929	7,502			38
	(b) H.T. Temporary	-				-
	(C) Hoarding/Sign Board	104	523			0.20
	Total	608,601	2,807,675	501	489	3,114

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ENERGY DEMAND
YEAR 2015-16 (April 15 to March 16) - Actual

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/kVA)	Demand (in MW)*		Energy Sale/ Demand (MUs)
				Unrestricted	Restricted	
A. LOW TENSION SUPPLY						
1	(a) LTD/Domestic	468,864	1,179,219			1,023
	(b) LTD/L.I.G.	2,177	205			2
	(c) LTD Domestic Mixed	4,282	12,458			14
2	LTC/Commercial	87,641	289,337			311
3	(a) LTP/Motive Power	6,050	103,851			87
	(b) LTP Mixed (Hotel Industries)	190	4,451			7
4	LTAG/Agriculture	10,904	32,108			16
5	(a) LTPL (Public lighting)	112	1,092			3
6	LTH/ Hoardings & Signboards	64	438			0.18
	Total	580,284	1,623,159	-	-	1,463
B. HIGH TENSION SUPPLY						
7	HT (Mixed)	96	36,971			56
8	HTD/Domestic	2	200			0
9	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	37	110,250			500
10	HTI Industrial	557	414,965			1,079
11	HTAG (Agriculture)	43	22,483			21
12	HT. M.E.'s Defence Estt.	11	6,430			25
	Total	746	591,299	-	-	1,681
C. TEMPORARY SUPPLY						
13	(a) L.T. Temporary	4,452	15,735			16
	(b) H.T. Temporary	-	-			-
	Total	585,482	2,230,193	583	552	3,160

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ENERGY DEMAND
YEAR 2016-17 H1 (April 2016 to September 2016) - Actual

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/kVA)	Demand (in MW)*		Energy Sale/ Demand (MUs)
				Unrestricted	Restricted	
A. LOW TENSION SUPPLY						
1	(a) LTD/Domestic	474,483	2,020,309			556.78
	(b) LTD/L.I.G.	2,693	246			2.91
2	LTC/Commercial	91,890	318,636			176.99
3	(a) LTP/Motive Power	4,910	122,090			36.83
	(b) LTP Mixed (Hotel Industries)	1,390	135,979			24.94
4	LTAG/Agriculture	11,072	34,728			8.78
5	(a) LTPL (Public lighting)	408	1,630			3.49
	Tariff-LT Hoarding and SignBoard	59	455			0.09
	Total					
B. HIGH TENSION SUPPLY						
7	HT (Mixed)	167	63,147			31.67
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	35	104,300			253.34
9	HTI Industrial	608	667,305			583.23
10	HTAG (Agriculture)	43	22,309			20.04
11	HT. M.E.'s Defence Estt.	12	6,880			12.71
12	Tariff HTD/Domestic	3	4,235			3.12
	Total					
C. TEMPORARY SUPPLY						
13	(a) L.T. Temporary	3,756	12,661			6.96
	(b) H.T. Temporary	1	350			0.04
		591,530	3,515,261	497	496	1,721.92

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ENERGY DEMAND
YEAR 2017-18 (April 2017 to March 2018) - Projections approved in Order

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/kVA)	Demand (in MW)*		Energy Sale/ Demand (MUs)
				Unrestricted	Restricted	
1	2	3	4	5	6	5
	A. LOW TENSION SUPPLY					
1	(a) LTD/Domestic	486,985	1,354,057			924
	(b) LTD/L.I.G.	3,049	338			1
	(c) LTD Domestic Mixed	4,399	13,044			13
2	LTC/Commercial	91,048	281,533			310
3	(a) LTI/Industries	6,403	115,580			131
	(b) LTP Mixed (Hotel Industries)	222	4,285			5
4	LTAG/Agriculture	10,821	34,481			24
5	(a) LTPL (Public lighting)	2,740	9,598			37
6	Tariff-LT Hoarding and SignBoard	104	35			0
	B. HIGH TENSION SUPPLY					
7	HT/Domestic	2	193			0
8	HTI/Industries	645	417,220			1,346
9	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	37	114,756			572
10	HTC/Commercial	116	42,567			76
11	HTAG (Agriculture)	41	8,378			6
12	HT. M.E.'s Defence Estt.	12	7,080			27
	C. TEMPORARY SUPPLY					
13	(a) L.T. Temporary	2,581	1,098			22
	(b) H.T. Temporary					
	Total	609,207	2,404,243	-	-	3,495

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ENERGY DEMAND
YEAR 2016-17 H2 (October 2016 to March 2017) - Estimated

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/kVA)	Demand (in MW)*		Energy Sale/ Demand (MUs)
				Unrestricted	Restricted	
<u>A. LOW TENSION SUPPLY</u>						
1	(a) LTD/Domestic	474,483	2,020,309			556.78
	(b) LTD/L.I.G.	2,693	246			2.91
2	LTC/Commercial	91,890	318,636			176.99
3	(a) LTP/Motive Power	4,910	122,090			36.83
	(b) LTP Mixed (Hotel Industries)	1,390	135,979			24.94
4	LTAG/Agriculture	11,072	34,728			8.78
5	(a) LTPL (Public lighting)	408	1,630			3.49
6	Tariff-LT Hoarding and SignBoard	59	455			0.09
<u>B. HIGH TENSION SUPPLY</u>						
7	HT (Mixed)	167	63,147			31.67
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	35	104,300			253.34
9	HTI Industrial	608	667,305			583.23
10	HTAG (Agriculture)	43	22,309			20.04
11	HT. M.E.'s Defence Estt.	12	6,880			12.71
12	Tariff HTD/Domestic	3	4,235			3.12
<u>C. TEMPORARY SUPPLY</u>						
13	(a) L.T. Temporary	3,756	12,661			6.96
	(b) H.T. Temporary	1	350			0.04
		591,530	3,515,261			1,721.92

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ENERGY DEMAND
YEAR 2016-17 (April 2016 to March 2017) - Estimated

Sr. No.	Category of Consumer	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW/kVA)	Demand (in MW)*		Energy Sale/ Demand (MUs)
				Unrestricted	Restricted	
A. LOW TENSION SUPPLY						
1	(a) LTD/Domestic	474,483	2,020,309			1,114
	(b) LTD/L.I.G.	2,693	246			6
2	LTC/Commercial	91,890	318,636			354
3	(a) LTP/Motive Power	4,910	122,090			74
	(b) LTP Mixed (Hotel Industries)	1,390	135,979			50
4	LTAG/Agriculture	11,072	34,728			18
5	(a) LTPL (Public lighting)	408	1,630			7
6	Tariff-LT Hoarding and SignBoard	59	455			0
B. HIGH TENSION SUPPLY						
7	HT (Mixed)	167	63,147			63
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	35	104,300			507
9	HTI Industrial	608	667,305			1,166
10	HTAG (Agriculture)	43	22,309			40
11	HT. M.E.'s Defence Estt.	12	6,880			25
12	Tariff HTD/Domestic	3	4,235			6
C. TEMPORARY SUPPLY						
13	(a) L.T. Temporary	3,756	12,661			14
	(b) H.T. Temporary	1	350			0
		591,530	3,515,261			3,443.85

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF
DETERMINATION FOR FY 2017-18
SUMMARY OF ENERGY DEMAND
F.Y. 2011-12 to FY 2017-18

Category of Consumer	FY 2011-12 (Actual)			FY 2012-13 (Actual)		
	Consumers [No]	Connected Load at the end of the Year (KW/kVA)	Sales [MUs]	Consumers [No]	Connected Load at the end of the Year (KW/kVA)	Sales [MUs]
LTD/Domestic	410,457	683,756	752	409,792	718,042	797
LTD/L.I.G.	11,432	5,610	8	11,249	5,610	7
LTD Domestic Mixed	574	84	3	716	111	4
LTC/Commercial	76,792	256,810	249	77,705	269,854	251
LTP Industries	24,702	332,470	91	6,865	349,094	88
Agriculture	8,622	66,250	14	10,060	75,714	13
LTPL (Public lighting)	972	12,670	31	1,307	12,670	33
Public Water works	4,064	12,350	3	269	20,815	2
Temporary	5,535	2,890	18	4,867	2,953	20
Total LT	543,150	1,372,890	1,169	522,830	1,454,863	1,216
Mixed	180	75,976	129	171	79,775	115
Domestic						
Industrial	451	462,318	1,275	463	488,044	1,298
Agriculture	43	14,435	7	42	17,322	6
P.W.W. & Sewage system	29	36,600	139	32	37,698	140
M.E.'s Defence Estt.	12	8,894	25	12	9,339	25
Steel Rolling	15	7,635	121	13	8,093	64
IT High Tech	10	4,082	6	36	4,082	41
Ice Manufacturing	1	-	0	1	-	0
Sale to GSPL/GEPL/REL/MSEDCL	2	-	9	2	-	5
Hotel Industry				11	-	14
Temporary	2.00	-	0	2	-	1
Total HT	745	609,941	1,711	785	644,353	1,710
Total metered	543,895	1,982,831	2,880	523,615	2,099,215	2,925
Total unmetered						
Total	543,895	1,982,831	2,880	523,615	2,099,215	2,925

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

SUMMARY OF ENERGY DEMAND
F.Y. 2011-12 to FY 2017-18

Category of Consumer	FY 2013-14 (Approved)			FY 2014-15 (Approved)			FY 2015-16		
	Consumers [No]	Connected Load at the end of the Year (KW/kVA)	Sales [MUs]	Consumers [No]	Connected Load at the end of the Year (KW/kVA)	Sales [MUs]	Consumers [No]	Connected Load at the end of the Year (KW/kVA)	Sales [MUs]
LTD/Domestic	443,947	1,127,149	800	478,893	1,634,435	728	468,864	1,179,219	1,023
LTD/L.I.G.	14,321	1,201	3	11,547	2,046	2	2,177	205	2
LTD Domestic Mixed	50	2,186	5	1,405	3,191	7	4,282	12,458	14
LTC/Commercial	95,062	333,665	291	89,081	277,265	268	87,641	289,337	311
LTP Industries	9,752	462,704	102	7,195	172,660	191	6,240	108,302	94
Agriculture	11,094	63,970	16	11,145	61,326	25	10,904	32,108	16
LTPL (Public lighting)	9,076	9,011	24	2,740	9,598	40	112	1,092	3
Public Water works	550	21,463	6	744	5,600	6			
Temporary	4,085	16,316	10	5,033	8,025	38	4,516	16,174	16
Total LT	587,937	2,037,665	1,257	607,783	2,174,146	1,303	584,736	1,638,894	1,479
Mixed	201	67,716	111	168	74,767	134	96	36,971	56
Domestic							2	200	0
Industrial	494	527,223	1,345	438	404,047	1,347	594	525,215	1,579
Agriculture	42	8,211	5	41	8,258	6	43	22,483	21
P.W.W. & Sewage system	31	26,879	139	35	90,796	137			
M.E.'s Defence Estt.	12	6,818	25	12	7,080	27	11	6,430	25
Steel Rolling	13	16,219	59						
IT High Tech	8	5,164	20	12	6,658	21			
Ice Manufacturing				2	364	2			
Sale to GSPL/GEPL/REL/MSEDCL									
Hotel Industry				110	41,559	137			
Temporary	-	-	-	-	-	-	-	-	-
Total HT	801	658,230	1,704	818	633,529	1,811	746	591,299	1,681
Total metered	588,738	2,695,896	2,962	608,601	2,807,675	3,114	585,482	2,230,193	3,160
Total unmetered									
Total	588,738	2,695,896	2,962	608,601	2,807,675	3,114	585,482	2,230,193	3,160

ELECTRICITY DEPARTMENT - GOA

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

SUMMARY OF ENERGY DEMAND

F.Y. 2011-12 to FY 2017-18

ELECTRICITY DEPARTMENT - GOA

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

SUMMARY OF ENERGY DEMAND

F.Y. 2011-12 to FY 2017-18

Category of Consumer	FY 2016-17 (H1 Actual)			FY 2016-17 (H2 Estimated)			FY 2016-17 (H1+H2) Estimated			FY 2017-18 - Projections approved in Order		
	Consumers [No]	Connected Load at the end of the Year (KW/kVA)	Sales [MUs]	Consumers [No]	Connected Load at the end of the Year (KW/kVA)	Sales [MUs]	Consumers [No]	Connected Load at the end of the Year (KW/kVA)	Sales [MUs]	Consumers [No]	Connected Load at the end of the Year (KW/kVA)	Sales [MUs]
LTD/Domestic	474,483	2,020,309	557	474,483	2,020,309	557	474,483	2,020,309	1,114	486,985	1,354,057	924
LTD/L.I.G.	2,693	246	3	2,693	246	3	2,693	246	6	3,049	338	1
LTD Domestic Mixed							-	-	-	4,399	13,044	13
LTC/Commercial	91,890	318,636	177	91,890	318,636	177	91,890	318,636	354	91,048	281,533	310
LTP Industries	4,910	122,090	37	4,910	122,090	37	4,910	122,090	74	6,625	119,865	136
Agriculture	11,072	34,728	9	11,072	34,728	9	11,072	34,728	18	10,821	34,481	24
LTPL (Public lighting)	408	1,630	3	408	1,630	3	408	1,630	7	2,740	9,598	37
Public Water works							-	-	-			
Temporary	3,815	13,116	7	3,815	13,116	7	3,815	13,116	14	2,581	1,133	22
Total LT	589,271	2,510,756	793	589,271	2,510,756	793	589,271	2,510,756	1,586	608,249	1,814,049	1,467
Mixed	167	63,147	32	167	63,147	32	167	63,147	63			
Domestic	3	4,235	3	3	4,235	3	3	4,235	6	2	193	0
Industrial	643	771,605	837	643	771,605	837	643	771,605	1,673	798	574,543	1,994
Agriculture	43	22,309	20	43	22,309	20	43	22,309	40	41	8,378	6
P.W.W. & Sewage system							-	-	-			
M.E.'s Defence Estt.	12	6,880	13	12	6,880	13	12	6,880	25	12	7,080	27
Steel Rolling							-	-	-			
IT High Tech							-	-	-			
Ice Manufacturing							-	-	-			
Sale to GSPL/GEPL/REL/MSEDCL							-	-	-			
Hotel Industry	1,390	135,979	25	1,390	135,979	25	1,390	135,979	50			
Temporary	1	350	0	1	350	0	1	350	0	104	-	-
Total HT	2,259	1,004,505	929	2,259	1,004,505	929	2,259	1,004,505	1,858	958	590,194	2,027
Total metered	591,530	3,515,261	1,722	591,530	3,515,261	1,722	591,530	3,515,261	3,444	609,207	2,404,243	3,494
Total unmetered							-	-	-			
Total	591,530	3,515,261	1,722	591,530	3,515,261	1,722	591,530	3,515,261	3,444	609,207	2,404,243	3,494

Information regarding Distribution Loss of Licensee
TRUE-UP FOR FY 11-12, 12-13, APR for FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Name of licensee Electricity Department - Goa

S.No	Particulars	Calculation	Unit	True Up		Approved		APR		Ensuing Year
				FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM *	A	MU							
2	Input energy (metered Import) received at interface points of DISCOM network.	B	MU	3,437	3,385	3,366	3,520	3,863	3,918	3,926
3	Input energy (metered Export) by the DISCOM at interface points of DISCOM network.	C	MU							
5	Total energy available for sale within the licensed area to the consumers of the DISCOM	D=A+B+C	MU	3,437	3,385	3,366	3,520	3,863	3,918	3,926
6	Energy billed to metered consumers within the licensed area of the DISCOM	E	MU	2,880	2,925	2,962	3,114	3,160	3,443.85	3,494.37
7	Energy billed to un-metered consumers within the licensed area of the DISCOM **	F	MU							
8	Total energy billed	G=E+F	MU	2,880	2,925	2,961.80	3,114.20	3,160.23	3,443.85	3,494.37
10	Amount billed to consumer within the licensed area of DISCOM (incl FPPCA)	H	Rs.Crs	856	974	990.36	1,077.01	1,235.21	1,545.03	1,553.88
11	Amount realized by the DISCOM out of the amount Billed at H	I	Rs.Crs	754	955	971.34	1,056.33	1,211.49	1,515.37	1,524.04
12	Collection efficiency (%) (= Revenue realized/ Amount billed)	J=(I/H)x100	%	88%	98%	98.08%	98.08%	98.08%	98.08%	98.08%
13	Energy realized by the DISCOM	K=L x G	MU	2,535	2,869	2,904.93	3,054.40	3,099.55	3,377.72	3,427.27
14	Distribution loss (%)	L={(D-G)/D}x100	%	16.21%	13.58%	12.00%	11.52%	18.20%	12.10%	11.00%
15	AT&C Loss (%)	M={(D-K)/D}x100	%	26.26%	15.24%	13.69%	13.22%	19.77%	13.79%	12.71%

FORMAT-3
ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF
DETERMINATION FOR FY 2017-18

ENERGY BALANCE
(All figures in MU)

Sr. No.	Item	FY 2011-12	FY 2012-13			FY 2013-14	FY 2014-15	FY 2015-16		
		Total	WR	SR	Total	Total	Total	WR	SR	Total
1	2	3	4	5	6	7	8	9	10	11
1	Energy Input at Goa Periphery	3,195	2,587	612	3,199	3,278	3,382.82	2,952	709	3,661
2	Total Power Scheduled/ Purchased at Goa Periphery									
	Total Schedule Billed Drawal - CGS	3,421	2,592	759	3,351	3,384.60	3,337	2,665	767	3,431
	Add: Overdrawal		104	10	114	77.75	100	170	20	191
	Add: Power purchase from NVVN / Banking	315	21		21	7.75				-
	Add: Power purchase from Traders/ Open Market						155	193		193
	Less: Underdrawal	167	38	56	94	34	17	13	11	24
	Add: Renewable Power						5	48		48
	Less: Power diverted to Exchange	189	39	-	39					-
	Less: Banking Power	24								
	Total	3,357	2,640	713	3,352	3,437	3,580	3,062	776	3,838
3	PGCIL Losses - MUs	162.09	53	100	153	158.93	197	110	67	177
	PGCIL Losses - %	4.83%	1.99%	14.09%	4.57%	4.47%	5.28%	3.59%	8.69%	4.62%
4	Total Power Purchased within Goa State									
	Add: Co-generation	128	72		72	29	158	202		202
	Add: Independent Power Producers (IPP)	114	114		114	59	(21)			
	Total	242	186	-	186	88	137	202	-	202
5	Total Power Purchase availability after PGCIL Losses	3,437	2,773	612	3,385	3,366	3,520			3,863
	Less: Retail Sales to Consumers	2,880			2,925	2,962	3,114			3,160
	Distribution Losses - MUs	557			460	404	405			703
6	Distribution Losses - %	16.21%			13.58%	12.00%	11.50%			18.20%

FORMAT-3
ELECTRICITY DEPARTMENT - GOA

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

ENERGY BALANCE
(All figures in MU)

Sr. No.	Item	FY 2016-17 H1			FY 2016-17 H2			FY 2016-17 (H1+H2)			FY 2017-18
		WR	SR	Total	WR	SR	Total	WR	SR	Total	Total
1	2	12	13	14	15	16	17	18	19	20	21
1	Energy Input at Goa Periphery	1,548	333	1,881			2,037			3,918	3,838
2	Total Power Scheduled/ Purchased at Goa Periphery										
	Total Schedule Billed Drawal - CGS	1,355	368	1,723	1,350	361	1,711	2,705	728	3,433	3,746
	Add: Overdrawal	118	21	139			-	118	21	139	-
	Add: Power purchase from NVVN / Banking		-	-	81		81	81	-	81	-
	Add: Power purchase from Traders/ Open Market	110		110	25		25	135	-	135	
	Less: Underdrawal	10	2	12			-	10	2	12	-
	Add: Renewable Power	31		31	137		137	167	-	167	85
	Less: Power diverted to Exchange			-	20		20	20	-	20	-
	Less: Banking Power	14		14.35			-	14	-	14	
	Total	1,589	387	1,976	1,573	361	1,933	3,162	747	3,909	3,831.09
3	PGCIL Losses - MUs	41	53	95	42	27	70	84	80	164	160
	PGCIL Losses - %	2.60%	13.82%	4.80%	2.70%	7.50%	3.60%	2.65%	10.77%	4.20%	4.18%
4	Total Power Purchased within Goa State										
	Add: Co-generation	86		86	86		86	173	-	173	167
	Add: Independent Power Producers (IPP)			-			-			-	-
	Total	86	-	86	86	-	86	173	-	173	167
5	Total Power Purchase availability after PGCIL Losses	1,634	333	1,968	1,616	333.80	1,950	3,251	666.90	3,918	3,926
	Less: Retail Sales to Consumers			1,722			1,722			3,444	3,494
	Distribution Losses - MUs			246			228			474	432
6	Distribution Losses - %			12.48%			11.71%			12.10%	11.00%

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST YEAR 2011-12 (Actuals - April 2011 to March 2012)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplementary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4		5	6	7	8	9	10	11	12	13	14	15	16	17	18
A	Central Sector Power Stations																
I	NTPC	10,654		336	-	-	-	-	3,207.25		3,195		168.02	350.40	97.58	19.02	635.02
	KSTPS	2100	10.03	211					1,524.46			72.00	61.06	109.76	37.75	(3.40)	205.17
	VSTPS - I	1260	2.82	36					293.43			130.65	14.95	38.34	10.59	3.66	67.54
	VSTPS - II	1000	1.24	12					108.76			121.53	7.05	13.22	4.34	0.92	25.53
	VSTPS - III	1000	1.04	10					100.32			131.36	9.59	13.18	3.09	1.48	27.35
	VSTPS-IV	500	1.17	6								-					-
	KGPP	656	1.89	12					96.32			261.66	7.61	25.20	9.69	2.74	45.24
	GGPP	657	1.92	13								-					-
	SIPAT- I	1980	1.06	21					31.29			66.41	3.47	2.08	0.06	0.10	5.71
	FSTPS	0	-	-								-				0.08	0.08
	KSTPS-III	500	-	5					33.47			78.33	5.51	2.62	0.09	(0.13)	8.09
	TSTPS	0	-	-								-				0.01	0.01
	KHSTPS-I	0	-	-								-				0.02	0.02
	RSTPS	0	-	-					831.01			135.31	38.21	112.44	23.47	6.06	180.18
	SIPAT- II	1000	-	10					94.38		3,195	96.25	10.45	9.08	1.00	5.22	25.75
	Mouda	0	-	-								-					-
	JGPS								93.82				10.09	24.48	7.52	2.27	44.36
II	RGPPL																-
III	NPCIL								213.60					54.74			54.74
	KAPS								130.53			232.15		30.30			30.30
	TAPS								83.08			294.18		24.44			24.44
IV	Traders								315.21					121.08			121.08
	NVVN Limited								315.21			384.14		121.08			121.08
V	OVER/ UNDER DRAWAL								(166.61)					29.64			29.64
B	Within State Generations																
I	CO- GENERATION	-	-	-	-	-	-	-	128.14		128.14		-	30.82	-	-	30.82
	Goa Energy Private Limited								113.82		113.82			27.38			27.38
	Goa Sponge & Power Limited								14.32		14.32			3.44			3.44
C	IPP:																
	Reliance Infra								114.17		114.17	1,340.61		153.06			153.06
D	OTHER CHARGES	-	-	-	-	-	-	-	-			-	-	-	-	-	100.74
	PGCIL Transmission Charges, Wheeling & Other Charges																100.74
	Total								3,811.77		3,437.19	194.07	168.02	739.74	97.58	19.02	1,125.10

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST YEAR 2012-13 (Actuals - April 2012 to March 2013)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplement ary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
A	Central Sector Power Stations																
I	NTPC	10,654		336.00	-	586.59	-	-	3,111.43		3,199.16		218.60	382.41	1.73	48.03	650.77
	KSTPS	2100	10.03	211	-	90.96	-	-	1,562.75			92.12	87.85	143.96	0.94	32.54	265.30
	VSTPS - I	1260	2.82	36	-	93.97	-	-	242.75			127.68	17.02	30.99	0.37	8.03	56.42
	VSTPS - II	1000	1.24	12	-	94.17	-	-	99.61			116.61	7.70	11.62	0.15	2.76	22.22
	VSTPS - III	1000	1.04	10	-	98.96	-	-	89.54			117.05	9.75	10.48	0.14	2.46	22.84
	VSTPS-IV	500	1.17	6	-	24.39	-	-	1.11			99.90	0.41	0.11	-	(0.20)	0.32
	KGPP	656	1.89	12	-	90.56	-	-	56.54			244.43	8.44	13.82	-	(0.45)	21.82
	GGPP	657	1.92	13	-	93.58	-	-	67.29			233.57	10.92	15.72	-	(0.09)	26.55
	SIPAT- I	1980	1.06	21	-	-	-	-	116.73			132.02	16.65	15.41	0.04	0.98	33.08
	FSTPS	0	-	-	-	0.00%	-	-	-			-	-	-	-	0.05	0.05
	KSTPS-III	500	-	5	-	0.00%	-	-	42.29			91.41	6.14	3.87	0.03	0.31	10.34
	TSTPS	0	-	-	-	0.00%	-	-	-			-	-	-	-	-	-
	KHSTPS-I	0	-	-	-	0.00%	-	-	-			-	-	-	-	-	-
	RSTPS	0	-	-	-	0.00%	-	-	758.93			167.99	43.45	127.50	-	11.20	182.14
	SIPAT- II	1000	-	10	-	0.00%	-	-	73.78		3,199.16	120.70	10.00	8.91	0.06	0.29	19.25
	Mouda	0	-	-	-	0.00%	-	-	0.10			297.80	0.26	0.03	-	(0.24)	0.05
	Add/ Less: Other Adjustments	0														(9.60)	(9.60)
II	RGPPL								41.78					23.45			23.45
III	NPCIL								197.43					50.23			50.23
	KAPS								109.79			232.99		25.58			25.58
	TAPS								87.64			281.26		24.65			24.65
IV	Traders								20.82					8.28			8.28
	NVVN Limited								20.82			397.77		8.28			8.28
V	OVER/ UNDER DRAWAL								19			363.44		38.31			38.31
B	Within State Generations																
I	CO- GENERATION	-	-	-	-	-	-	-	71.80		71.80		-	17.09	-	-	17.09
	Goa Energy Private Limited								61.64		61.64			14.65			14.65
	Goa Sponge & Power Limited								10.17		10.17	240.00		2.44			2.44
C	IPP:																
	Reliance Infra								113.83		113.83	1,193.23	21.51	135.83			157.34
D	OTHER CHARGES	-	-	-	-	-	-	-	-							99.75	99.75
	PGCIL Transmission Charges, Wheeling & Other Charges															99.75	99.75
	Total	10,654		336.00	-	-	-	-	3,576.54		3,384.80	183.31	240.11	655.60	1.73	147.78	1,045.22

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST YEAR 2013-14 - (Approved April 2013 to March 2014)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplementary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
A	Central Sector Power Stations																
I	NTPC	-						3,135.62	-	-	-	230.97	424.46	5.30	23.12	683.85	
	KSTPS							1,569.88				85.74	153.64	3.27	7.82	250.47	
	KORBA - III							19.20				2.98	1.93			4.91	
	VSTPS - I							246.44				17.55	31.68	0.73	2.64	52.60	
	VSTPS - II							100.82				6.68	12.21	0.32	1.41	20.62	
	VSTPS -III							87.14				9.69	10.57	0.29	0.74	21.29	
	VSTPS-IV							44.78				6.86	5.50	0.12	0.04	12.52	
	KGPP							31.70				7.97	7.95		(2.20)	13.72	
	GGPP							51.61				9.97	12.47		(2.34)	20.10	
	SIPAT- I							156.44				19.79	25.56	0.32	4.37	50.04	
	FSTPS														0.01	0.01	
	KSTPS-III							18.92				3.07	1.90	0.08	0.47	5.52	
	RSTPS							717.90				43.50	146.90		4.68	195.08	
	SIPAT- II							82.05				10.41	13.87	0.17	0.57	25.02	
	Mouda							0.99				2.50	0.28			2.78	
	Other Adjustments /Banking							7.75							4.91	4.91	
	MSTPS I											4.26				4.26	
																-	
II	RGPPL							65.24				9.60	24.26			33.86	
																-	
III	NPCIL	-	-					191.49			-	-	49.67	-	-	49.67	
	Tarapur, Thane							76.41					22.07			22.07	
	Kakorapur, Surat							115.08					27.60			27.60	
IV	OVER DRAWAL							77.75								16.10	
B	Within State Generations																
I	CO- GENERATION	-	-	-	-	-	-	29.20	-	-	-	-	6.66	-	-	6.66	
	Goa Energy Private Limited							23.58					5.32			5.32	
	Goa Sponge & Power Limited							5.62					1.34			1.34	
C	IPP:																
	Reliance Infra							58.83				19.95	16.49		(1.61)	34.83	
D	OTHER CHARGES																
	PGCIL Transmission Charges, Wheeling & Other Charges														109.03	109.03	
E	Less: Additional UI Charges															0.59	
F	Total							3,558.13				260.52	521.54	5.30	130.54	933.46	

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST YEAR 2014-15 (Approved April 2014 to March 2015)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Net Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplement ary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
A	Central Sector Power Stations																
I	NTPC	14,274						3,133			-	238	490	7	8	743.01	
	KSTPS	2,100						1,453.87				81.40	142.87	4.64	(3.81)	225.10	
	KORBA - III	500						40.17				6.00	3.89	0.12	0.04	10.05	
	VSTPS - I	1,260						240.30				15.54	39.57	0.74	6.11	61.96	
	VSTPS - II	1,000						90.74				5.64	14.17	0.26	3.07	23.14	
	VSTPS -III	1,000						78.08				8.38	12.05	0.26	2.18	22.87	
	VSTPS-IV	1,000						89.38				12.20	13.91	0.25	(0.46)	25.90	
	KGPP	656						46.24				7.02	12.95		0.03	20.00	
	GGPP	657						49.57				9.14	13.21		0.01	22.36	
	SIPAT- I	1,980						169.39				23.18	24.06	0.43	0.08	47.75	
	RSTPS	2,100						690.49				41.98	165.49	0.27	0.37	208.11	
	SIPAT- II	1,000						77.82				10.16	11.03	0.23	1.52	22.94	
	Mouda	1,020						106.81				16.92	36.97		(0.75)	53.14	
	Less: Additional rebate														(0.31)	(0.31)	
II	RGPPL												7.55			7.55	
III	NPCIL	-	-					205			-	-	48.14	-	-	48.14	
	Tarapur, Thane							99					22.74			22.74	
	Kakorapur, Surat							105					25.40			25.40	
IV	Traders							154.70					54.95	-	-	54.95	
	NVVNSTOA							56.32					19.88			19.88	
	Power Trading Company STOA							44.01					16.45			16.45	
	Tata Power Trading Company							8.49					2.82			2.82	
	Adani Enterprises							45.88					15.80			15.80	
V	OVER DRAWAL							100.03					51.21			51.21	
B	Within State Generations																
I	CO- GENERATION							158.44			-	-	38.09	-	-	38.09	
	Goa Energy Private Limited							124.26					29.89			29.89	
	Goa Sponge & Power Limited							6.68					1.60			1.60	
	Sesa Goa							27.50					6.60			6.60	
C	IPP:							(21.40)					(2.76)	-	-	(2.76)	
	Reliance Infra							(21.40)					(2.76)			(2.76)	
D	OTHER CHARGES																
	PGCIL Transmission Charges, Wheeling & Other Charges													136.70		136.70	
E	Renewable Energy Obligation							4.75					16.73	-	-	16.73	
	REC Certificates (Non-Solar)															-	
	NVVN Solar							4.75					16.73			16.73	
	Total							3,733.94					237.56	704.08	143.90	8.08	1,093.61

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST YEAR 2015-16 H1 (Actuals - April 2015 to September 2015)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplement ary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
A	Central Sector Power Stations																
I	NTPC	14,254		465.60													
	KSTPS	2100	10.09%	211.93				795.93	3.62%	767.12	104.28	38.39	83.00	7.92	(10.39)	118.92	
	KSTPS - III	500	1.29%	6.45				21.25	3.62%	20.48	103.18	3.26	2.19	0.15	(0.88)	4.72	
	VSTPS - I	1260	2.91%	36.72				125.71	3.62%	121.16	153.76	8.20	19.33	0.87	0.78	29.18	
	VSTPS - II	1000	1.33%	13.30				46.45	3.62%	44.77	150.28	3.09	6.98	0.32	0.30	10.69	
	VSTPS -III	1000	1.13%	11.30				46.75	3.62%	45.06	145.81	4.80	6.82	0.34	0.24	12.20	
	VSTPS-IV	1000	1.30%	13.02				61.43	3.62%	59.20	147.79	7.98	9.08	0.95	3.27	21.28	
	SIPAT- I	1980	1.19%	23.61				92.85	3.62%	89.49	132.92	13.07	12.34	0.61	(1.00)	25.01	
	RSTPS	2100	4.76%	100.00				372.88	8.50%	341.18	248.32	20.19	92.59	0.83	(3.02)	110.58	
	SIPAT- II	1000	1.12%	11.24				45.68	3.62%	44.03	134.67	5.47	6.15	0.30	(0.21)	11.71	
	Mouda	1000	1.30%	13.02				6.79	3.62%	6.54	335.12	9.83	2.27	-	5.04	17.15	
	KGPP	656	1.89%	12.38				1.45	3.62%	1.40	184.71	3.32	0.27	-	(0.43)	3.16	
	GGPP	657	1.92%	12.64					3.62%	-	-	-	-	-	-	-	
	JGPS							1.89	3.62%	1.82		4.26	0.35	0.03	(0.69)	3.95	
	KhSTPS 1									-					(0.00)	(0.00)	
	TSTPS														(0.00)	(0.00)	
	KhSTPS 2														0.00	0.00	
	Less : Rebate additional															(0.43)	
																-	
II	RGPPPL										-	-	-	-	-	-	
III	NPCIL	1,520		28.13				92.53	3.62%	89.18			25.55			25.55	
	KAPS Unit 1 and 2	440	3.53%	15.52				37.37	3.62%	36.02	246.14		9.20			9.20	
	TAPS Unit 3 and 4	1,080	1.17%	12.60				55.16	3.62%	53.16	296.45		16.35			16.35	
																-	
IV	Traders							90.60		87.32	369.09		33.44			33.44	
	Power Trading Company STOA							27.30	3.62%	26.32	375.00		10.24			10.24	
	Adani Enterprises							28.79	3.62%	27.75	364.00		10.48			10.48	
	Net IEX purchase and sales							34.51	3.62%	33.26	368.65		12.72			12.72	
																-	
V	NET OVER-DRAWAL							87.11	3.62%	83.96	348.39		30.35			30.35	
B	Within State Generations																
I	CO- GENERATION							104.09		104.09	240.30		25.01			25.01	
	Goa Energy Private Limited							53.76		53.76	241.11		12.96			12.96	
	Goa Sponge & Power Limited							2.36		2.36	240.00		0.57			0.57	
	Sesa Goa Limited							47.97		47.97	239.41		11.48			11.48	
C	REC Certificate																
D	RPO Obligation							7.57		7.29	723.00		5.47			5.47	
	Non Solar Power (Hydro)							1.97	3.62%	1.90	449.00		0.88			0.88	
	NVVN Solar (power) -(pertains to backlog of Solar FY11 to FY15)							5.60	3.62%	5.40	-		4.59			4.59	
																-	
E	OTHER CHARGES														82.43	82.43	
	PGCIL Transmission Charges, Wheeling, Oen Access & Trading Marrgin & Other Charges														82.43	82.43	
F	Total	15,774		494				2,001	4.34%	1,914	1,680.78	121.85	361.20	94.75	(6.98)	570.39	

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST YEAR 2015-16 H2 (Actuals - October 2015 to March 2016)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplement ary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5		6	7	8	9	10	11	12	13	14	15	16	17	18
A	Central Sector Power Stations																
I	NTPC	13,254		441.64	-	-	-	-	1,643.99		1,565.25		118.25	232.17	13.45	(16.59)	347.03
	KSTPS	2100	10.09%	211.93					783.20	3.62%	754.85	106.76	38.06	83.61	7.69	(5.26)	124.10
	VSTPS - I	1260	2.91%	36.72					130.66	3.62%	125.93	147.94	7.85	19.33	0.95	(0.30)	27.83
	VSTPS - II	1000	1.33%	13.30					52.86	3.62%	50.95	148.93	3.00	7.87	0.39	(0.40)	10.86
	VSTPS -III	1000	1.13%	11.30					46.25	3.62%	44.57	141.09	4.32	6.52	0.33	(0.33)	10.85
	VSTPS-IV	1000	1.30%	13.02					50.82	3.62%	48.98	148.64	7.06	7.55	0.08	0.09	14.79
	VSTPS-V	500	1.22%	6.09					17.92	3.62%	17.27	144.08	2.22	2.58	0.10	0.03	4.93
	KGPP	656	1.89%	12.38					0.67	3.62%	0.65	273.40	3.32	0.18	-	(0.18)	3.32
	GGPP	657	1.92%	12.64					0.72	3.62%	0.69	268.30	4.25	0.19	-	(0.05)	4.40
	SIPAT- I	1980							91.69	3.62%	88.37	111.96	11.29	10.27	0.56	(1.67)	20.45
	KSTPS-III								22.51	3.62%	21.70	104.98	3.02	2.36	0.23	(0.14)	5.47
	RSTPS	2100	4.76%	100.00					394.03	8.50%	360.54	215.63	20.24	84.97	2.42	(7.21)	100.42
	SIPAT- II	1000	1.12%	11.24					48.59	3.62%	46.83	115.07	4.93	5.59	0.71	(0.89)	10.34
	Mouda	1000	1.30%	13.02					4.07	3.62%	3.92	277.23	8.68	1.13	-	(0.29)	9.51
	Add/ Less: Other Adjustments									3.62%	-						(0.25)
III	NPCIL								75.87		73.12		-	20.69	-	-	20.69
	KAPS	440	3.53%	15.52					26.59	3.62%	25.62	241.36		6.42			6.42
	TAPS	1,080	1.17%	12.60					49.28	3.62%	47.49	289.60		14.27			14.27
III	Traders								88.08		84.89	351.06		30.92	-	-	30.92
	IEX PURCHASEAND SALES								88.08	3.62%	84.89	351.06		30.92			30.92
V	OVER/ UNDER DRAWAL								79.28	5.00%	75.31	252.77		20.04			20.04
B	Within State Generations																
I	CO- GENERATION	-		-	-	-	-	-	98.34		98.34		-	23.64	-	-	23.64
	Vedanta Plant-1								48.69		48.69	240.82		11.73			11.73
	Vedanta Plant -2								46.80		46.80	239.90		11.23			11.23
	Goa Sponge and project limited								2.85		2.85			0.68			0.68
C	Banking Provisions								14.30	3.62%	13.79						-
D	RPO Obligations								39.99		38.54			22.78	-	-	22.78
	NVVNL Solar								6.15	3.62%	5.93	848.58		5.22			5.22
	SECI Solar								23.18	3.62%	22.34	550.86		12.77			12.77
	NVVNL Hydro Non Solar								10.65	3.62%	10.27	449.00		4.78			4.78
E	REC Certificates																
	Solar													27.40			27.40
	Non Solar													15.90			15.90
														11.50			11.50
F	OTHER CHARGES	-		-	-	-	-	-									
	PGCIL Transmission Charges, Wheeling & Other Charges													78.97			78.97
F	Total	13,254		442					2,039.85		1,949.24	603.82	118.25	456.59	13.45	(16.59)	571.46

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST YEAR 2015-16 Actual - April 2015 to March 2016)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplementary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5		6	7	8	9	10	11	12	13	14	15	16	17	18
A	Central Sector Power Stations																
I	NTPC	13,254		317.38	-	-	-	-	3,263.03		3,107.48		240.10	473.55	25.76	(23.57)	715.16
	KSTPS	2100	10.09%	211.93					1,579.13	3.62%	1,521.96	105.51	76.45	166.62	15.61	(15.65)	243.03
	VSTPS - I	1260	2.91%	36.72					256.37	3.62%	247.09	150.79	16.05	38.66	1.82	0.48	57.01
	VSTPS - II	1000	1.33%	13.30					99.31	3.62%	95.72	149.56	6.09	14.85	0.71	(0.10)	21.55
	VSTPS-III	1000	1.13%	11.30					93.00	3.62%	89.63	143.47	9.13	13.34	0.67	(0.08)	23.05
	VSTPS-IV	1000	1.30%	13.02					112.25	3.62%	108.19	148.17	15.04	16.63	1.03	3.37	36.07
	VSTPS-V	500	1.22%	6.09					17.92	3.62%	17.27	144.08	2.22	2.58	0.10	0.03	4.93
	KGPP	656	1.89%	12.38					2.12	3.62%	2.05	212.81	6.64	0.45	-	(0.62)	6.48
	GGPP	657	1.92%	12.64					0.72	3.62%	0.69	268.30	4.25	0.19	-	(0.05)	4.40
	SIPAT- I	1980							184.54	3.62%	177.86	122.51	24.36	22.61	1.16	(2.67)	45.46
	KSTPS-III								43.76	3.62%	42.17	104.11	6.28	4.56	0.38	(1.02)	10.19
	TSTPS								-		-	-	-	-	-	(0.00)	(0.00)
	KHSTPS-I								-		-	-	-	-	-	(0.00)	(0.00)
	RSTPS	2100	4.76%						766.91	8.50%	701.72	231.53	40.43	177.56	3.24	(10.23)	211.00
	SIPAT- II	1000	1.12%						94.27	3.62%	90.86	124.57	10.40	11.74	1.01	(1.10)	22.05
	Mouda	1000	1.30%						10.85	3.62%	10.46	313.43	18.51	3.40	-	4.75	26.66
	JGPS								1.89	3.62%	1.82		4.26	0.35	0.03	(0.69)	3.95
	Add/ Less: Other Adjustments								-		-		-	-	-	-	(0.25)
	Less : Rebate additional																(0.43)
III	NPCIL								168.40	3.62%	162.30			46.24			46.24
	KAPS	440	3.53%						63.96	3.62%	61.65	244.15	-	15.62	-	-	15.62
	TAPS	1,080	1.17%						104.43	3.62%	100.65	293.22	-	30.62	-	-	30.62
IV	Traders								178.69	3.62%	172.22	360.20		64.36			64.36
	IEX PURCHASEAND SALES								122.59	3.62%	118.15	356.01	-	43.64	-	-	43.64
	Power Trading Company STO								27.30	3.62%	26.32	375.00	-	10.24	-	-	10.24
	Adani Enterprises								28.79	3.62%	27.75	364.00	-	10.48	-	-	10.48
V	OVER/ UNDER DRAWAL								166.39	5.00%	159.27	302.83		50.39			50.39
B	Within State Generations																
I	CO- GENERATION								202.43		202.43	1,201.23		48.65			48.65
	Vedanta Plant-1								48.69	0.00%	48.69	240.82	-	11.73	-	-	11.73
	Vedanta Plant -2								46.80	0.00%	46.80	239.90	-	11.23	-	-	11.23
	Goa Sponge and project limited								5.21	0.00%	5.21	240.00	-	1.25	-	-	1.25
	Goa Energy Private Limited								53.76	0.00%	53.76	241.11	-	12.96	-	-	12.96
	Sesa Goa Limited								47.97	0.00%	47.97	239.41	-	11.48	-	-	11.48
C	RPO Obligations								47.56	3.62%	45.84			28.25			28.25
	NVNL Solar								11.75	3.62%	11.33	519.37	-	6.10	-	-	6.10
	SECI Solar								23.18	3.62%	22.34	550.86	-	12.77	-	-	12.77
	NVNL Hydro Non Solar								12.62	3.62%	12.17	742.55	-	9.37	-	-	9.37
D	Banking								14.30	3.62%	13.79						
E	REC Certificates													27.40			27.40
	Solar													15.90			15.90
	Non Solar													11.50			11.50
F	OTHER CHARGES													78.97			161.40
	PGCIL Transmission Charges, Wheeling & Other Charges													78.97	82.43		161.40
	Total								4,040.79		3,863.32	1,864.27	240.10	817.80	108.19	(23.57)	1,141.84

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST
YEAR 2016-17 H1 (Actuals - April 2016 to September 2016)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplementary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5		6	7	8	9	10	11	12	13	14	15	16	17	18
A	Central Sector Power Stations																
I	NTPC	13,254		428.62	-	-	-	-	1,669.84		1,583.95		116.39	277.91	13.10	(0.47)	406.22
	KSTPS	2100	10%	211.93					801.72	2.70%	780.07	147.10	37.77	117.93	9.22	(1.82)	163.10
	VSTPS - I	1260	3%	36.72					129.79	2.70%	126.29	175.32	7.73	22.75	0.91	0.81	32.20
	VSTPS - II	1000	1%	13.30					38.87	2.70%	37.82	169.40	2.66	6.58	0.27	0.35	9.86
	VSTPS -III	1000	1%	11.30					44.67	2.70%	43.46	166.63	4.22	7.44	0.32	2.29	14.28
	VSTPS-IV	1000	1%	13.02					52.23	2.70%	50.82	168.30	6.80	8.79	0.36	(0.05)	15.89
	VSTPS-V	500	1%	6.09					24.68	2.70%	24.02	165.22	3.07	4.08	0.19	0.22	7.56
	KGPP	656	2%	12.38					12.92	2.70%	12.57	226.47	3.28	2.93	-	(0.11)	6.09
	GGPP	657	2%	12.64					28.29	2.70%	27.53	220.00	4.19	6.22	-	(0.22)	10.20
	SIPAT- I	1980							90.35	2.70%	87.91	128.41	11.07	11.60	0.99	1.01	24.68
	KSTPS-III								22.37	2.70%	21.77	145.83	2.83	3.26	0.35	0.49	6.94
	RSTPS	2100	5%	100.00					367.59	13.80%	316.86	209.97	19.48	77.18	-	(4.66)	92.01
	SIPAT- II	1000	1%	11.24					43.04	2.70%	41.88	131.70	4.83	5.67	0.49	1.77	12.76
	Mouda	1000	1%	13.02					13.31	2.70%	12.95	260.54	8.44	3.47	-	(0.54)	11.37
	Add/ Less: Other Adjustments											-					(0.72)
												-					
III	NPICL								52.87		51.45	307.15		16.52	-	-	16.52
	KAPS	440	4%	15.52					-	2.70%	-	-	-	0.28			0.28
	TAPS	1,080	1%	12.60					52.87	2.70%	51.45	307.15		16.24			16.24
III	Traders								110.07		107.10		-	33.47	-	-	33.47
	a) IEX PURCHASE AND SALES								69.88	2.70%	68.00	304.49		21.28			21.28
	b) Traders								40.19	2.70%	39.10	303.46		12.20			12.20
V	OVER/ UNDER DRAWAL								126.85	3.23%	122.75	247.84		31.44			31.44
VI	Banking								(14.35)	2.70%	(13.96)						-
B	Within State Generations																
I	CO- GENERATION	-	-	-	-	-	-	-	86.42		86.42		-	20.71	-	-	20.71
	Vedanta Plant-1								51.29		51.29	239.87		12.30			12.30
	Vedanta Plant-2								32.05		32.05	239.34		7.67			7.67
	Goa Sponge and private limited								3.08		3.08	239.77		0.74			0.74
C	RPO Obligations								30.63		29.80			19.91	-	-	19.91
	NVVNL Solar								5.64	2.70%	5.49	854.59		4.82			4.82
	SECI Solar								24.98	2.70%	24.31	604.02		15.09			15.09
	NVVNL Hydro (Non Solar)								-		-	-		-			-
E	OTHER CHARGES	-	-	-	-	-	-	-					-	99.63			99.63
	PGCIL Transmission Charges, Wheeling & Other Charges													99.63			99.63
F	Total								2,062.33		1,967.50		116.39	499.60	13.10	(0.47)	627.91

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST
YEAR 2016-17 HZ (Projections - October 2016 to March 2017)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	Licensee share (%)	AFC (Rs. Crore)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplementary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5		6	7	8	9	10	11	12	13	14	15	16	17	18
A	Central Sector Power Stations																
I	NTPC	14,754		459					1,614		1,553		116	273	-	-	390
	KSTPS	2,100	10.03%	210.55		89.80%	8.50%	1,002.79	757.72	2.70%	737.26	147.10	37.77	111.46			149.23
	VSTPS - I	1,260	2.82%	35.49		89.86%	5.25%	780.65	132.37	2.70%	128.80	175.32	7.73	23.21			30.94
	VSTPS - II	1,000	1.24%	12.37		89.28%	5.25%	481.47	45.85	2.70%	44.61	169.40	2.66	7.77			10.43
	VSTPS -III	1,000	1.04%	10.37		89.79%	5.25%	761.32	38.66	2.70%	37.61	166.63	4.22	6.44			10.66
	VSTPS-IV	1,000	1.17%	11.72		93.59%	9.00%	1,159.95	43.73	2.70%	42.55	168.30	6.80	7.36			14.16
	VSTPS-V	500	1.09%	5.44		88.65%	9.00%	-	19.23	2.70%	18.71	165.22	3.07	3.18			6.25
	KGPP	656	1.89%	12.37		62.55%	3.00%	442.87	12.92	2.70%	12.57	226.47	3.28	2.93			6.21
	GGPP	657	1.92%	12.63		64.18%	3.00%	567.57	28.29	2.70%	27.53	220.00	4.19	6.22			10.41
	SIPAT- I	1,980	1.06%	21.04		86.44%	5.25%	1,915.27	75.46	2.70%	73.43	128.41	11.07	9.69			20.76
	KSTPS-III	500	0.95%	4.76		90%	9%	543.99	17.08	2.70%	16.62	145.83	2.83	2.49			5.32
	RSTPS	2,100	4.76%	100.00		90%	9%	1,022.90	360.86	7.50%	333.80	209.97	19.48	75.77			95.26
	SIPAT- II	1,000	1.04%	10.36		86%	5%	914.24	37.14	2.70%	36.14	131.70	4.83	4.89			9.72
	Mouda	1,000	1.17%	11.72		96%	9%	1,361.71	45.07	2.70%	43.85	260.54	8.44	11.74			20.18
III	NPICL	1,520		27					96		94	551	-	26	-	-	26
	KAPS	440	3.45%	15.19		95%	10%	-	57.01	2.70%	55.47	244.15	-	13.92			13.92
	TAPS	1,080	1.06%	11.46		87.09%	10%	-	39.34	2.70%	38.28	307.15	-	12.08			12.08
																	-
III	Traders	-		-					86.04		84	297.54	-	26	-	-	26
	a) IEX PURCHASE AND SALES								80.70	2.70%	78.52	298.13		24.06			24.06
	b) Traders								5.34	2.70%	5.20	288.60		1.54			1.54
																	-
V	OVER/ UNDER DRAWAL																
VI	Banking																
B	Within State Generations																
I	CO- GENERATION	-		-					86	-	86	719	-	21	-	-	21
	Vedanta Plant-1								51.29		51.29	239.87		12.30			12.30
	Vedanta Plant -2								32.05		32.05	239.34		7.67			7.67
	Goa Sponge and private limited								3.08		3.08	239.77		0.74			0.74
C	RPO Obligations	-	-	-	-	-	-	-	137	0	133	1,908	-	68	-	-	68
	NVVNL Solar								5.64	2.70%	5.49	854.59		4.82			4.82
	SECI Solar								24.98	2.70%	24.31	604.02		15.09			15.09
	NVVNL Hydro (Non Solar)								106.00	2.70%	103.14	449.00		47.59			47.59
D	OTHER CHARGES	-	-	-	-	-	-	-	-	-	-	-	-	92	-	-	92
	PGCIL Transmission Charges, Wheeling & Other Charges													92.49			92.49
																	-
F	Total								2,020		1,950		116	505	-	-	622

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST
YEAR 2016-17 (Estimated - April 2016 to March 2017)

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplement ary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5		6	7	8	9	10	11	12	13	14	15	16	17	18
A	Central Sector Power Stations																
I	NTPC	14,754		459					3,284	4.47%	3,137		233	551	13	(0)	795.75
	KSTPS	2,100	10%	210.55		90%	9%	1,002.79	1,559.44	2.70%	1,517.33	147.10	75.54	229.39	9.22	(1.82)	312.33
	VSTPS - I	1,260	3%	35.49		90%	5%	780.65	262.16	2.70%	255.09	175.32	15.46	45.96	0.91	0.81	63.14
	VSTPS - II	1,000	1%	12.37		89%	5%	481.47	84.72	2.70%	82.43	169.40	5.32	14.35	0.27	0.35	20.29
	VSTPS -III	1,000	1%	10.37		90%	5%	761.32	83.33	2.70%	81.08	166.63	8.44	13.88	0.32	2.29	24.94
	VSTPS-IV	1,000	1%	11.72		94%	9%	1,159.95	95.96	2.70%	93.37	168.30	13.59	16.15	0.36	(0.05)	30.05
	VSTPS-V	500	1%	5.44		89%	9%	-	43.91	2.70%	42.73	165.22	6.14	7.26	0.19	0.22	13.81
	KGPP	656	2%	12.37		63%	3%	442.87	25.84	2.70%	25.14	226.47	6.56	5.85	-	(0.11)	12.30
	GGPP	657	2%	12.63		64%	3%	567.57	56.58	2.70%	55.06	220.00	8.38	12.45	-	(0.22)	20.61
	SIPAT- I	1,980	1%	21.04		86%	5%	1,915.27	165.81	2.70%	161.34	128.41	22.15	21.29	0.99	1.01	45.44
	KSTPS-III	500	1%	4.76		90%	9%	543.99	39.45	2.70%	38.39	145.83	5.66	5.75	0.35	0.49	12.26
	RSTPS	2,100	5%	100.00		90%	9%	1,022.90	728.45	10.68%	650.66	209.97	38.97	152.96	-	(4.66)	187.26
	SIPAT- II	1,000	1%	10.36		86%	5%	914.24	80.19	2.70%	78.02	131.70	9.66	10.56	0.49	1.77	22.48
	Mouda	1,000	1%	11.72		96%	9%	1,361.71	58.38	2.70%	56.80	260.54	16.88	15.21	-	(0.54)	31.55
	Add/ Less: Other Adjustments																(0.72)
III	NPCL	1,520		27					149	2.70%	145	284.98	-	43	-	-	42.53
	KAPS	440	3%	15.19					57.01	2.70%	55.47	249.12	-	14.20	-	-	14.20
	TAPS	1,080	1%	11.46					92.22	2.70%	89.73	307.15	-	28.32	-	-	28.32
																	-
III	Traders								196	2.70%	191	301.23	-	59	-	-	59.07
	a) IEX PURCHASE AND SALES								150.58	2.70%	146.52	301.08	-	45.34	-	-	45.34
	b) Traders								45.53	2.70%	44.30	301.72	-	13.74	-	-	13.74
V	OVER/ UNDER DRAWAL								126.85	3.23%	122.75	247.84	-	31.44	-	-	31.44
VI	Banking								(14.35)	2.70%	(13.96)						-
B	Within State Generations																
I	CO- GENERATION								173	0.00%	173	239.67	-	41.42	-	-	41.42
	Vedanta Plant-1								102.57	0.00%	102.57	239.87	-	24.60	-	-	24.60
	Vedanta Plant -2								64.10	0.00%	64.10	239.34	-	15.34	-	-	15.34
	Goa Sponge and private limited								6.16	0.00%	6.16	239.77	-	1.48	-	-	1.48
C	RPO Obligations								167	2.70%	163	522.68	-	87	-	-	87.42
	NVVNL Solar								11.29	2.70%	10.98	854.59	-	9.65	-	-	9.65
	SECI Solar								49.96	2.70%	48.61	604.02	-	30.18	-	-	30.18
	NVVNL Hydro (Non Solar)								106.00	2.70%	103.14	449.00	-	47.59	-	-	47.59
E	OTHER CHARGES								-	-	-	-	-	192.12	-	-	192.12
	PGCIL Transmission Charges, Wheeling & Other Charges								-	-	-	-	-	192.12	-	-	192.12
																	-
F	Total								4,082		3,918		233	1,005	13	(0)	1,249.75

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
POWER PURCHASE COST
YEAR 2017-18 (April 2017 to March 2018) - Projections approved in B.P. Order

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplement ary (Rs. Crore)	Total (Rs.Crore)
			%	MW													
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
A	Central Sector Power Stations																
I	NTPC							3,546.61	4%	3,389.74	-	315.03	585.52	-	-	900.55	
	KSTPS-III							37.66	4%	36.28		7.35	3.83			11.18	
	KSTPS							1,483.17	4%	1,428.95		99.54	153.21			252.75	
	SIPAT-1							160.38	4%	154.51		27.97	17.19			45.16	
	SIPAT - II							76.33	4%	73.54		13.46	8.42			21.88	
	VSTPS -III							78.98	4%	76.10		11.31	11.22			22.53	
	VSTPS-IV							87.96	4%	84.75		16.26	12.79			29.05	
	VSTPS-V							37.92	4%	36.54		6.23	5.54			11.77	
	VSTPS - II							93.58	4%	90.16		7.85	13.72			21.57	
	VSTPS - 1							258.32	4%	248.88		21.13	38.03			59.16	
	RSTPS							708.25	8%	655.13		59.21	158.03			217.24	
	Mouda							100.10	4%	96.44		22.95	24.80			47.75	
	Mouda II							101.65	4%	97.93			30.90			30.90	
	GGPP							41.39	4%	39.88		12.25	12.72			24.97	
	KGPP							40.15	4%	38.68		9.52	12.62			22.14	
	Lara I & II							155.84	4%	150.15			50.96			50.96	
	Gadarwara I							57.60	4%	55.49			20.91			20.91	
	Solapur							27.33	4%	26.33			10.63			10.63	
																-	
II	NPCIL							188.20	0%	188.20	-	-	48.59	-	-	48.59	
	Tarapur, Thane							81.24	0%	81.24			23.20			23.20	
	Kakorapur, Surat							106.96	0%	106.96			25.39			25.39	
																-	
III	New Hydro Station							11.03	0%	11.03	-	-	4.41	-	-	4.41	
	Kameng HEP							11.03		11.03			4.41			4.41	
																-	
IV	Others							167.24		167.24	-	-	40.13	-	-	40.13	
	M/s GEPL Amona							107.52	0%	107.52			25.80			25.80	
	M/s GSPL, Santona Sanguem							4.72	0%	4.72			1.13			1.13	
	Sesa Goa Limited							55.00	0%	55.00			13.20			13.20	
																-	
C	OTHER CHARGES																291.46
	PGCIL Transmission Charges, Wheeling & Other Charges																288.00
	Others																
	KPTCL Wheeling Charges																1.80
	Fees and charges of SLDC - WR																0.49
	Fees and charges of SLDC - SR																0.41
	SCADA & Reactive charges																0.75
																	-
D	RPO							85.26	4%	82.14		-	45.83	-	-	45.83	
	Solar RPO																-
	NVVN Solar							9.79	4%	9.43			7.82			7.82	
	Solar Energy Corp. of India							40.78	4%	39.29			22.43			22.43	
	Non Solar RPO																-
	NVVNL Hydro							34.69	4%	33.42			15.58			15.58	
																	-
E	Total							3,998.34		3,838.35		315.03	724.48	-	-	1,330.97	

Information regarding Renewable Power Purchase Obligation

Name of State/UT: Goa

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

S.No	Description	Unit	Previous Year						Current Year (Rev.Est)	Ensuing Year (Projections)	
			FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	
1	Sales Within State	MUs	2,544	2,880	2,925	2,962	3,114	3,160	3,443.85	3,494.37	
2	RPO Obligation	%	1.00%	2.00%	3.00%	3.00%	3.30%	3.55%	4.85%	6.70%	
	- Solar	%	0.25%	0.30%	0.40%	0.40%	0.60%	0.85%	1.65%	2.50%	
	- Non Solar	%	0.75%	1.70%	2.60%	2.60%	2.70%	2.70%	3.20%	4.20%	
3	RPO Obligation	MUs	25.44	57.60	87.76	88.85	102.77	112.19	167.03	234.12	
	- Solar	MUs	6.36	8.64	11.70	11.85	18.69	26.86	56.82	87.36	
	- Non Solar	MUs	19.08	48.96	76.06	77.01	84.08	85.33	110.20	146.76	
4	RPO Purchase / REC	MUs									
	- Solar	MUs					6.31	78.78	61.25		
	- Non Solar	MUs		128.14	71.80	29.20	158.44	87.98	106.00		
5	Cumulative RPO Obligation										
	- Solar	MUs	6.36	15.00	26.70	38.55	50.92	(0.99)	(5.42)		
	- Non Solar	MUs	19.08	-	4.25	52.06	-	-	4.20		
6	Floor Price of REC Certificates /MWH										
	- Solar	Rs./MWH	1500								
	- Non Solar	Rs./MWH	3500								
7	Amount for RPO Compliance										
	- Solar	Rs. Crs									
	- Non Solar	Rs. Crs									
8	Total (Rs Crores)	Rs. Crs							0.00	0.00	0.00

Format 5

**Name of State/UT: Goa
Investment Plan**

Project Details							
Name of scheme	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	Total Capex
						Revised	
1	4	5	6	7	8	9	
Scheduled castes development scheme(P)					-	0.10	0.10
Schedule Tribe Development Scheme (P)	30.03	17.50	16.62	29.62	20.22	30.00	143.99
Machinery and Equipments (Plan) Motor Vehicles	0.01		0.83		-		0.84
Infrastructure development through Electricity Duty (Plan)	44.22	35.25	32.28	25.30	23.91	90.00	250.96
Erection and Augmentation of 33/11 KV S/S line (Plan)	6.85	0.51	3.42	2.72	1.11	2.00	16.61
Normal Development Schemes (Plan)	14.18	21.81	10.86	9.38	9.51	18.00	83.74
System Improvement Schemes (Plan)	3.09	2.27	2.84	3.37	2.32	4.50	18.39
Construction of staff quarters and office buildings (Plan)	1.03	0.08	0.84	1.05	1.11	2.00	6.11
Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim	2.00	1.32	2.40	2.00	8.61	4.00	20.33
Erection of 220 KV line from Xeldem to Cuncolim	0.25	0.13	0.47	4.00	5.00	1.00	10.85
Erection of 220/33 KV 1x50 MVA Sub-Station at Amona	12.61	0.01					12.62
Strengthening of 220 KV Transmission Network	2.92	0.74	4.37	9.85	1.36	1.80	21.04
Erection of 220/33KV, 1x50 MVA Sub-Station Xeldem	-		0.14		-		0.14
Accelerated Power Development Reforms Programme	0.45		0.06		0.02		0.53
Augmentation of Kadamba 2/S from 2x40 MVA to 4x40 MVA including new 110 KV line	1.63	0.21					1.84
Erection of 2nd 100 MVA transformer at Xeldem 220/110 KV S/S	0.30				0.28		0.58
Erection of 220/110/33/11 KV Sub-Station at Verna (New)	0.05				-		0.05
APDRP(State Schemes)	33.00	12.00	16.57	13.01	1.58		76.16
Restructured Accelerated Power Development and Reforms Programme Part A	7.79	5.31	4.57	2.16	16.76	100.00	136.59
Research training and human research development		0.06	0.05	0.07	-		0.18
Underground Cabling			6.73	12.90	4.34	20.00	43.97
Public Lighting Scheme			0.03	0.68	0.51	1.50	2.72
R-APDRP Part B / IPDS					7.29	52.07	59.36
EHV new Transmission / Sub-Station / Capacitor banks schemes					30.96	40.00	70.96
Other works capitalised (Meter, street light replacement)							-
Total	160.41	97.20	103.08	116.11	134.89	366.97	978.66

Format 5

**Name of State/UT: Goa
Investment Plan**

Project Details Name of scheme	CAPITALISATION						Total Capitalisation
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	
1	10	11	12	13	14	15	
Scheduled castes development scheme(P)							-
Schedule Tribe Development Scheme (P)	7.89	12.01	20.00	10.00	53.60	27.00	130.50
Machinery and Equipments (Plan) Motor Vehicles	-	-	0.83				0.83
Infrastructure development through Electricity Duty (Plan)	16.64	28.52	35.00	35.00	35.00	75.00	225.16
Erection and Augmentation of 33/11 KV S/S line (Plan)	0.09	12.75		7.50	1.11	2.00	23.45
Normal Development Schemes (Plan)	22.94	38.30	10.86	10.96	9.51	18.00	110.57
System Improvement Schemes (Plan)	2.32	2.38	2.84	2.37	2.32	4.50	16.73
Construction of staff quarters and office buildings (Plan)	0.35	-	0.57	1.05	1.11	2.00	5.08
Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim		-	57.74	2.00	8.61	4.00	72.35
Erection of 220 KV line from Xeldem to Cuncolim	-	-	5.87	4.00	5.00	1.00	15.87
Erection of 220/33 KV 1x50 MVA Sub-Station at Amona	3.80	-					3.80
Strengthening of 220 KV Transmission Network	10.02	-	4.05	9.85	1.36	1.80	27.08
Erection of 220/33KV, 1x50 MVA Sub-Station Xeldem		-	0.14				0.14
Accelerated Power Development Reforms Programme	-	-	0.06		0.02		0.08
Augmentation of Kadamba 2/S from 2x40 MVA to 4x40 MVA including new 110 KV line	11.41	-					11.41
Erection of 2nd 100 MVA transformer at Xeldem 220/110 KV S/S	-	-			0.28		0.28
Erection of 220/110/33/11 KV Sub-Station at Verna (New)	-	-					-
APDRP(State Schemes)	18.96	19.85	16.57	13.01	1.58		69.97
Restructured Accelerated Power Development and Reforms Programme Part A	-	6.43			16.76	100.00	123.19
Research training and human research development	-	-					-
Underground Cabling	-	-		19.63	4.34	20.00	43.97
Public Lighting Scheme	-	-		0.68	0.51	1.50	2.69
R-APDRP Part B / IPDS	-	-				25.00	25.00
EHV new Transmission / Sub-Station / Capacitor banks schemes	-	-			30.96	31.42	62.38
Other works capitalised (Meter, street light replacement)	6.98	5.61					12.59
Total	101.40	125.85	154.53	116.05	172.07	313.22	983.12

Format 5

**Name of State/UT: Goa
Investment Plan**

Project Details	SOURCE OF FINANCING for Capex Scheme				
Name of scheme	Equity component		Capital Subsidies / grants	Loan	Consumer Contribution component
	Electricity Duty Fund	Equity infusion - EDG/GoG			
1	16	17	18	19	20
Scheduled castes development scheme(P)					
Schedule Tribe Development Scheme (P)					
Machinery and Equipments (Plan) Motor Vehicles					
Infrastructure development through Electricity Duty (Plan)					
Erection and Augmentation of 33/11 KV S/S line (Plan)					
Normal Development Schemes (Plan)					
System Improvement Schemes (Plan)					
Construction of staff quarters and office buildings (Plan)					
Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim					
Erection of 220 KV line from Xeldem to Cuncolim					
Erection of 220/33 KV 1x50 MVA Sub-Station at Amona					
Strengthening of 220 KV Transmission Network					
Erection of 220/33KV, 1x50 MVA Sub-Station Xeldem					
Accelerated Power Development Reforms Programme					
Augmentation of Kadamba 2/S from 2x40 MVA to 4x40 MVA including new 110 KV line					
Erection of 2nd 100 MVA transformer at Xeldem 220/110 KV S/S					
Erection of 220/110/33/11 KV Sub-Station at Verna (New)					
APDRP(State Schemes)					
Restructured Accelerated Power Development and Reforms Programme Part A					
Research training and human research development					
Underground Cabling					
Public Lighting Scheme					
R-APDRP Part B / IPDS					
EHV new Transmission / Sub-Station / Capacitor banks schemes					
Other works capitalised (Meter, street light replacement)					
Total	-	-	-	-	-

Format-6

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Capital Base and Return

(Rs. Crore)

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
1	2	3	4	5	6	7
1	Gross block at beginning of the year	595.50	693.69	816.84	1,008.28	1,190.91
2	Opening CWIP	-	-	-	-	-
3	Less accumulated depreciation	155.09	184.63	217.42	233.42	259.29
4	Less Opening Debt	-	-	-	-	-
4	Net block at beginning of the year	440.41	509.06	599.43	774.87	931.63
5	Less accumulated consumer contribution	-	-	-	-	-
6	Net fixed assets at beginning of the year	440.41	509.06	599.43	774.87	931.63
7	Reasonable return @3% of NFA	13.21	15.27	5.86	11.12	27.95

Sr. No.	Particulars	Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2015-16	FY 2016-17	FY 2017-18
1	Opening Equity Amount	304	342	293
2	Equity Addition during year (30% of Capitalization)	38	49	201
3	Closing Equity Amount	342	391	493
4	Average Equity Amount	323	366	393
5	Rate of Return on Equity	16%	16%	-
6	Return on Equity	51.61	58.58	58.33

ELECTRICITY DEPARTMENT - GOA

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Details of GFA and WIP

Sr. No.	Particulars	WIP	Fixed Assets
1	2	3	4
1	As on 31st March of previous year (10-11)	454.97	595.50
	Add capital expenditure during FY 2011-12	160.41	
	Add capitalised during FY 2011-12		101.40
	Total:	615.38	696.90
	Less transferred to fixed assets	101.40	
	Less: Deductions from Fixed assets		3.21
2	As on 31st March of Previous year (11-12)	513.98	693.69
	Add capital expenditure during FY 2012-13	97.20	
	Add capitalised during FY 2012-13		125.81
	Total:	611.18	819.51
	Less transferred to fixed assets	125.81	
3	As on 31st March of Previous year (12-13)	485.36	816.84
	Add capital expenditure during FY 2013-14	103.08	
	Add capitalised during FY 2013-14		191.44
	Total:	588.44	1,008.28
	Less transferred to fixed assets	191.44	
4	As on 31st March of Previous year (13-14)	397.00	1,008.28
	Add capital expenditure during FY 2014-15	116.11	
	Add capitalised during FY 2014-15		182.63
	Total:	513.11	1,190.91
	Less transferred to fixed assets	182.63	
5	As on 31st March of Previous year (14-15)	330.48	1,190.91
	Add capital expenditure during FY 2015-16	134.89	
	Add capitalised during FY 2015-16		172.07
	Total:	465.37	1,362.98
	Less transferred to fixed assets	172.07	
6	As on 31st March of Previous year (15-16)	293.30	1,362.98
	Add capital expenditure during FY 2016-17	366.97	
	Add capitalised during FY 2016-17		313.22
	Total:	660.27	1,676.20
	Less transferred to fixed assets	313.22	
7	As on 31st March of Previous year (16-17)	347.05	1,676.20
	Add capital expenditure during FY 2017-18	1,208.54	
	Add capitalised during FY 2017-18		479.54
	Total:	1,555.59	2,155.74
	Less transferred to fixed assets	479.54	
	Less: Deductions from Fixed assets		-

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY
Details of Accumulated Depreciation

Sr.	Particulars	Amount
A	Accumulated Depreciation	
1	As on 31st March of previous year (10-11) *	155.09
2	Add: Depreciation for Previous year (11-12)	29.54
3	As on 31st March of Previous year (11-12)	184.63
4	Add: Depreciation for Previous year (12-13)	32.79
5	As on 31st March of Previous year (12-13)	217.42
6	Add: Depreciation for Previous year (13-14)	16.00
7	As on 31st March of Previous year (13-14)	233.42
8	Add: Depreciation for Previous year (14-15)	25.87
9	As on 31st March of Previous year (14-15)	259.29
10	Add: Depreciation for Previous year (15-16)	66.79
11	As on 31st March of Previous year (15-16)	326.08
12	Add: Depreciation for Previous year (16-17)	79.48
13	As on 31st March of Previous year (16-17)	405.56
14	Add: Depreciation for Previous year (17-18)	64.16
15	As on 31st March of Previous year (17-18)	469.73

(Rs. Crore)

Additions to Gross Fixed Assets for Normative Loan, Equity & Depreciation Purpose

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	2	3	4	5	6	7	8	9
1	Additions to GFA	101.40	125.85	154.53	116.05	172.07	313.22	983.12
2	Less: 60% Grant Component of APDRP Part-B / IPDS scheme	-	3.86	-	-	10.06	75.00	88.91
3	Less: Schemes out of ED Fund	16.64	28.52	35.00	35.00	35.00	75.00	225.16
4	Net Additions to GFA	84.76	93.47	119.53	81.05	127.01	163.22	669.04

Calculation of Opening Balance of Equity & Debt

Rs. Crs

Sr. No.	Particulars	Amount
	Calculation of Opening Balance of Equity	
1	Cl. Balance of GFA as on 31st March 2015	1,191
2	Electricity Duty utilised from FY 2008-09 to FY 2010-11	64
3	Addition of Electricity Duty Fund from FY 2011-12 to FY 2014-15	115
4	Op. Balance of Equity as on 1st April 2015 = (1-2-3)*30%	304
	Calculation of Opening Balance of Interest	
5	Op. Balance of GFA as on 1st April 2011	595
6	Electricity Duty utilised from FY 2008-09 to FY 2010-11	64
7	Op. Balance of Equity as on 1st April 2011 = (5-6)*70%	372

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ELECTRICITY DEPARTMENT - GOA

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Original Cost of Fixed Assets

(Rs. Crs)

Sr. No.	Assets group	Value of assets at the beginning of previous year *	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year
		2011-12	2011-12	2011-12	2011-12	2012-13	2012-13	2012-13	2012-13	2013-14	2013-14
1	2	3	4	5	6	7	8	9			
1	Land	6.28	-	-	6.28	-	-	6.28	1.47		7.76
2	Building	12.06	0.37	-	12.43	0.02	-	12.45	2.92		15.37
3	R.C.C. Tank	0.89	-	-	0.89	-	-	0.89	0.21		1.10
4	Plant & Machinery	80.04	3.87	-	83.91	8.75	-	92.66	21.72		114.37
5	Transformer above 100KVA	77.09	29.97	0.29	106.77	10.96	0.20	117.53	27.54		145.07
6	Transformer below 100KVA	17.55	2.71	0.15	20.11	9.51	0.12	29.50	6.91		36.41
7	Static Machine Tools	2.42	-	-	2.42	-	-	2.42	0.57		2.99
8	Self Propelled vehicles	2.80	0.30	0.02	3.08	0.36	0.04	3.41	0.80		4.21
9	Switch gear & S/S Equipment	41.53	13.33	1.65	53.21	9.46	1.10	61.57	14.43		76.00
10	Meters	52.85	9.39	0.52	61.72	13.65	0.59	74.78	17.52		92.30
11	Office furniture	1.00	0.08	0.01	1.08	0.05	0.01	1.12	0.26		1.38
12	Office Equipments	1.27	0.11	0.05	1.33	0.08	0.02	1.39	0.33		1.71
13	LT & HT Overhead Lines	144.72	9.61	-	154.33	13.88	-	168.21	39.42		207.63
14	Lightening Arrestors	8.17	0.01	0.05	8.13	0.00	0.04	8.09	1.90		9.99
15	Batteries	0.36	0.08	0.00	0.44	0.00	0.00	0.44	0.10		0.54
16	Street light fixtures	21.14	3.56	0.47	24.23	6.26	0.55	29.94	7.02		36.95
17	Service lines	17.92	-	-	17.92	-	-	17.92	4.20		22.12
18	Under Ground Lines	107.41	28.00	-	135.42	52.84	-	188.26	44.12		232.38
19	Others										
	Total	595.50	101.40	3.21	693.69	125.81	2.66	816.84	191.44	-	1,008.28

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ELECTRICITY DEPARTMENT - GOA

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Original Cost of Fixed Assets

(Rs. Crs)

Sr. No.	Assets group	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year
		2014-15	2014-15	2014-15	2015-16	2015-16	2015-16	2016-17	2016-17	2016-17	2017-18	2017-18	2017-18
1	2												
1	Land	1.40		9.16	1.32		10.48	2.41		12.89	3.69		16.58
2	Building	2.78		18.15	2.62		20.77	4.77		25.55	7.31		32.86
3	R.C.C. Tank	0.20		1.30	0.19		1.49	0.34		1.83	0.52		2.35
4	Plant & Machinery	20.72		135.09	19.52		154.61	35.53		190.14	54.40		244.53
5	Transformer above 100KVA	26.28		171.35	24.76		196.10	45.07		241.17	69.00		310.16
6	Transformer below 100KVA	6.59		43.00	6.21		49.22	11.31		60.53	17.32		77.84
7	Static Machine Tools	0.54		3.53	0.51		4.04	0.93		4.96	1.42		6.39
8	Self Propelled vehicles	0.76		4.97	0.72		5.69	1.31		6.99	2.00		8.99
9	Switch gear & S/S Equipment	13.77		89.77	12.97		102.74	23.61		126.35	36.15		162.50
10	Meters	16.72		109.02	15.75		124.77	28.67		153.44	43.90		197.34
11	Office furniture	0.25		1.64	0.24		1.87	0.43		2.30	0.66		2.96
12	Office Equipments	0.31		2.02	0.29		2.32	0.53		2.85	0.81		3.66
13	LT & HT Overhead Lines	37.61		245.24	35.43		280.67	64.50		345.18	98.75		443.93
14	Lightening Arrestors	1.81		11.79	1.70		13.50	3.10		16.60	4.75		21.35
15	Batteries	0.10		0.64	0.09		0.74	0.17		0.91	0.26		1.17
16	Street light fixtures	6.69		43.65	6.31		49.95	11.48		61.43	17.58		79.01
17	Service lines	4.01		26.13	3.77		29.90	6.87		36.77	10.52		47.29
18	Under Ground Lines	42.09		274.47	39.66		314.13	72.19		386.31	110.52		496.83
19	Others				-		-	-		-	-		-
	Total	182.63	-	1,190.91	172.07	-	1,362.98	313.22	-	1,676.20	479.54	-	2,155.74

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Works in Progress

(Rs. Crs)

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	2	3	4					
1	Opening Balance	454.97	511.43	487.25	398.89	332.37	295.19	348.94
2	Add: New Investments	160.41	97.20	103.08	116.11	134.89	366.97	1,208.54
3	Total	615.38	608.63	590.33	515.00	467.26	662.16	1,557.48
4	Less Investment Capitalized	101.40	125.81	191.44	182.63	172.07	313.22	479.54
5	Other Entries in CWIP*	(2.54)	4.43					
7	Closing Balance	511.43	487.25	398.89	332.37	295.19	348.94	

* Other entries : Material lying at site, advance to contractor/Supplier etc

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Interest Capitalised

(Rs. Crs)

Sr. No.	Interest Capitalized	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	2	3	4	5	6	7	8	9
1	WIP	511.43	487.25	398.89	332.37	295.19	348.94	-
2	GFA* at the end of the year	693.69	816.84	1,008.28	1,190.91	1,362.98	1,676.20	2,155.74
3	WIP+GFA at the end of the year	1,205.13	1,304.09	1,407.17	1,523.28	1,658.17	2,025.14	2,155.74
4	Interest (excluding interest on WCL*)	49.81	60.06	15.70	22.82	72.75	75.89	74.04
5	Interest Capitalized	-	-	-	-	-	-	-

*WIP:Works-in-Progress; GFA:Gross Fixed Assets; WCL:Working capital loan

ELECTRICITY DEPARTMENT - GOA

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Details of loans for FY 2011-12 (Actuals)

(Rs. Crs)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	2	3	4	5	6	7	9
1	SLR Bonds						
2	Non SLR Bonds						
3	LIC						
4	REC						
5	Commercial Banks						
6	Letter of Credit Charges						
7	Lease rental						
8	PFC						
9	GPF						
10	CSS						
11	Working capital loan						
12	Others				N.A.		
13	Total						
14	Add Govt. loan						
	-State Govt.						
	-Central Govt.						
	Total						
15	Total (13+14)						
16	Less capitalization						
17	Net interest						
18	Add prior period						
19	Total interest						
20	Finance charges						2.97
21	Total Interest and Finance Charges	-		-	-	-	2.97

Details of loans for FY 2012-13 (Actuals)

(Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	2	3	4	5	6	7	9
1	SLR Bonds						
2	Non SLR Bonds						
3	LIC						
4	REC						
5	Commercial Banks						
6	Letter of Credit Charges						
7	Lease rental						
8	PFC						
9	GPF						
10	CSS						
11	Working capital loan						
12	Others				N.A.		
13	Total						
14	Add Govt. loan						
	-State Govt.						
	-Central Govt.						
	Total						
15	Total (13+14)						
16	Less capitalization #						
17	Net interest						
18	Add prior period						
19	Total interest						
20	Finance charges						1.87
21	Total Interest and Finance Charges	-	-	-	-	-	1.87

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Details of loans for FY 2013-14 (Approved in Order)

(Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	2	3	4	5	6	7	9
1	SLR Bonds						
2	Non SLR Bonds						
3	LIC						
4	REC					-	-
5	Commercial Banks						
6	Letter of Credit Charges						
7	Lease rental					-	
9	GPF						
10	CSS						
11	Working capital loan						
12	Others						
13	Total	-		-	-	-	-
14	Add Govt. loan						
	-State Govt.						
	-Central Govt.						
	Total	-	-	-	-	-	-
15	Total (13+14)	-	-	-	-	-	-
16	Less capitalization #						
17	Net interest	-	-	-	-	-	-
18	Add prior period						
19	Total interest	-	-	-	-	-	15.70
20	Finance charges						1.00
21	Total Interest and Finance Charges	-	-	-	-	-	16.70

Note : *PFC loan for R-APDRP to be converted to grant on completion of projects within the specified period.

Details of loans for FY 2014-15 (Approved in Order)

(Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	2	3	4	5	6	7	9
1	SLR Bonds	-					-
2	Non SLR Bonds	-					-
3	LIC	-					-
4	REC	-				-	-
5	Commercial Banks	-					-
6	Letter of Credit Charges	-					-
7	Lease rental	-			-	-	-
8	Working capital loan	-					-
9	Others	-					-
10	Total	-		-	-	-	-
11	Add Govt. loan	-					-
	-State Govt.	-					-
	-Central Govt.	-					-
	Total	-	-	-	-	-	-
12	Total (13+14)	-		-	-	-	-
13	Less capitalization #	-					
14	Net interest	-	-	-	-	-	-
15	Add prior period	-					
16	Total interest	-	-	-	-	-	22.82
17	Finance charges	-					1.30
18	Total Interest and Finance Charges	-	-	-	-	-	24.12

ELECTRICITY DEPARTMENT - GOA

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Details of loans for FY 2015-16 (Actual)

(Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	2	3	4	5	6	7	9
1	SLR Bonds	-				-	-
2	Non SLR Bonds	-				-	-
3	LIC	-				-	-
4	REC	-				-	-
5	Commercial Banks	-				-	-
6	Letter of Credit Charges	-				-	-
7	Lease rental	-			-	-	-
8	Working capital loan	-				-	-
9	Others/ JICA	-				-	-
10	Total	-		-	-	-	-
11	Add Govt. loan	-				-	-
	-State Govt.	-				-	-
	-Central Govt.	-				-	-
	Total	-	-	-	-	-	-
12	Total (13+14)	-		-	-	-	-
13	Less capitalization #						
14	Net interest	-		-	-	-	-
15	Add prior period						
16	Total interest	-	-	-	-	-	-
17	Finance charges						-
18	Total Interest and Finance Charges	-	-	-	-	-	-

Details of loans for FY 2016-17 (Estimated)

(Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	2	3	4	5	6	7	9
1	SLR Bonds	-	-			-	-
2	Non SLR Bonds	-	-			-	-
3	LIC	-	-			-	-
4	REC	-	-			-	-
5	Commercial Banks	-	-			-	-
6	Letter of Credit Charges	-	-			-	-
7	Lease rental	-	0%		-	-	-
8	Working capital loan	-				-	-
9	Others/JICA	-	0%			-	-
10	Total	-		-	-	-	-
11	Add Govt. loan	-					
	-State Govt.	-					
	-Central Govt.	-					
	Total	-	-	-	-	-	-
12	Total (13+14)	-		-	-	-	-
13	Less capitalization #						
14	Net interest	-		-	-	-	-
15	Add prior period						
16	Total interest	-	-	-	-	-	-
17	Finance charges						-
18	Total Interest and Finance Charges	-	-	-	-	-	-

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Details of loans for FY 2017-18 (Ensuing Year)

(Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	2	3	4	5	6	7	9
1	SLR Bonds	-	-			-	-
2	Non SLR Bonds	-	-			-	-
3	LIC	-	-			-	-
4	REC	-	-			-	-
5	Commercial Banks	-	-			-	-
6	Letter of Credit Charges	-	-			-	-
7	Lease rental	-	0%			-	-
8	Working capital loan	-				-	-
9	Others/JICA	-	0%			-	-
10	Total	-		-	-	-	-
11	Add Govt. loan	-					
	-State Govt.	-					
	-Central Govt.	-					
	Total	-	-	-	-	-	-
12	Total (13+14)	-		-	-	-	-
13	Less capitalization #						
14	Net interest	-		-	-	-	
15	Add prior period						
16	Total interest	-	-	-	-	-	74.04
17	Finance charges						-
18	Total Interest and Finance Charges	-	-	-	-	-	74.04

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Normative Loan Recalculation

(Rs. Crs)

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	2	3	4					
1	Opening Normative Loan	372.08	394.21	420.22	461.87	472.41	514.08	566.19
2	Add: Normative Loan during the Year	59.33	65.43	83.67	56.74	88.91	114.25	468.33
3	Less: Normative Repayment	37.21	39.42	42.02	46.19	47.24	62.15	64.16
4	Closing Normative Loan	394.21	420.22	461.87	472.41	514.08	566.19	970.35
4	Average Normative Loan	383.14	407.21	441.04	467.14	493.25	540.13	768.27
5	Rate of Interest (@SBAR rate)	13.00%	14.75%	14.45%	14.75%	14.75%	14.05%	11.60%
6	Interest on Normative Loan	49.81	60.06	15.70	22.82	72.75	75.89	74.04
7	Other Finance Charges	2.97	1.87	1.00	1.30	-	-	-
8	Total Interest & Finance Charges	52.78	61.93	16.70	24.12	72.75	75.89	74.04

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Information regarding restructuring of outstanding loans

Sr. No.	Source of loan	Amount of original loan (Rs. Crores)	Old rate of interest	Amount already restructured	Revised rate of interest	Amount now being restructured (Rs. Crores)	New rate of interest
				(Rs. Crores)			
1	2	3	4	5	6	7	8
1							

N.A

Format 12
ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Value of Assets and Depreciation Charges on total capitalisaiton

(Rs Crs)

Sr. No.	Name of the Assets	Rate of Dep*	True Up				Previous Years (Approved)				Previous Year (Provisional)		Current Year (Provisional)		Ensuing Year (Approved)	
			FY 2011-12		FY 2012-13		FY 2013-14		FY 2014-15		FY 2015-16		FY 2016-17		FY 2017-18	
			Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Land		6.28		6.28						9.16		10.48		12.89	
2	Building	3.34%	12.06	0.37	12.43	0.37	8.63	0.17	10.65	0.27	18.15	0.65	20.77	0.77	25.55	0.98
3	R.C.C. Tank	5.28%	0.89	0.04	0.89	0.04	0.98	0.02	1.20	0.03	1.30	0.07	1.49	0.09	1.83	0.07
4	Plant & Machinery	5.28%	80.04	3.90	83.91	4.20	96.70	1.89	119.36	3.06	135.09	7.65	154.61	9.10	190.14	7.28
5	Transformer above 100KVA	5.28%	77.09	7.14	106.77	5.33	122.79	2.41	151.57	3.89	171.35	9.70	196.10	11.54	241.17	9.23
6	Transformer below 100KVA	5.28%	17.55	0.88	20.11	1.16	26.73	0.52	33.00	0.85	43.00	2.43	49.22	2.90	60.53	2.32
7	Static Machine Tools	5.28%	2.42	0.11	2.42	0.11	2.65	0.05	3.27	0.08	3.53	0.20	4.04	0.24	4.96	0.19
8	Self Propelled vehicles	9.50%	2.80	0.25	3.08	0.27	6.14	0.12	7.57	0.19	4.97	0.51	5.69	0.60	6.99	0.27
9	Switch gear & S/S Equipment	5.28%	41.53	2.20	53.21	2.68	61.81	1.21	76.30	1.96	89.77	5.08	102.74	6.05	126.35	4.84
10	Meters	5.28%	52.85	2.62	61.72	3.22	74.10	1.45	91.46	2.35	109.02	6.17	124.77	7.34	153.44	5.87
11	Office furniture	6.33%	1.00	0.06	1.08	0.06	1.43	0.03	1.77	0.05	1.64	0.11	1.87	0.13	2.30	0.09
12	Office Equipments	6.33%	1.27	0.07	1.33	0.08	1.76	0.03	2.17	0.06	2.02	0.14	2.32	0.16	2.85	0.11
13	LT & HT Overhead Lines	5.28%	144.72	7.18	154.33	7.64	176.03	3.45	217.28	5.57	245.24	13.88	280.67	16.52	345.18	13.21
14	Lightening Arrestors	5.28%	8.17	0.39	8.13	0.38	8.86	0.17	10.93	0.28	11.79	0.67	13.50	0.79	16.60	0.64
15	Batteries	5.28%	0.36	0.02	0.44	0.02	0.48	0.01	0.60	0.02	0.64	0.04	0.74	0.04	0.91	0.03
16	Street light fixtures	5.28%	21.14	1.05	24.23	1.31	30.20	0.59	37.28	0.96	43.65	2.47	49.95	2.94	61.43	2.35
17	Service lines	5.28%	17.92	0.85	17.92	0.85	19.62	0.38	24.22	0.62	26.13	1.48	29.90	1.76	36.77	1.41
18	Under Ground Lines	5.28%	107.41	5.62	135.42	7.72	177.94	3.49	219.65	5.64	274.47	15.54	314.13	18.49	386.31	14.79
19	Others	5.28%									-		-	-	-	-
	Total		595.50	32.75	693.69	35.45	816.84	16.00	1,008.28	25.87	1,190.91	66.79	1,362.98	79.48	1,676.20	64.16

Electricity Department - Goa

TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Depreciation & Accumulated Depreciation Charges as per Norms

(Rs. Crs)

Sr. No.	Depreciaton	True Up		Previous Years (Approved)		Previous Year (Provisional)		Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY13-14	FY14-15	FY15-16	FY16-17	FY17-18
1	2	3	4	5	6	7	8	9
1	Opening Gross Fixed Asset	595.50	677.05	767.86	887.39	968.44	1,095.45	1,258.67
2	Add: Assets added during year (excl grant & ED Fund component)	84.76	93.47	119.53	81.05	127.01	163.22	669.04
3	Less: Withdrawal during year	3.21	2.66					
4	Closing Gross Fixed Asset	677.05	767.86	887.39	968.44	1,095.45	1,258.67	1,927.72
5	Average Gross Fixed Asset	636.27	722.45	827.62	927.91	1,031.95	1,177.06	1,593.19
6	Average Depreciation Rate	5.15%	4.91%			5.28%	5.28%	
	Total Depreciation for year	32.75	35.45	16.00	25.87	54.49	62.15	64.16

(Rs. Crs)

Sr. No.	Accumulated Depreciation	True Up		Previous Years (Approved)		Previous Year (Provisional)		Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY13-14	FY14-15	FY15-16	FY16-17	FY17-18
1	2	3	4	5	6	7	8	9
1	Opening Accumulated Depreciation	155.09	184.63	28.13	44.13	70.00	124.49	186.64
2	Add: Depreciation for the year	29.54	32.79	16.00	25.87	54.49	62.15	64.16
3	Closing Accumulated Depreciation	184.63	217.42	44.13	70.00	124.49	186.64	250.80

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Repair and Maintenance Expenses

(Rs. Crs)

Sr. No	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Current Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17 H1	FY 2016-17 H2	FY 2016-17	FY 2017-18
1	2	3	4						-	
1	Plant & machinery					5.40	2.03	2.32	4.34	
2	Building					1.12	0.19	1.31	1.50	
3	Hydraulic works & civil works					-	-	-	-	
4	Line cable & network					9.70	6.86	5.19	12.05	
5	Vehicles	9.52	19.16			3.51	1.62	1.88	3.50	
6	Furnitures & Fixtures					0.57	0.23	0.07	0.30	
7	Office Equipments					0.62	0.01	0.01	0.03	
8	Operating Expenses								-	
9	Minor R&M works					5.66	4.95	1.42	6.37	
10	Total	9.52	19.16	-	-	26.58	15.89	12.20	28.09	-
11	Add/Deduct share of others (To be specified)					-	-	-	-	
12	Total expenses	9.52	19.16	-	-	26.58	15.89	12.20	28.09	-
13	Less : Capitalized					-	-	-	-	
14	Net expenses	9.52	19.16	-	-	26.58	15.89	12.20	28.09	-
15	Add: prior period					-	-	-	-	
16	Total expenses charged to revenue as R&M expenses	9.52	19.16	19.61	20.73	26.58	15.89	12.20	28.09	30.57

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Total Number of Employees

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17 H1	FY 2016-17 H2	FY 2017-18
1	2	3	4	5	6	7	8	9	10
1	Number of employees as on 1st April	5,002	5,025	5,015	4,910	5,845	5,769	6,621	6,566
2	Employees on deputation/ foreign service as on 1st April	829	1,185			738	738	622	
3	Total number of employees as on 1st April (1+2)	5,831	6,210	5,015	4,910	6,583	6,507	7,243	6,566
4	Permanent Posts filled during the year	149	128	87	1,079	95	919	-	
5	Contract Employees as on 31st March	356	-	-	-	-	-	-	
6	Number of employees retired/ retiring/ Expired/VR/Regined during the year	126	138	192	144	171	67	55	
7	Number of employees at the end of the year (4-5)	6,210	6,200	4,910	5,845	6,507	7,359	7,188	6,566

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Employee Cost

(Rs. Crs)

Sr.No	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Current Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17 H1	FY 2016-17 H2	FY 2016-17	FY 2017-18
1	2	3	4	5	6	7	8	9	10	11
	Salaries & Allowances									
1	Salary	155.04	154.63	144.21	152.42	214.42	130.96	120.00	250.96	254.24
2	Wages									
3	Stipend									
4	Transport Allowance									
5	Overtime allowance									
6	Total	155.04	154.63	144.21	152.42	214.42	130.96	120.00	250.96	254.24
7	Less: Add/Deduct share of others								-	
8	Total	155.04	154.63	144.21	152.42	214.42	130.96	120.00	250.96	254.24
9	Less: Amount capitalized					-	0.00	0.00	-	
10	Net amount	155.04	154.63	144.21	152.42	214.42	130.96	120.00	250.96	254.24
11	Add: Pension/ DA and other Provision					-	-	-	-	
12	Total Employee Expenses	155.04	154.63	144.21	152.42	214.42	130.96	120.00	250.96	254.24

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Administration and General Expenses

(Rs. Crs)

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Current Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17 H1	FY 2016-17 H2	FY 2016-17	FY 2017-18
1	2	3	4							
1	Travelling Expenses	0.32	0.37			0.31	0.12	0.39	0.51	
2	Office Expenses	9.91	17.98			14.24	7.27	9.47	16.74	
3	Petrol,Oil,Lubricant (P.O.L)	0.01	0.01						-	
4	Rent,Rates & Taxes	0.15	0.22			0.40	0.19	0.27	0.46	
5	Advertisement & Publicity	0.20	0.24			0.25	0.06	0.12	0.18	
6	Professional & Special Services	0.48	0.44			1.73	1.55	0.85	2.40	
7	Other Charges	1.18	1.14						-	
8	Overtime Allowance	0.00	0.00						-	
9	Minor Works	1.44	1.77						-	
10	Audit of Accounts and Professional Fees	0.11	0.11			0.46	0.18	0.86	1.04	
13	Total	13.80	22.27	-	-	17.39	9.36	11.95	21.32	-
14	Add/Deduct share of others (to be specified)	-	-			-	-	-	-	
15	Total expenses	13.80	22.27	-	-	17.39	9.36	11.95	21.32	-
16	Less: Capitalized					-	-	-	-	
17	Net expenses	13.80	22.27	-	-	17.39	9.36	11.95	21.32	-
18	Add: Prior period					-	-	-	-	
19	Total A&G Expenses charged to revenue	13.80	22.27	9.08	9.46	17.39	9.36	11.95	21.32	10.12

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF
DETERMINATION FOR FY 2017-18

Information regarding Bad and Doubtful Debts

(Rs. Crs)

Sr. No.	Particulars	True Up	
		FY 2011-12	FY 2012-13
1	2	3	4
1	Amount of receivables (audited)	254.16	261.74
2	Bad and doubtful debts actually written-off in the books of accounts	2.54	2.62
3	Provision made for debts in ARR	2.54	2.62

Format-18

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Information regarding Working Capital for Previous and Current year as per JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009

(Rs. Crs)

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
1	2	3	4			
1	Power Purchase Cost - 1 Month	93.76	87.10	77.10	77.83	95.15
2	Employee Cost - 1 Month	12.92	12.89	12.02	12.70	17.87
3	Administration & General Expenses - 1 Month	1.15	1.86	1.63	0.79	1.45
4	R&M Cost - 1 Month	0.79	1.60	0.75	1.73	2.22
5	Less: Security Deposit Opening Bal.	76.74	90.58	106.58	115.36	128.46
6	Total	31.88	12.86	(15.09)	(22.31)	(11.78)
7	Interest Rate	13.00%	14.75%	14.45%	14.75%	14.75%
8	Interest on working capital	4.14	1.90	3.84	1.80	-

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Information regarding Working Capital for ensuing year as per JERC (Multi Year Distribution Tariff) Regulations, 2014

(Rs. Crs)

Sr. No.	Particulars	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2016-17	FY 2017-18
1	2	1	2
1	Two Months Receivable	259.54	307.55
2	Power Purchase Cost for one month	104.15	111.70
3	Inventory for two months	4.24	-
4	Total working Capital requirement	159.63	195.85
5	6 Less: Security Deposit	78.29	89.43
6	Net working Capital requirement	81.34	106.42
7	Interest Rate	9.30%	9.30%
8	Interest on working capital	7.56	9.90

* - Inventory considered based on FY 2012-13 provisional figures and multiplied by two

Format-18-A

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Information regarding Security Deposits from Consumers

(Rs. Crs)

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	2	3	4					
1	Opening Security Deposit	76.74	90.58	106.58	115.36	128.46	71.04	85.55
2	Add: Deposits during the Year	17.65	21.54	9.62	15.96	6.05	18.13	1.14
3	Less: Deposits refunded	3.82	5.54	0.84	2.86	7.54	3.62	
4	Less: Deposits in form of BG/FDR					55.94		
5	Closing Security Deposit	90.58	106.58	115.36	128.46	71.04	85.55	86.68
6	Bank Rate	6.00%	9.50%	8.50%	8.50%	8.50%	7.75%	7.75%
7	Interest on Security Deposit *	5.02	9.36	5.42	6.82	8.48	6.06	6.93

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Provisions of Interest on Security Deposits from Consumers

Rs.Crs

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	2	3	4					
1	Opening Security Deposit	76.74	90.58	106.58	115.36	128.46	71.04	85.55
2	Add: Deposits during the Year	17.65	21.54	9.62	15.96	6.05	18.13	1.14
3	Less: Deposits refunded	3.82	5.54	0.84	2.86	7.54	3.62	-
4	Less: Deposits in form of BG/FDR	-	-			55.94	-	
5	Closing Security Deposit	90.58	106.58	115.36	128.46	71.04	85.55	86.68
6	Bank Rate	6.00%	9.50%	8.50%	8.50%	8.50%	7.75%	7.75%
7	Interest on Security Deposit *	5.02	9.36	5.42	6.82	8.48	6.06	6.93
8	Cumulative Security Deposit of Past Years	48.10						
9	Interest on Security Deposit Paid	0.14	0.23					
10	Balance Interest on Security Deposit to be Paid during control Period	14.01						

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Information regarding Foreign Exchange Rate Variation (FERV)

(Rs. Crs)

Sr. No.	Particulars	True Up		Approved		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	2	3	4	5	6	7	8	9
1	Amount of liability provided	NIL						
2	Amount recovered							
3	Amount adjusted							

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Non Tariff Income

(Rs. Crore)

Sr. No.	Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	2	3	4	5	6	7	8	9
1	Meter/service rent	3.72	3.73			4.17	4.22	
2	Late payment surcharge							
3	UI Sales / Sales to Exchange	46.48	20.68					
4	Wheeling charges under open access							
5	Income from trading	57.70	12.08		-	0.03		-
6	Income staff welfare activities							
7	Misc. Receipts/income	13.10	8.57		-	10.54	10.54	-
8	Deferred Income (Electricity Development fund)	0.23	1.26				-	
9	Total income	121.22	46.33	-	-	14.74	14.76	-
10	Add: Prior Period income						-	
11	Total Non Tariff income	121.22	46.33	22.55	6.74	14.74	14.76	6.74

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
Information regarding Revenue from Other Business

Sr. No.	Particulars	(Amount in Crores Rupees)						
		True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
	2	3	4	5	6	7	8	9
1	Total revenue from other business	NIL						
2	Income from other business to be considered for licensed business as per regulations							

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Lease Details

Sr. No.	Name of Lesser	Gross Assets (Rs. Crore)	Lease entered on	Lease Rentals (Crs/pm)	Primary period ended/ ending by	Secondary period ending by
1	2	3	4	5	6	7
						NA

Format-23**ELECTRICITY DEPARTMENT - GOA****TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18****Information regarding Wholesale Price Index (All Commodities)**

Sr. No.	Period	WPI	Increase over previous year
1	2	3	4
1	Financial Year 2010-11	143.33	
2	Financial Year 2011-12	156.13	8.93%
3	Financial Year 2012-13	167.62	7.36%
4	Financial Year 2013-14	177.64	5.98%
5	Financial Year 2014-15	181.19	2.00%
6	Financial Year 2015-16	176.72	-2.47%
7	Average WPI of last three years		1.84%

Format-24**ELECTRICITY DEPARTMENT - GOA****TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18****Information regarding amount of equity and loan**

Sr. No.	Period	Amount of equity (Rs. Crore) *	Amount of loan (Rs. Crore)	Ratio of equity & loan
1	2	3	4	5
1	As on March 31 of FY2011-12	265.48	394.21	40 : 60
2	As on March 31 of FY 2012-13	303.23	420.22	42 : 58
3	As on March 31 of FY 2013-14	360.66	461.87	44 : 56
4	As on March 31 of FY 2014-15	415.45	472.41	47 : 53
5	As on March 31 of FY 2015-16	467.07	514.08	48 : 52
6	As on March 31 of FY 2016-17	561.04	566.19	50 : 50
7	As on March 31 of FY 2017-18	704.90	970.35	42 : 58

Note * Equity is computed as balancing figure from Total GFA minus Normative Loan

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
ANNUAL REVENUE REQUIREMENT FOR FY 2011-12 and FY 2012-13(ACTUALS)

(Rs. in Crs)

Sr. No.	Item of expense	Approved by Commission	Actuals as per Accounts	Approved by Commission	Actuals as per Accounts
		2011-12		2012-13	
1	2	3	4	5	6
1	Cost of fuel				
2	Cost of power purchase	1,060.47	1,125.10	866.01	1,045.22
3	Employee costs	125.89	155.04	136.44	154.63
4	Administration and General expenses	19.31	13.80	8.59	22.27
5	R&M Expenses	17.03	9.52	18.55	19.16
6	Depreciation	3.33	32.75	8.80	35.45
7	Interest and Finance Charges	6.42	52.78	10.33	61.93
8	Interest on Working Capital	3.83	4.14	2.22	1.90
9	Return on NFA /Equity	-	13.21	3.68	15.27
10	Provision for Bad Debt	-	2.54	-	2.62
11	Interest on Consumer Security Deposit paid	-	0.14	5.94	0.23
12	Other Expenses			0.60	
13	Total Revenue Requirement	1,236.28	1,409.03	1,061.18	1,358.69
14	Less: Non Tariff Income	139.48	121.22	29.17	46.33
15	Net Revenue Requirement (11-12)	1,096.80	1,287.81	1,032.01	1,312.36
16	Revenue from Tariff	813.65	856.35	970.94	973.58
17	Net Gap (13-14)	283.15	431.46	61.08	338.78
18	Energy sales (MU) *	2,746.32	2,880	2,886.30	2,925.24
19	Average Cost of Supply (Rs/kWh)	3.99	4.47	3.58	4.49

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF
DETERMINATION FOR FY 2017-18

ANNUAL REVENUE REQUIREMENT FOR FY 2013-14 and FY 2014-15 (Approved in Order)

(Rs. in Crs)

Sr. No.	Item of expense	FY13-14	FY14-15
1	2	3	4
1	Cost of fuel		
2	Cost of power purchase	933.46	1,093.61
3	Employee costs	144.21	152.42
4	Administration and General expenses	9.08	9.46
5	R&M expenses	19.61	20.73
6	Depreciation	16.00	25.87
7	Int and Finance Charges	16.70	24.12
8	Interest on Working Capital	3.84	1.80
9	Return on NFA /Equity	5.86	11.12
10	Provision for Bad Debt	-	
11	Interest on Consumer Security Deposit	5.42	6.82
12	Amortization of the regulatory asset proposed for previous years		
13	Other Expenses	0.56	
14	Total Revenue Requirement	1,154.73	1,345.95
15	Less: Non Tariff Income	22.55	6.74
16	Less: Revenue from Sale of Power - UI Pool	8.38	
17	Provision for RPO Obligation for previous	29.42	20.70
18	Net Revenue Requirement (11-12)	1,153.22	1,359.91
19	Revenue from Tariff *	1,014.05	1,147.34
20	Revenue Gap (14-15)	139.17	212.57
21	Additional Surcharge		
22	Net Revenue Gap after Surcharge (16-17)	139.17	212.57
23	Energy sales (MU)	2,962	3,114
24	Average Cost of Supply (Rs/kWh)	3.89	4.37

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF
DETERMINATION FOR FY 2017-18

ANNUAL REVENUE REQUIREMENT FOR FY 2015-16 (Actual Provisional)

(Rs. in Crs)

Sr. No.	Item of expense	Approved by the Commission	Submitted by Lincesee
1	2	3	4
1	Cost of fuel		
2	Cost of power purchase	1,048.33	1,141.84
3	Employee costs	161.53	214.42
4	Administration and General expenses	10.03	17.39
5	R&M Expenses	12.68	26.58
6	Depreciation	38.81	54.49
7	Int and Finance Charges	33.49	72.75
8	Interest on Working Capital	2.34	-
9	Return on NFA /Equity	15.82	27.95
10	Provision for Bad Debt		
11	Interest on Consumer Security Deposit	7.43	8.48
12	Total Revenue Requirement	1,330.47	1,563.90
13	Less: Non Tariff Income	6.74	14.74
14	Net Revenue Requirement (11-12)	1,323.73	1,549.15
15	Revenue from Tariff *	1,138.31	1,235.21
16	Revenue Gap (13-14)	185.42	313.95
17	Additional Surcharge		
18	Net Revenue Gap after Surcharge (15-16)	185.42	313.95
19	Energy sales (MU)	3,233	3,160
20	Average Cost of Supply (Rs/kWh)	4.09	4.90

* Note: Revenue from Tariff includes FPPCA but doesn't includes sale through UI /
Export to Exchange

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

ANNUAL REVENUE REQUIREMENT FOR FY 2016-17 (H1 Actual + H2 Projected)

(Rs. in Crs)

Sr. No.	Item of expense	Proposed by licensee	Approved by the Commission	Actual H1	Projected H2	Actual Submitted by Licensee
1	2	3	4	5	6	7
1	Cost of fuel					-
2	Cost of power purchase		1,245.03	627.91	621.84	1,249.74
3	Provision for RPO Compliance		8.55			-
4	Employee costs		239.21	130.96	120.00	250.96
5	Administration and General expenses		9.48	9.36	11.95	21.32
6	R&M Expenses		27.86	15.89	12.20	28.09
7	Depreciation		49.22	31.07	31.07	62.15
8	Int and Finance Charges		57.63	37.94	37.94	75.89
9	Interest on Working Capital		8.36	3.78	3.78	7.56
10	Return on NFA /Equity		44.74	29.29	29.29	58.58
11	Provision for Bad Debt		-	-	-	-
12	Provision for DSM Expenses		3.98	1.99	1.99	3.98
13	Interest on Consumer Security Deposit		6.82	3.03	3.03	6.06
14	Total Revenue Requirement	-	1,700.87	891.23	873.10	1,764.33
15	Less: Non Tariff Income		6.74	7.38	7.38	14.76
16	Net Revenue Requirement (11-12)	-	1,694.13	883.85	865.72	1,749.58
17	Revenue from Tariff *		1,441.26	778.62	778.62	1,557.24
18	Revenue Gap (13-14)	-	252.87	105.23	87.10	192.34
19	Additional Surcharge					-
20	Net Revenue Gap after Surcharge (15-16)	-	252.87	105.23	87.10	192.34
21	Energy sales (MU)		3,352.17	1,721.92	1,721.92	3,443.85
22	Average Cost of Supply (Rs/kWh)		5.05	5.13	5.03	5.08

* Note: Revenue from Tariff includes FPPCA but doesn't includes sale through UI / Export to Exchange

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF
DETERMINATION FOR FY 2017-18

PROJECTION OF ANNUAL REVENUE REQUIREMENT FOR FY 2017-18

(Rs. in Crs)

Sr. No.	Item of expense	Approved by the Commission
1	2	3
1	Cost of fuel	
2	Cost of power purchase	1,330.97
3	Provision for RPO Compliance	9.38
4	Employee costs	254.24
5	R&M expenses	30.57
6	Administration and General expenses	10.12
7	Depreciation	64.16
8	Interest on Loan	74.04
9	Interest on Working Capital	9.90
10	Return on NFA /Equity	58.33
11	Provision for Bad Debt	
12	Provision for DSM Expenses	3.41
13	Interest on Consumer Security Deposit	6.93
14	Total Revenue Requirement	1,852.06
15	Less: Non Tariff Income	6.74
16	Net Revenue Requirement (11-12)	1,845.32
17	Revenue from Existing Tariff *	1,719.91
18	Net Gap (13-14)	125.41
19	Energy sales (MU)	3,495
20	Average Cost of Supply (Rs/kWh)	5.28

ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
BRIEF GAP SUMMARY FOR CONTROLPERIOD

(Rs.In Crs)

Particulars	True Up		Previous Years (Approved)		Previous Year (Provisional)	Current Year (Provisional)	Ensuing Year (Approved)
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Net ARR	1,288	1,312	1,153	1,360	1,549	1,750	1,845
Less: Revenue at Existing Tariffs excluding Surcharge	856	974	1,014	1,147	1,235	1,557	1,720
Revenue Gap for the year	431	339	139	213	314	192	125
Opening Balance of Gap		-	-	-	-	-	9
Add: Past Gap							
<i>Gap for FY 2011-12</i>	431						
<i>Gap for FY 2012-13</i>		339					
<i>Gap for FY 2013-14</i>			139				
<i>Gap for FY 2014-15</i>				213			
<i>Gap for FY 2015-16</i>					314		
<i>Gap for FY 2016-17</i>						192	
<i>Gap for FY 2017-18</i>							125
Total Cumulative Gap for years	431	339	139	213	314	192	135
Less: Budgetary Support	431	339				183	
Gap to be recovered from Consumers	-	-	139	213	314	9	135
Less: To be addressed at the time of True-up			139	213	314		
Balance Gap to be recovered	-	-	-	-	-	9	135
Less: Proposed recovery in FY 2017-18	-	-	-	-	-		135
Balance Gap to be recovered		-	-	-	-	9	-
Additional Past recoveries							
Accumulated Interest on Security Deposit to be paid in MYT Period							14
Balance Gap to be recovered from MYT Control Period							149
Less: Budgetary Support from Government of Goa							149
Proposed Gap Recovery in FY 2017-18							-
Proposed Tariff hike from last year							0%

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ELECTRICITY DEPARTMENT - GOA
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18

Segregation of Wheeling Business and Retail Supply Business for FY 17-18 (Rs. in Crs)

Sr. No.	Item of expense	Wire Business	Supply Business	Wire Business	Supply Business	Total
		%	%	FY 2017-18		
1	2	3	4	5	6	7
1	Cost of fuel					
2	Cost of power purchase	0%	100%	-	1,330.97	1,330.97
3	Provision for RPO Compliance	0%	100%	-	9.38	9.38
4	Employee costs	70%	30%	177.97	76.27	254.24
5	R&M expenses	50%	50%	15.29	15.29	30.57
6	Administration and General expenses	90%	10%	9.11	1.01	10.12
7	Depreciation	90%	10%	57.75	6.42	64.16
8	Interest & Financial charges	90%	10%	66.64	7.40	74.04
9	Interest on Working Capital	22%	78%	2.18	7.72	9.90
10	Return on NFA /Equity	90%	10%	52.50	5.83	58.33
11	Provision for Bad Debt	0%	100%	-	-	-
12	Provision for DSM Expenses	0%	100%	-	3.41	3.41
13	Interest on Consumer Security Deposit	0%	100%	-	6.93	6.93
14	Total Revenue Requirement			381.42	1,470.64	1,852.06
15	Less: Non Tariff Income	0%	100%	-	6.74	6.74
16	Net Revenue Requirement (12-13)			381.42	1,463.90	1,845.32
17	Energy sales (MU) *					3,494.72
18	Average Cost of Supply (Rs/kWh)					5.28

ELECTRICITY DEPARTMENT - Goa
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
REVENUE AT EXISTING TARIFF
YEAR 2011-12 (Actual April 2011 to March 2012)

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Maximum Demand (KW/kVA)	Revenue (Rs Crs)			
					Demand Charges	Energy Charges	FPPCA Charges	Total
1	2	3	4	5	6	7	8	9
A. LOW TENSION SUPPLY								
1	(a) LTD/Domestic	410,457	752	683,756		127.16		127.16
	(b) LTD/L.I.G.	11,432	8	5,610		0.91		0.91
	(c) LTD Domestic Mixed	574	3	84		0.93		0.93
2	LTC/Commercial	76,792	249	256,810		92.18		92.18
3	(a) LTP/Motive Power	6,799	78	332,470		23.05		23.05
	(b) LTP Mixed (Hotel Industries)	17,869	6	-		2.91		2.91
	(c) LTP Ice Manufacturing	34	7	-		2.07		2.07
4	LTAG/Agriculture	8,622	14	66,250		2.12		2.12
5	(a) LTPL (Public lighting)	972	31	12,670		8.34		8.34
6	LTPWW/Public Water works	4,064	3	12,350		0.84		0.84
	Total	537,615	1,151	1,370,000		260.51		260.51
B. HIGH TENSION SUPPLY								
7	HT (Mixed)	180	129	75,976		50.89		50.89
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	24	461	119,953		136.21		136.21
9	HTI Industrial	423	643	250,412		235.09		235.09
10	HTAG (Agriculture)	43	7	14,435		1.38		1.38
11	EHTI (Industrial)	4	171	91,953		60.79		60.79
12	HT P.W.W. & Sewage system	29	139	36,600		53.89		53.89
13	HT. M.E.'s Defence Estt.	12	25	8,894		8.01		8.01
14	HTI (Steel Rolling)	15	121	7,635		32.06		32.06
15	HTI / IT High Tech	10	6	4,082		1.95		1.95
16	HTI/Ice Manufacturing	1	0.40	-		0.11		0.11
17	(a) Sale from EDG to GSPL (Div. VII)	1	9	-		2.50		2.50
18	Sale to MSEDCL (Div. VI)	1	-	-		0.04		0.04
	Total	743	1,711	609,941		582.92		582.92
C. TEMPORARY SUPPLY								
19	(a) L.T. Temporary	5,535	18	2,890		11.78		11.78
	(b) H.T. Temporary	2	0			0.30		0.30
20	Arrears under RRC (with no. of cases)					0.83		0.83
	Total	5,537	18	2,890		12.92		12.92
	Total	543,895	2,880	1,982,831		856.35		856.35

ELECTRICITY DEPARTMENT - Goa
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
REVENUE AT EXISTING TARIFF
YEAR 2012-13 (Actual April 2012 to March 2013)

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Maximum Demand (KW/kVA)	Revenue (Rs Crs)			
					Demand Charges	Energy Charges	FPPCA Charges	Total
1	2	3	4	5	6	7	8	9
A. LOW TENSION SUPPLY								
1	(a) LTD/Domestic	409,792	797	718,042		150.70		150.70
	(b) LTD/L.I.G.	11,249	7	5,610		1.05		1.05
	(c) LTD Domestic Mixed	716	4	111		1.33		1.33
2	LTC/Commercial	77,705	251	269,854		104.83		104.83
3	(a) LTP/Motive Power	6,716	75	349,094		24.10		24.10
	(b) LTP Mixed (Hotel Industries)	109	5	-		2.83		2.83
	(c) LTP Ice Manufacturing	40	7	-		2.37		2.37
4	LTAG/Agriculture	10,060	13	75,714		2.31		2.31
5	(a) LTPL (Public lighting)	1,307	33	12,670		10.61		10.61
	(b) Arrears (Street light)					0.05		0.05
6	LTPWW/Public Water works	269	2	20,815		0.99		0.99
	Total	517,963	1,196	1,451,910		301.16		301.16
B. HIGH TENSION SUPPLY								
7	HT (Mixed)	171	115	79,775		47.18		47.18
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	25	526	123,552		195.66		195.66
9	HTI Industrial	433	640	267,941		242.27		242.27
10	HTAG (Agriculture)	42	6	17,322		1.20		1.20
11	EHTI (Industrial)	5	132	96,551		55.50		55.50
12	HT P.W.W. & Sewage system	32	140	37,698		57.76		57.76
13	HT. M.E.'s Defence Estt.	12	25	9,339		9.61		9.61
14	HTI (Steel Rolling)	13	64	8,093		24.87		24.87
15	HTI / IT High Tech	36	41	4,082		15.58		15.58
16	HTI/Ice Manufacturing	1	0			0.18		0.18
17	(a) Sale from EDG to GSPL (Div. VII)	1	5			1.57		1.57
18	Sale to MSEDCL (Div. VI)	1	-			-0.05		(0.05)
19	HTI Hotel Industry	11	14			5.72		5.72
	Total	783.00	1,709	644,353		657.03		657.03
C. TEMPORARY SUPPLY								
20	(a) L.T. Temporary	4,867	20	2,952.50		14.27		14.27
	(b) H.T. Temporary	2	1	-		0.84		0.84
21	Arrears under RRC (with no. of cases)	-	-			0.27		0.27
	Total	4,869	20	2,953		15.38		15.38
	Total	523,615	2,925	2,099,215		973.58		973.58

ELECTRICITY DEPARTMENT - Goa
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
REVENUE AT EXISTING TARIFF
YEAR 2013-14 (Approved April 2013 to March 2014)

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Maximum Demand (KW/kVA)	Revenue (Rs Crs)			
					Demand Charges	Energy Charges	FPPCA Charges	Total
1	2	3	4	5	6	7	8	9
A. LOW TENSION SUPPLY								
1	(a) LTD/Domestic	443,947	800	1,127,149		152.00		152.00
	(b) LTD/L.I.G.	14,321	3	1,201		0.73		0.73
	(c) LTD Domestic Mixed	50	5	2,186		2.00		2.00
2	LTC/Commercial	95,062	291	333,665		100.00		100.00
3	(a) LTP/Motive Power	9,581	89	457,533		33.00		33.00
	(b) LTP Mixed (Hotel Industries)	126	5	3,298		1.99		1.99
	(c) LTP Ice Manufacturing	45	8	1,873		2.50		2.50
4	LTAG/Agriculture	11,094	16	63,970		2.71		2.71
5	(a) LTPL (Public lighting)	9,076	24	9,011		6.61		6.61
6	LTPWW/Public Water works	550	6	21,463		1.47		1.47
	Total	583,852	1,247	2,021,349		303.01		303.01
B. HIGH TENSION SUPPLY								
7	HT (Mixed)	201	111	67,716		47.14		47.14
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	26	532	93,316		188.00		188.00
9	HTI Industrial	464	629	357,311		262.36		262.36
10	HTAG (Agriculture)	42	5	8,211		0.89		0.89
11	EHTI (Industrial)	4	184	76,596		70.48		70.48
12	HT P.W.W. & Sewage system	31	139	26,879		48.47		48.47
13	HT. M.E.'s Defence Estt.	12	25	6,818		8.86		8.86
14	HTI (Steel Rolling)	13	59	16,219		29.00		29.00
15	HTI / IT High Tech	8	20	5,164		23.25		23.25
16	Tariff HT-Industries (ICE).	2.00	0			0.21		0.21
	Total	803	1,705	658,230		678.66		678.66
C. TEMPORARY SUPPLY								
		4,085	10	16,316		9.19		9.19
17	(a) L.T. Temporary	4,085	10	16,316		9.11		9.11
	(b) H.T. Temporary		-	-		0.08		0.08
	Total	588,740	2,962	2695895.8		990.86		990.86

ELECTRICITY DEPARTMENT - Goa
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
REVENUE AT EXISTING TARIFF
YEAR 2014-15 (Approved April 2014 to March 2015)

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Maximum Demand (KW/kVA)	Revenue (Rs Crs)			
					Demand Charges	Energy Charges	FPPCA Charges	Total
1	2	3	4	5	6	7	8	9
A. LOW TENSION SUPPLY								
1	(a) LTD/Domestic	478,893	728	1,634,435		136.80		136.80
	(b) LTD/L.I.G.	11,547	2	2,046		0.57		0.57
	(c) LTD Domestic Mixed	1,405	7	3,191		2.38		2.38
2	LTC/Commercial	89,081	268	277,265		100.95		100.95
3	(a) LTP/Motive Power	6,981	179	165,019		68.34		68.34
	(b) LTP Mixed (Hotel Industries)	148	5	4,569		2.82		2.82
	(c) LTP Ice Manufacturing	66	8	3,072		2.95		2.95
4	LTAG/Agriculture	11,145	25	61,326		4.25		4.25
5	(a) LTPL (Public lighting)	2,740	40	9,598		12.43		12.43
6	LTPWW/Public Water works	744	6	5,600		2.02		2.02
	Total	602,750	1,266	2,166,121		333.51		333.51
B. HIGH TENSION SUPPLY								
7	HT (Mixed)	168	134	74,767		58.68		58.68
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	37	565	111,840		197.96		197.96
9	HTI Industrial	396	607	240,374		251.30		251.30
10	HTAG (Agriculture)	41	6	8,258		1.44		1.44
11	EHTI (Industrial)	5	175	51,833		74.48		74.48
12	HT P.W.W. & Sewage system	35	137	90,796		52.95		52.95
13	HT. M.E.'s Defence Estt.	12	27	7,080		10.10		10.10
14	HTI (Steel Rolling)					12.57		12.57
15	HTI / IT High Tech	12	21	6,658		8.32		8.32
16	HTI/Ice Manufacturing	2	2	364		0.38		0.38
17	HTI Hotel Industry	110	137	41,559		54.48		54.48
	Total	818	1,811	633,529		722.66		722.66
C. TEMPORARY SUPPLY								
18	(a) L.T. Temporary	4,929	38	7,502		20.66		20.66
	(b) H.T. Temporary			-				0.00
	(C)Hoarding/Sign Board	104	0	523		0.09		0.09
	Total	608,601	3,114	2,807,675		1076.92		1076.92

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ELECTRICITY DEPARTMENT - Goa
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
REVENUE AT EXISTING TARIFF
YEAR 2015-16 (Actual Provisional April 2015 to March 2016)

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Maximum Demand (KW/kVA)	Revenue (Rs Crore)			
					Demand Charges	Energy Charges	FPPCA Charges	Total
1	2	3	4	5	6	7	8	9
	A. LOW TENSION SUPPLY							-
1	(a) LTD/Domestic	468,864	1,023	1,179,219	10	192	7	208.87
	0 - 100 units	225,971	113	453,464	3	12	1	15.47
	101 - 200 units	134,612	240	291,857	3	36	1	40.48
	201 - 400 units	80,819	299	266,147	3	62	2	67.24
	Above 400 Units	27,462	371	167,751	1	81	3	85.68
	(b) LTD/L.I.G.	2,177	2	205	0	0	0	0.49
	(c) LTD Domestic Mixed	4,282	14	12,458	0	5	0	4.96
	First 400 Units	1,436	6	4,261	0	2	0	1.98
	Above 400 Units	2,846	8	8,197	0	3	0	2.97
2	LTC/Commercial	87,641	311	289,337	4	131	5	139.30
	<u>0-20 KW Commercial consumers</u>	85,706	242	190,866	2	99	3	105.14
	0 - 200 units	65,660	42	100,152	1	11	1	12.17
	201 - 400 units	9,579	34	28,728	1	14	0	14.85
	Above 400 units	10,467	166	61,986	1	75	2	78.12
	<u>>20-70kW Commercial consumers</u>	1,888	64	64,135	1	30	1	32.11
	0 - 200 units	255	0	8,378	0	0	0	0.07
	201 - 400 units	133	0	4,152	0	0	0	0.17
	Above 400 units	1,500	64	51,605	1	30	1	31.88
	<u>>70kW Commercial consumers</u>	47	4	34,336	0	2	0	2.04
	0 - 200 units	3	0	300	0	0	(0)	0.00
	201 - 400 units	1	0	73	0	0	0	0.00
	401 - 800 units	43	4	33,963	0	2	0	2.04
	Above 800 Units	-	-	-	-	-	-	-
3	(a) LTP/Motive Power	6,050	87	103,851	5	30	1	35.98
	0 - 500 units	4,237	7	48,288	2	2	0	4.32
	Above 500 units	1,813	80	55,562	3	28	1	31.66
	(b) LTP Mixed (Hotel Industries)	190	7	4,451	0	3	0	3.27
4	LTAG/Agriculture	10,904	16	32,108	1	2	0	2.74
5	LTPL (Public lighting)	112	3	1,092	0	1	0	1.14
6	LTH/ Hoardings & Signboards	64	0.18	438	0	0	0	0.17
	Total	580,284	1,463	1,623,159	20	364	13	397
	B. HIGH TENSION SUPPLY							-
7	HT (Mixed)	96	56	36,971	9	26	2	37.76
8	HTD/Domestic	2	0	200	0	0	0	0.14
9	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	37	500	110,250	39	185	5	229.12
10	HTI Industrial	557	1,079	414,965	92	431	15	537.82
	Connected at 11 / 33 kV	553	940	373,415	82	379	13	474.41
	Connected at 110 kV	4	139	41,550	10	51	2	63.41
11	HTAG (Agriculture)	43	21	22,483	1	2	0	3.22
12	HT. M.E.'s Defence Estt.	11	25	6,430	1	10	1	12.25
	Total	746	1,681	591,299	142	654	24	820
	C. TEMPORARY SUPPLY							-
13	(a) L.T. Temporary	4,452	16	15,735	2	16	(0)	17.98
	Temporary - Domestic	406	0	742	0	0	(0)	0.44
	Temporary - Commercial	4,046	16	14,993	2	16	(0)	17.55
14	(b) H.T. Temporary	-	-	-	-	-	-	-
	Total	585,482	3,160	2,230,193	164	1,034	37	1,235

ELECTRICITY DEPARTMENT - Goa
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
REVENUE AT EXISTING TARIFF
YEAR 2016-17 H1 (Actual April 2016 to September 2016)

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Maximum Demand (KW/kVA)	Revenue (Rs Crore)			
					Demand Charges	Energy Charges	FPPCA Charges	Total
1	2	3	4	5	6	7	8	9
A	Low Tension Supply	586,905	810.81	2,634,074	14.82	224.76	13.05	252.62
1	Tariff LTD/Domestic and Non-Commercial	474,483	556.78	2,020,309	7.62	121.79	6.04	135.45
	0 - 100 units	201,191	71.54	419,339	2.56	10.63	0.55	13.75
	101 - 200 units	133,117	124.96	323,029	1.94	20.87	1.19	24.00
	201 - 300 units	64,115	119.80	262,690	1.23	24.38	1.11	26.72
	301- 400 units	38,770	82.99	169,583	0.92	20.05	0.99	21.96
	Above 400 Units	37,290	157.48	845,667	0.96	45.85	2.21	49.02
2	Tariff LTD/Low Income Group	2,693	2.91	246	0.04	0.29	0.01	0.34
3	Tariff-LTC/Commercial	91,890	176.99	318,636	2.89	76.62	4.02	83.52
	0 - 100 units	51,526	28.80	88,473	1.51	11.66	0.53	13.70
	101 - 200 units	14,444	12.47	35,178	0.39	4.68	0.25	5.33
	201-400 units	13,661	46.06	66,495	0.38	19.90	1.11	21.38
	Above 400 units	12,259	89.66	128,491	0.61	40.37	2.13	43.11
4	LTI-Industry	4,910	36.83	122,090	2.58	12.27	0.69	15.54
	0 - 500 units	3,554	6.72	52,082	1.10	1.85	0.13	3.08
	Above 500 units	1,356	30.12	70,008	1.48	10.42	0.56	12.46
5	Tariff-LTP/Mixed (Hotel Industries)	1,390	24.94	135,979	0.89	7.00	0.61	8.50
6	Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	10,865	8.42	34,024	0.35	0.95	0.00	1.29
7	Tariff-LTAG/Agriculture Allied (B)	207	0.36	704	0.01	0.05	0.00	0.06
8	Tariff-LTPL/Public Lighting	408	3.49	1,630	0.42	5.71	1.67	7.81
9	Tariff-LT Hoarding and SignBoard	59	0.09	455	0.02	0.09	0.00	0.12
								-
B	High Tension Supply	867	901.10	864,141	114.54	380.30	21.92	516.75
10	Tariff HTD/Domestic	2	0.12	200	0.01	0.05	0.00	0.07
11	Tariff HT-Commercial	167	31.67	63,147	8.10	16.40	0.97	25.47
12	Tariff HTI/Industrial	608	583.23	667,305	91.13	249.23	15.00	355.36
	Connected at 11 / 33 kV	603	489.95	594,999	80.25	211.30	12.09	303.64
	Connected at 110 kV	5	93.28	72,306	10.88	37.93	2.91	51.71
13	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	35	253.34	104,300	13.97	105.75	5.56	125.29
14	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	42	19.32	22,059	0.67	2.45	0.00	3.12
15	Tariff-HTAG/Agriculture (Allied Activities) (B)	1	0.72	250	0.01	0.13	-	0.14
16	H.T. MES/Defence Establishments	12	12.71	6,880	0.65	6.29	0.38	7.32
								-
C	Temporary Supply	3,757	7.01	13,011	0.83	6.52	0.27	7.62
17	Tariff-LTTS/Temporary Supply	3,756	6.96	12,661	0.82	6.49	0.27	7.58
	Tariff-LT/Temporary Domestic	353	1.06	1,183	0.06	0.64	0.01	0.71
	Tariff-LT/Temporary Commercial	3,403	5.90	11,478	0.76	5.85	0.26	6.87
18	Tariff-HTTS/Temporary Supply	1	0.04	350	0.01	0.03	-	0.04
								-
D	Single Point Supply	1	3.00	4,035	0.36	1.17	0.09	1.62
19	Residential Complexes	-	-	-	-	-	-	-
20	Commercial Complexes	1	3.00	4,035	0.36	1.17	0.09	1.62
21	Industrial Complexes	-	-	-	-	-	-	-
								-
	Total	591,530	1,721.92	3,515,261	131	613	35.32	778.62

ELECTRICITY DEPARTMENT - Goa
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
REVENUE AT EXISTING TARIFF
YEAR 2016-17 H2 (estimated October 2016 to March 2017)

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Maximum Demand	Revenue (Rs Crore)			
					Demand Charges	Energy Charges	FPPCA Charges	Total
1	2	3	4	5	6	7	8	9
A	Low Tension Supply	586,905	810.81	2,634,074	14.82	224.76	13.05	252.62
1	Tariff LTD/Domestic and Non-Commercial	474,483	557	2,020,309	7.62	121.79	6.04	135.45
	0 - 100 units	201,191	72	419,339	3	11	1	13.75
	101 - 200 units	133,117	125	323,029	2	21	1	24.00
	201 - 300 units	64,115	120	262,690	1	24	1	26.72
	301- 400 units	38,770	83	169,583	1	20	1	21.96
	Above 400 Units	37,290	157	845,667	1	46	2	49.02
2	Tariff LTD/Low Income Group	2,693	2.91	245.94	0.04	0.29	0.01	0.34
3	Tariff-LTC/Commercial	91,890	177	318,636	2.89	76.62	4.02	83.52
	0 - 100 units	51,526	28.80	88,473	1.51	11.66	0.53	13.70
	101 - 200 units	14,444	12.47	35,178	0.39	4.68	0.25	5.33
	201-400 units	13,661	46.06	66,495	0.38	19.90	1.11	21.38
	Above 400 units	12,259	89.66	128,491	0.61	40.37	2.13	43.11
4	LTI-Industry	4,910	37	122,090	2.58	12.27	0.69	15.54
	0 - 500 units	3,554	6.72	52,082	1.10	1.85	0.13	3.08
	Above 500 units	1,356	30.12	70,008	1.48	10.42	0.56	12.46
5	Tariff-LTP/Mixed (Hotel Industries)	1,390	24.94	135,979	0.89	7.00	0.61	8.50
6	Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	10,865	8.42	34,024	0.35	0.95	0.00	1.29
7	Tariff-LTAG/Agriculture Allied (B)	207	0.36	704	0.01	0.05	0.00	0.06
8	Tariff-LTPL/Public Lighting	408	3.49	1,630	0.42	5.71	1.67	7.81
9	Tariff-LT Hoarding and SignBoard	59	0.09	455	0.02	0.09	0.00	0.12
								-
B	High Tension Supply	867	901.10	864,141	114.54	380.30	21.92	516.75
10	Tariff HTD/Domestic	2	0.12	200	0.01	0.05	0.00	0.07
11	Tariff HT-Commercial	167	31.67	63,147	8.10	16.40	0.97	25.47
12	Tariff HTI/Industrial	608	583	667,305	91.13	249.23	15.00	355.36
	Connected at 11 / 33 kV	603	489.95	594,999	80.25	211.30	12.09	303.64
	Connected at 110 kV	5	93.28	72,306	10.88	37.93	2.91	51.71
13	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	35	253.34	104,300	13.97	105.75	5.56	125.29
14	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	42	19.32	22,059	0.67	2.45	0.00	3.12
15	Tariff-HTAG/Agriculture (Allied Activities) (B)	1	0.72	250	0.01	0.13	-	0.14
16	H.T. MES/Defence Establishments	12	12.71	6,880	0.65	6.29	0.38	7.32
								-
C	Temporary Supply	3,757	7.01	13,011	0.83	6.52	0.27	7.62
17	Tariff-LTTS/Temporary Supply	3,756	7	12,661	0.82	6.49	0.27	7.58
	Tariff-LT/Temporary Domestic	353	1	1,183	0.06	0.64	0.01	0.71
	Tariff-LT/Temporary Commercial	3,403	6	11,478	0.76	5.85	0.26	6.87
18	Tariff-HTTS/Temporary Supply	1	0.04	350	0.01	0.03	-	0.04
								-
D	Single Point Supply	1	3.00	4,035	0.36	1.17	0.09	1.62
19	Residential Complexes	-	-	-	-	-	-	-
20	Commercial Complexes	1	3.00	4,035	0.36	1.17	0.09	1.62
21	Industrial Complexes	-	-	-	-	-	-	-
								-
	Total	591,530	1,721.92	3,515,261	130.55	612.75	35.32	778.62

ELECTRICITY DEPARTMENT - Goa
TRUE-UP FOR FY 11-12, 12-13, APR for FY 15-16, FY 16-17 AND TARIFF DETERMINATION FOR FY 2017-18
REVENUE AT EXISTING TARIFF
YEAR 2016-17 (Estimated April 2016 to March 2017)

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Maximum Demand	Revenue (Rs Crore)			
					Demand Charges	Energy Charges	FPPCA Charges	Total
1	2	3	4	5	6	7	8	9
A	Low Tension Supply	586,905	1,622	2,634,074	29.63	449.53	26.09	505.25
1	Tariff LTD/Domestic and Non-Commercial	474,483	1,113.55	2,020,309	15	244	12	270.89
2	Tariff LTD/Low Income Group	2,693	5.82	246	0	1	0	0.68
3	Tariff-LTC/Commercial	91,890	353.98	318,636	6	153	8	167.04
4	LTI-Industry	4,910	73.67	122,090	5	25	1	31.09
5	Tariff-LTP/Mixed (Hotel Industries)	1,390	49.88	135,979	2	14	1	17.00
6	Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	10,865	16.84	34,024	1	2	0	2.59
7	Tariff-LTAG/Agriculture Allied (B)	207	0.72	704	0	0	0	0.11
8	Tariff-LTPL/Public Lighting	408	6.99	1,630	1	11	3	15.62
9	Tariff-LT Hoarding and SignBoard	59	0.19	455	0	0	0	0.23
								-
B	High Tension Supply	867	1,802.20	864,141	229	761	44	1,033.51
10	Tariff HTD/Domestic	2	0.23	200	0	0	0	0.14
11	Tariff HT-Commercial	167	63.34	63,147	16.19	32.80	1.94	50.93
12	Tariff HTI/Industrial	608	1,166.46	667,305	182.25	498.46	30.00	710.71
13	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	35	506.67	104,300	28	212	11	250.57
14	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	42	38.64	22,059	1	5	0	6.24
15	Tariff-HTAG/Agriculture (Allied Activities) (B)	1	1.43	250	0	0	-	0.27
16	H.T. MES/Defence Establishments	12	25.42	6,880	1	13	1	14.64
								-
C	Temporary Supply	3,757	14.02	13,011	2	13	1	15.24
17	Tariff-LTTS/Temporary Supply	3,756	13.93	12,661	2	13	1	15.16
	Tariff-LT/Temporary Domestic	353	2.12	1,183	0	1	0	1.42
	Tariff-LT/Temporary Commercial	3,403	11.81	11,478	2	12	1	13.73
18	Tariff-HTTS/Temporary Supply	1	0.09	350	0	0	-	0.08
								-
D	Single Point Supply	1	6.00	4,035	1	2	0	3.24
19	Residential Complexes	-	-	-	-	-	-	-
20	Commercial Complexes	1	6.00	4,035	1	2	0	3.24
21	Industrial Complexes	-	-	-	-	-	-	-
								-
	Total	591,530	3,443.85	3,515,261	261.10	1,225.49	70.65	1,557.24

ELECTRICITY DEPARTMENT - GOA

REVENUE AT EXISTING TARIFF for FY 2017-18

Sr. No.	Category of Consumer	No of Consumers	Energy Sale/ Demand	Contracted Maximum Demand (KW/kVA)	Fixed Demand Charges Units	Fixed Charge (Rs/kW Rs/kVA Rs/BHP)	Energy Charge (Rs/kWh)	FPPCA Charge (Rs/kWh)	Min. Charges	Revenue (Rs Crore)					Average Revenue (Rs/kWh)
										Fixed Charges	Energy Charges	Minimum Charges	FPPCA Charges	Total	
A	Low Tension Supply														
1	Tariff LTD/Domestic and Non-Commercial	486,985	924	1,354,057						15.97	254.56	-	28.85	299.38	3.24
1(a)	0-100 units	201,472	88	431,520	Rs./Connection/ Month	20.00	1.30	0.20		4.84	11.38		1.75	17.97	2.05
1(b)	101-200 units	142,759	203	309,169	Rs./Connection/ Month	20.00	1.90	0.22		3.43	38.64		4.47	46.54	2.29
1(c)	201 to 300 units	51,075	137	171,967	Rs./Connection/ Month	45.00	2.40	0.28		2.76	32.94		3.84	39.54	2.88
1(d)	301 to 400 units	51,075	137	171,967	Rs./Connection/ Month	45.00	3.10	0.35		2.76	42.55		4.80	50.11	3.65
1(e)	Above 400 units	40,604	358	269,434	Rs./Connection/ Month	45.00	3.60	0.39		2.19	129.05		13.98	145.22	4.05
2	Tariff LTD/Low Income Group	3,049	1	338	Rs./Connection/ Month	30.00	-	-		0.11	-		-	0.11	1.00
3	Tariff-LTC/Commercial	95,447	323	294,577		-	-			5.73	139.50	-	16.57	161.80	5.00
	<u>0-20 KW/Commercial Consumers</u>	<u>93,918</u>	<u>269</u>	<u>206,832</u>											
	1-100 Units	18,506	21	28,446	Rs./Connection/ Month	50.00	3.25	0.40		1.11	6.75		0.83	8.69	4.18
	101-200 units	18,506	21	28,446	Rs./Connection/ Month	50.00	3.90	0.47		1.11	8.10		0.98	10.19	4.90
	201-400 Units	12,569	141	61,085	Rs./Connection/ Month	50.00	4.30	0.49		0.75	60.84		6.93	68.52	4.84
	Above 400 units	44,337	86	88,855	Rs./Connection/ Month	50.00	4.70	0.60		2.66	40.57		5.18	48.41	5.61
	<u>>20-90Kw Commercial Consumers</u>	<u>1,529</u>	<u>54</u>	<u>87,745</u>											
	1-100 Units	70	0	2,234	Rs./Connection/ Month	50.00	3.25	0.40		0.00	0.05		0.01	0.06	3.93
	101-200 units	70	0	2,234	Rs./Connection/ Month	50.00	3.90	0.47		0.00	0.06		0.01	0.07	4.65
	201-400 Units	1,213	53	77,548	Rs./Connection/ Month	50.00	4.30	0.49		0.07	23.00		2.62	25.69	4.80
	Above 400 units	176	0	5,729	Rs./Connection/ Month	50.00	4.70	0.60		0.01	0.14		0.02	0.17	5.65
4	LTI-Industry	6,403	131	115,580						4.16	43.45	-	5.06	52.67	4.01
	0-500 Units	4,170	62	66,935	Rs./HP/Month	30.00	3.10	0.37		2.41	19.31		2.30	24.02	3.86
	Above 500 units	2,234	69	48,645	Rs./HP/Month	30.00	3.50	0.40		1.75	24.14		2.76	28.65	4.15
5	Tariff-LTP/Mixed (Hotel Industries)	222	5	4,285	Rs./kW/Month	30.00	4.50	0.51		0.15	2.17		0.25	2.57	5.33
6	LT-Agriculture	10,821	24	34,481		-	-			0.50	3.13	-	-	3.63	1.52
	Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	10,619	23	33,782	Rs./HP/Month	12.00	1.30	-		0.49	2.98		-	3.46	1.51
	Tariff-LTAG/Agriculture Allied (B)	202	1	699	Rs./HP/Month	20.00	1.60	-		0.02	0.16		-	0.17	1.77
7	Tariff-LTPL/Public Lighting	2,740	37	9,598	Rs./kW/Month	40.00	3.90	0.42		0.46	14.41		1.55	16.42	4.44
8	Tariff-LT Hoarding and SignBoard	104	0	35	Rs./kVA/Month	60.00	9.90	1.05		0.00	0.35		0.04	0.39	11.02

ELECTRICITY DEPARTMENT - GOA

REVENUE AT EXISTING TARIFF for FY 2017-18

Sr. No.	Category of Consumer	No of Consumers	Energy Sale/ Demand	Contracted Maximum Demand (KW/kVA)	Fixed Demand Charges	Fixed Charge (Rs/kW Rs/kVA Rs/BHP)	Energy Charge (Rs/kWh)	FPPCA Charge (Rs/kWh)	Min. Charges	Revenue (Rs Crore)					Average Revenue (Rs/kWh)
					Units					Fixed Charges	Energy Charges	Minimum Charges	FPPCA Charges	Total	
						-	-								-
B	High Tension Supply					-	-								-
9	Tariff HTD/Domestic	2	0	193	Rs./kVA/Month	150.00	4.40	0.61		0.03	0.12		0.02	0.17	6.30
10	Tariff HT-Commercial	116	76	42,567	Rs./kVA/Month	250.00	5.50	0.77		12.77	41.86		5.86	60.48	7.95
11	Tariff HTI/Industrial	645	1,346	417,220	Rs./kVA/Month	-	-	-		125.17	577.28	-	74.87	777.32	5.78
	Connected at 11/33 kV	640	1,204	346,336	Rs./kVA/Month	250.00	4.30	0.55		103.90	517.54		66.20	687.64	5.71
	Connected at 110 kV	5	142	70,884	Rs./kVA/Month	250.00	4.20	0.61		21.27	59.74		8.68	89.68	6.31
12	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	37	572	114,756	Rs./kVA/Month	250.00	4.30	0.52		34.43	245.89		29.74	310.05	5.42
13	HT-Agriculture	41	6	8,378		-	-	-		0.35	0.86	-	-	1.21	2.00
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	40	6	8,284	Rs./kVA/Month	35.00	1.40	-		0.35	0.82		-	1.17	1.99
	Tariff-HTAG/Agriculture (Allied Activities) (B)	1	0	94	Rs./kVA/Month	50.00	1.80	-		0.01	0.04		-	0.04	2.06
14	H.T. MES/Defence Establishments	12	27	7,080	Rs./kVA/Month	175.00	5.00	0.59		1.49	13.45		1.59	16.52	6.14
						-	-	-							-
C	Temporary Supply					-	-								-
15	Tariff-LT/Temporary Domestic	2,581	22	1,098	Rs./kW/Month	60.00	7.00	0.74		0.08	15.46		1.63	17.17	7.78
16	Tariff-LT/Temporary Commercial				Rs./kVA/Month	100.00	9.90	1.05		-	-		-	-	
17	Tariff-HTTS/Temporary Supply				Rs./kVA/Month	120.00	9.90	-		-	-		-	-	
						-	-	-							-
D	Single Point Supply					-	-								-
18	Residential Complexes				Rs./kVA/Month	100.00	3.10	-		-	-		-	-	
19	Commercial Complexes				Rs./kVA/Month	200.00	4.30	-		-	-		-	-	
20	Industrial Complexes				Rs./kVA/Month	200.00	3.90	-		-	-		-	-	
						-	-	-							-
	Total	609,207	3,495	2,404,243						201.41	1,352.47	-	166.03	1,719.91	4.92

ELECTRICITY DEPARTMENT - GOA

REVENUE AT PROPOSED TARIFF for FY 2017-18

Sr. No.	Category of Consumer	No of Consumers	Energy Sale/ Demand (MUs)	Contracted Maximum Demand (KW/kVA)	Fixed Demand Charges	Fixed Charge (Rs/kW Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)	FPPCA Charge (Rs/kWh)	Revenue (Rs Crore)					Average Revenue (Rs/kWh)
									Units	Fixed Charges	Energy Charges	Minimum Charges	FPPCA Charges	
A Low Tension Supply														
1	Tariff LTD/Domestic and Non-Commercial	486,985	924	1,354,057					15.97	254.56	-	28.85	299.38	3.24
1(a)	0-100 units	201,472	88	431,520	Rs./Connection/ Month	20.00	1.30	0.20	4.84	11.38		1.75	17.97	2.05
1(b)	101-200 units	142,759	203	309,169	Rs./Connection/ Month	20.00	1.90	0.22	3.43	38.64		4.47	46.54	2.29
1(c)	201 to 300 units	51,075	137	171,967	Rs./Connection/ Month	45.00	2.40	0.28	2.76	32.94		3.84	39.54	2.88
1(d)	301 to 400 units	51,075	137	171,967	Rs./Connection/ Month	45.00	3.10	0.35	2.76	42.55		4.80	50.11	3.65
1(e)	Above 400 units	40,604	358	269,434	Rs./Connection/ Month	45.00	3.60	0.39	2.19	129.05		13.98	145.22	4.05
2	Tariff LTD/Low Income Group	3,049	1	338	Rs./Connection/ Month	30.00	-	-	0.11	-		-	0.11	1.00
3	Tariff-LTC/Commercial	95,447	323	294,577		-	-		5.73	139.50	-	16.57	161.80	5.00
	<u>0-20 KW/Commercial Consumers</u>	<u>93,918</u>	<u>269</u>	<u>206,832</u>										
	1-100 Units	18,506	21	28,446	Rs./Connection/ Month	50.00	3.25	0.40	1.11	6.75		0.83	8.69	4.18
	101-200 units	18,506	21	28,446	Rs./Connection/ Month	50.00	3.90	0.47	1.11	8.10		0.98	10.19	4.90
	201-400 Units	12,569	141	61,085	Rs./Connection/ Month	50.00	4.30	0.49	0.75	60.84		6.93	68.52	4.84
	Above 400 units	44,337	86	88,855	Rs./Connection/ Month	50.00	4.70	0.60	2.66	40.57		5.18	48.41	5.61
	<u>>20-90Kw Commercial Consumers</u>	<u>1,529</u>	<u>54</u>	<u>87,745</u>										
	1-100 Units	70	0	2,234	Rs./Connection/ Month	50.00	3.25	0.40	0.00	0.05		0.01	0.06	3.93
	101-200 units	70	0	2,234	Rs./Connection/ Month	50.00	3.90	0.47	0.00	0.06		0.01	0.07	4.65
	201-400 Units	1,213	53	77,548	Rs./Connection/ Month	50.00	4.30	0.49	0.07	23.00		2.62	25.69	4.80
	Above 400 units	176	0	5,729	Rs./Connection/ Month	50.00	4.70	0.60	0.01	0.14		0.02	0.17	5.65
4	LTI-Industry	6,403	131	115,580		-	-		4.16	43.45	-	5.06	52.67	4.01
	0-500 Units	4,170	62	66,935	Rs./HP/Month	30.00	3.10	0.37	2.41	19.31		2.30	24.02	3.86
	Above 500 units	2,234	69	48,645	Rs./HP/Month	30.00	3.50	0.40	1.75	24.14		2.76	28.65	4.15
5	Tariff-LTP/Mixed (Hotel Industries)	222	5	4,285	Rs./kW/Month	30.00	4.50	0.51	0.15	2.17		0.25	2.57	5.33
6	LT-Agriculture	10,821	24	34,481		-	-		0.50	3.13	-	-	3.63	1.52
	Tariff-LTAG/Agriculture (Pump Sets/Irrigation) (A)	10,619	23	33,782	Rs./HP/Month	12.00	1.30	-	0.49	2.98		-	3.46	1.51
	Tariff-LTAG/Agriculture Allied (B)	202	1	699	Rs./HP/Month	20.00	1.60	-	0.02	0.16		-	0.17	1.77

ELECTRICITY DEPARTMENT - GOA

REVENUE AT PROPOSED TARIFF for FY 2017-18

Sr. No.	Category of Consumer	No of Consumers	Energy Sale/ Demand (MUs)	Contracted Maximum Demand (KW/kVA)	Fixed Demand Charges Units	Fixed Charge (Rs/kW Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)	FPPCA Charge (Rs/kWh)	Revenue (Rs Crore)					Average Revenue (Rs/kWh)
									Fixed Charges	Energy Charges	Minimum Charges	FPPCA Charges	Total	
7	Tariff-LTPL/Public Lighting	2,740	37	9,598	Rs./kW/Month	40.00	3.90	0.42	0.46	14.41		1.55	16.42	4.44
8	Tariff-LT Hoarding and SignBoard	104	0	35	Rs./kVA/Month	60.00	9.90	1.05	0.00	0.35		0.04	0.39	11.02
B High Tension Supply														
9	Tariff HTD/Domestic	2	0	193	Rs./kVA/Month	150.00	4.40	0.61	0.03	0.12		0.02	0.17	6.30
10	Tariff HT-Commercial	116	76	42,567	Rs./kVA/Month	250.00	5.50	0.77	12.77	41.86		5.86	60.48	7.95
11	Tariff HTI/Industrial	645	1,346	417,220	Rs./kVA/Month	-	-	-	125.17	577.28		74.87	777.32	5.78
	Connected at 11/33 kV	640	1,204	346,336	Rs./kVA/Month	250.00	4.30	0.55	103.90	517.54		66.20	687.64	5.71
	Connected at 110 kV	5	142	70,884	Rs./kVA/Month	250.00	4.20	0.61	21.27	59.74		8.68	89.68	6.31
12	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	37	572	114,756	Rs./kVA/Month	250.00	4.30	0.52	34.43	245.89		29.74	310.05	5.42
13	HT-Agriculture	41	6	8,378		-	-	-	0.35	0.86		-	1.21	2.00
	Tariff-HTAG/Agriculture (Pump Sets/Irrigation) (A)	40	6	8,284	Rs./kVA/Month	35.00	1.40	-	0.35	0.82		-	1.17	1.99
	Tariff-HTAG/Agriculture (Allied Activities) (B)	1	0	94	Rs./kVA/Month	50.00	1.80	-	0.01	0.04		-	0.04	2.06
14	H.T. MES/Defence Establishments	12	27	7,080	Rs./kVA/Month	175.00	5.00	0.59	1.49	13.45		1.59	16.52	6.14
C Temporary Supply														
15	Tariff-LT/Temporary Domestic	2,581	22	1,098	Rs./kW/Month	60.00	7.00	0.74	0.08	15.46		1.63	17.17	7.78
16	Tariff-LT/Temporary Commercial				Rs./kVA/Month	100.00	9.90	1.05	-	-		-	-	#DIV/0!
17	Tariff-HTTS/Temporary Supply				Rs./kVA/Month	120.00	9.90	-	-	-		-	-	#DIV/0!
D Single Point Supply														
18	Residential Complexes				Rs./kVA/Month	100.00	3.10	-	-	-		-	-	#DIV/0!
19	Commercial Complexes				Rs./kVA/Month	200.00	4.30	-	-	-		-	-	#DIV/0!
20	Industrial Complexes				Rs./kVA/Month	200.00	3.90	-	-	-		-	-	#DIV/0!
	Total	609,206.60	3,494.72	2,404,243.03					201.41	1,352.47	-	166.03	1,719.91	4.92

Electricity Department

Government of Goa

Accounting Policies for Preparation of Proforma Accounts

[F.Y. 2012-2013]

1) General :

The Proforma Accounts has been prepared as per the Provision of General Financial Rule and Government Accounting Rule and the instruction issued by the Finance Department, Govt. of Goa and the office of the Accountant General (Audit), Goa, from time to time. The information required for the finalization of Proforma Accounts has been obtained from the Sub-offices of this Department where the transactions are maintained on cash basis of accounting system.

It may be noted that the Electricity Department still continues to be a department of the Government of Goa and therefore as of date still continues to maintain its books of accounts as per the Government system of accounting. This would continue to be the case, till such time the EDG is corporatized into a separate entity. Therefore, the Financial Statements have been prepared solely for the purposes of complying with the JERC's directives and must be read and interpreted in that context. Hence such Financial Statements have been prepared on commercial principles as directed by JERC.

As the base documents for preparation of Financial Statements are maintained on cash basis which are audited by the state unit of Comptroller and Auditor General, the same are adjusted to reflect the accrual basis of accounting and other adjustments required for conforming to Generally Accepted Accounting Principles.

2) Stock Suspense :

The Department is having centralized bulk material procurement Division. Most of the Material Procurement is made by the Div. II (Stores), Margao and then issued to the other Divisions/Offices of the Department as per the requisition indent, by raising the Debit note against the Division/Office. The debits raised on the Divisions are cleared by debiting final head of Accounts of Expenditure. All these transactions are booked under Stock Suspense.

Inventories, stores and spares are valued at cost. Further the closing inventory as on year end lying with the divisions is added back to the inventory by reversing the consumption.

3) Fixed Assets & Depreciation :

Fixed assets are taken at historical cost and include expenses incurred on purchase, expenditure incurred on account of addition, improvement and renewal is capitalized and repairs and maintenance is charged to revenue. The expenditure incurred on Apprentice Training is Capitalized.

The Depreciation on Fixed Assets has been provided as per the method and rate of depreciation prescribed by Joint Electricity Regulatory Commission/Central Electricity Regulatory Commission regulations.

4) Provision For Doubtful Debtors :

The Department is making a provision for Doubtful Debtors at the rate of 1% on Sundry Debtors as per the regulation of Joint Electricity Regulatory Commission.

5) Provision For Audit Fees :

The amount to be kept as provision for audit fees payable in the Proforma Accounts of the Department is intimated by the office of the Accountant General (Audit) Goa.

6) Taxation :

The department has incurred loss during the year, hence no Provision is made for income tax liability by the Department in the Proforma Accounts of the Electricity Department.

7) Loans from PFC and REC :

The Loan from REC and PFC are granted to Government of Goa and not directly to the electricity Department. The same has been granted to Electricity Department by way of Budgetary Grants. The payment of principal and interest amount of these loans are made by the Government of Goa and hence not accounted in the Proforma Accounts of Electricity Department, Government of Goa.

8) Miscellaneous Receipts :

All receipts other than receipts from sale of power, U.I. Charges, power exchange and trading of power are accounted as "Miscellaneous receipts" in the Proforma Accounts on cash basis.

9) Non Provision of Leave Encashment and Gratuity in Final Accounts :

The staff of the Electricity Department draw their leave salary during the spell of leave from the Salary Head (Budget Head) of the department. Similarly on retirement the encashment of earned leave/half pay leave and gratuity as admissible to the employees are paid out of

salary head of budget from their department, which is adequately reflected/debited to Profit and Loss account in the Proforma Accounts as and when such Payments are made. Hence no provision for leave salary and gratuity has been made in the Proforma Accounts.

10) Provision for Pension :

The department has revised the provision for pension as per the existing rules as applicable to Government employees on deputation and accordingly provision for pension has been made in the Proforma Accounts for year 2012-13.

Place : Panaji, Goa

Date : _____

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Electricity Department

Government of Goa

NOTES TO ACCOUNTS

[F.Y. 2012-2013]

1. **Loan from REC and PFC :**

The Loans obtained from Power Finance Corporation [PFC] are not accounted in the Proforma Accounts, as such Loans are granted to Government of Goa and the payments of principal and interest amount of these loans are made by the Government of Goa.

For the Year 2012-13, the Government of Goa has paid ` 7.99 crores towards interest and ` 12.82 crores towards Principal amount to PFC.

2. **Miscellaneous Receipts :**

All receipts other than receipts from Sale of Power, U.I. Charges, Power exchange and trading of power are accounted as "Miscellaneous receipts" in the Proforma Accounts. Such Miscellaneous Receipts include Wheeling Charges, STOA, Interest on Bonds, Scrap Sold, etc. Interest on Bonds received by the Department during the year is ` 3.92 Lacs. These Miscellaneous receipts include the items which are collected during the year along with recovery of overpayment of previous year represented in B/s -7A, which is accounted on cash basis.

3. **Audit Fees Payable :**

The Provision for the CAG Audit fees payable will be made as per the instructions issued by the office of the Accountant General (Audit), Goa. However till the date of preparation of accounts, instructions from CAG office for the provision of fees has not been received.

4. **Investments :**

The Department has not recorded Investment in Bonds of Housing and Urban Development Corporation Ltd., NPCIL as the same was not purchased by department but were compensated for very old arrears of wheeling charges receivable by department. However interest received on such bonds is accounted in Miscellaneous Revenue.

5. **Depreciation :**

The Depreciation on Fixed Assets has been provided as per the method and rate of depreciation prescribed by Joint Electricity Regulatory Commission/Central Electricity Regulatory Commission regulations.

The Department is providing depreciation on pro rata basis from the date of purchase or commissioning, at the rate of depreciation approved by JERC/CERC.

6. Provision for Leave encashment :

The staff of the Electricity Department draw their leave salary during the spell of leave from the Salary Head (Budget Head) of the department. Similarly on retirement the encashment of earned leave/half pay leave as admissible to the employees are paid out of salary head of budget from their department, which is adequately reflected/debited to Profit and Loss account in the Proforma Accounts as and when such Payments are effected. Hence no provision for leave salary contribution has been made in the Proforma Accounts.

7. Advances/Payables to Suppliers and Contractors :

The details of Advances given to Suppliers and Contractors and Payables to Suppliers and Contractors as furnished by the concerned Divisions, have been accounted in the Proforma Accounts.

8. Pension liability of Employees under New Pension Scheme :

As regards to employees who are covered under New Pension Scheme, it is stated that the Government contributes 10% of B.P. + D.A. towards New Pension Scheme through the monthly salary bill of the employees which is reflected in Salaries and other allowances schedule IE-2 and there is no pension liability on Department and hence no provision is made in the Proforma Accounts for Pension contribution for employees covered under New Pension Scheme. The No. of employees are 3685 for whom pension contribution of ₹ 6.10 Crores is made in accounts and the no. of employees which are covered under new pension scheme in respect of whom pension contribution is not made in accounts is 1092.

9. Revenue from Power Exchange :

Revenue from Power Exchange is earned by department from excess power available by offering the same to other states through traders or mediators, and the same has been disclosed separately in Monthly Accounts prepared by divisions and not clubbing with collection from sale of power. Hence the same has been considered separately in Proforma Accounts. The amount of revenue from power exchange for the year is ₹ 12.08 crores.

10. Sundry Debtor :

Sundry Debtors are calculated based on the following formula : Opening Balance + Billing for the year (Energy Charges & Meter Rent) – Collection during the year. Billing for the year has been considered from DCB Statement (Demand, Collection & Balance Statement) prepared by divisions of the Department. Collection for the year has been taken from the amount remitted to Treasury after carrying out the transfer entries.

11. Power Purchase :

Power Purchase cost is accounted on accrual basis after netting of any rebate allowed by the suppliers. It also includes UI Charges incurred by the department. Amount payable on account of power purchase is subject to confirmation from the supplier, as the same has been accounted on the basis of data confirmed by the department.

12. U.I. Charges :

U.I. Charges Receivable as at 31st March 2013 of ` 151.39 Lacs (Old Arrears) by Division III, has been wrongly entered in DCB statements since 2002-2003, however such has been removed from DCB Statements of 2009-10, in the absence of proper information such Balance has not been written off in accounts, But the same has been eliminated by division III from DCB Statement. Also U.I. Charges for the year 2012-13 has been recognized as per reconciliation statements maintained at department.

There is collection of Rs. 78.38 lacs during the year on account of Reactive charges , Interest on bonds etc. which was misclassified under the head collection of UI charges (0801-05-101-03), which is now been rectified and transferred to other receipts (0801-05-80-800-81). Further during the previous year UI Charges of Rs. 52.85 lacs was erroneously recorded which is now rectified and adjusted towards UI charges of current year.

13. Loans & Advances :

Loans & Advances includes Commitment Advance of ` 2 Crores which is given to Akaltara Power Limited, a wholly owned subsidiary of Power Finance Corporation Limited which is a Government of India Undertaking. Such Commitment Advance is given for the Power allocated to Goa from Chattisgarh, UMPP, and such advance is refundable to the Department. Further any advances paid to power suppliers or any prepaid portion of commission to banks on account LCs are disclosed under this head.

14. Electricity Development Fund :

From 2008-09, onwards department has levied electricity duty through its billing on the units consumed by the consumers and collected such amount for Power Infrastructure Development Scheme. The department will spend such amount collected from consumers for Infrastructure Development of Power Sector.

Accordingly, Department has created Electricity Development Fund and such fund is brought into books on the basis of amount collected from consumers towards Electricity Duty. Amount Collected during the year on account of Electricity Duty is remitted to Treasury and when some infrastructure activity relating to power sector is proposed such amount is utilized only for that infrastructure development purpose. Hence such fund represent the amount accumulated after due reconciliation of the amount collected from consumers and transferred to the fund, as proposed by Joint Director of Accounts, EDG by way of transfer entries.

Fund related to depreciable assets is treated as deferred income which is recognized in the profit and loss statement on a systematic and rational basis over the

useful life of the asset. Such allocation to income is usually made over the periods and in the proportions in which depreciation on related assets is charged.

Electricity Duty Transferrable to Fund Shown in B/S – 15D is tabulated below :

	Year 2011-12	Year 2012-13
(i) Electricity Duty Billed	118,39,24,559	135,31,06,575
(ii) Electricity Duty Collected (out of billed in (i) above, amount collected and shown in demand no. 76 i.e. Treasury Reconciled Figures)	103,15,46,123	129,45,24,568
(iii) Amt. Transferred to Electricity Development Fund - 8229 (The amount transferred to fund shown here is out of the amount collected in (ii) above & short transfer of previous years)	52,48,52,000	143,26,64,000
(iv) Amt Transferrable to Electricity Development Fund [i – iii]	65,90,72,559	(7,95,57,425)
(v) Cumulative Amt. Transferrable to Electricity Development Fund = [Cumulative amt transferrable till previous year + Electricity duty billed during current year – Amt. transferred during current year]	83,36,26,268	75,40,68,843

15. Deposits with Bank :

Deposit with Bank include amount deposited with Bank on account of Margin Money for Issue or Renewal of Letter of Credits.

16. Material at site :

Material lying at site of various divisions, which is not consumed till the end of the year has been added back to the Closing Stores of the Department.

17. Closing Balances :

Closing Balances as at 31st March, 2013 of all Personal Accounts such as Suppliers of Power & Material, Contractors, Consumers, Deposit Holders are subject to confirmation.

18. Contingent Liabilities :

Details of Unexpired Letters of Credits (L/Cs) are as follows :

Name of the Generating Station	Value of the L/C As on 31.03.2013 (in Crores)	Expiry Date
NTPC – WR (Mumbai)	₹ 51.30	30-June-2013
NTPC – WR (Mumbai)	₹ 1.11	31-Dec-2013
PGCIL – SR (Bangalore)	₹ 2.31	30-June-2013
PGCIL – WR (Nagpur)	₹ 7.14	30-June-2013
NPCIL (Tarapur)	₹ 1.58	30-June-2013
NPCIL (Tarapur)	₹ 0.40	31-July-2013
NPCIL (Kakrapur)	₹ 2.15	30-June-2013
POSOCO,SRLDC (Bangalore)	₹ 0.90	30-June-2013
POSOCO,WRLDC (Mumbai)	₹ 0.06	30-June-2013
POSOCO,SRLDC (Bangalore)	₹ 0.05	30-June-2013
MSETCL (Mumbai)	₹ 0.44	30-June-2013
Ratnagiri Gas & Power Pvt Ltd.	₹ 9.27	30-June-2013
Total	₹ 76.71	

19. Fixed Assets :

Addition to Fixed Assets has been taken from Fixed Assets Register. It covers the assets which are commissioned during the year and the total cost incurred on such assets till the date of commission, however component of cost incurred specifically during the year 2012-13 is not available in the register.

The assets has been considered retired as per JERC norms of estimated life for each type of assets, but as the exact details regarding date of purchase and value were not clearly maintained at the divisions/subdivisions, thus the value deducted as assets written of is only a derived value.

20. Operating Stores :

Value of operating stores have been arrived at by considering opening balance as on 1st April 2012 as increased by procurements during the year at cost along with Material lying at site of various divisions at the end of the year and reduced by issues to other divisions. Purchases of stores department are accounted on payment basis in the absence of information pertaining to outstanding creditors of stores department. Closing balance of Stores as on 31st March, 2013 is of ₹ 25.41 crores, which is subject to physical verification.

Division II (Central Stores Department) has been issuing stores, which are in nature of consumables (Revenue Expenses) & also for commissioning in Fixed Assets.

During the year 2012-13, stores worth ` 27.03 crores has been issued, which are to be booked as revenue expenditure or capital expenditure depending on the nature of consumption.

In the absence of proper records maintained by stores division, department is not able to get the breakup of stores used as consumables & stores capitalized out of ` 27.03 crores & hence this expenditure is still to be booked properly in proforma accounts.

21. Government Current Account :

The Government Current Account shown on the asset side of balance sheet represents cumulative balance of amounts remitted into treasury over the years collected on account of sale of power, U.I. Charges, Miscellaneous Receipts etc. after deducting the amount withdrawn from treasury for expenditure incurred of revenue nature like Direction and administration, for purchase of stores, other expenditure of like nature, further from F.Y. 2008-09 onwards routing of expenditure incurred on Infrastructure development through electricity duty is carried through this account, since the electricity duty which is collected from the consumers specifically for infrastructure development of power sector, is remitted to treasury.

22. Unpaid Salaries/Wages :

Each division has some value of cash balance available with them at the year end on account of unpaid salaries/wages or allowance to employees of the department, which is considered as petty cash available with divisions on account of unpaid salaries or allowance or the like nature, hence shown as cash in hand at year end with various divisions. Further Unpaid Salaries/wages include provision towards the salaries payable to employees for the month of March 2013.

23. Capital Work in Progress :

Capital work in Progress includes ` 35.25 Crores which is actual amount incurred on infrastructure development through electricity duty, arrived from monthly accounts of department prepared at divisional level. Annexure – II represent the amount of ` 143.26 Crores under Major Head 4801-05-800-02-53 "Infrastructure development through electricity duty" which has been recorded by way of transfer entry only. It is to be noted that Annexure – II does not form part of accounts, it has been presented to show the amounts recorded under various heads in State Accounts pertaining to Electricity Department.

24. Capital Outlay :

Total capital outlay by electricity department is represented in Schedule B/S-9 to the accounts. Which represents the actuals collected and remitted to treasury and total withdrawals from treasury on account of revenue and capital expenditures carried out during the respective period. Such schedules does not form part of the accounts but presented only to work out interest on capital if any to be provided in accounts.

25. Interest on Consumer Security Deposits :

Interest on consumers security deposits is provided as per the instructions of JERC on the basis of prevailing Bank Rate @ 9.5% p.a.

26. Deferred Income :

Deferred income is recognized out of the depreciation pertaining to assets which have been specifically created out of electricity development fund. As per Fixed Assets Register the assets which have been commissioned during the year out of electricity development fund (head 8229-00-110-01) amounts to Rs. 25.06 crores and depreciation pertaining to such assets amounts to Rs. 0.47 crores. Such allocation to income is usually made over the periods and in the proportions in which depreciation on related assets is charged.

Assets Commissioned during F.Y. out of Electricity Development Fund	Cost of Assets Commissioned during respective F.Y. (Rs. in Crores)	Depreciation for Current F.Y. 2012-13 (Rs. In Crores)
FY 2011-12	16.64	0.79
FY 2012-13	25.06	0.47
Total	41.70	1.26

27. Loss incurred during the year is met by budgetary support from the Government of Goa.

28. B/S-1 represents sort of Equity Capital of Government of Goa in Electricity Department.

29. B/S-15E is for representation purpose only. Income earned/Expense incurred on account of UI charges have been recognized in Income & Expenditure account and Closing Receivable/Payable have been recognized in Balance Sheet.

30. Department has received Bank Guarantees from HT Consumers towards their HT Connections. The total amount of Bank Guarantees as on 31/03/2013 amounts to Rs. 92.16 Crores.

31. The previous year figures have been regrouped or reclassified in the financial statements wherever required. Also Reference to schedules annexed have been changed wherever required.

Place : Panaji, Goa

Date : _____

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Electricity Department,
Government of Goa**

Proforma Accounts For the Year 2012-2013			
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ELECTRICITY DEPARTMENT , GOVERNMENT OF GOA.**STATEMENT OF FINANCIAL RESULTS FOR THE YEAR 2012-2013**

Sr. No.	Particulars	(Amount in `)
1	Financial Year	April 12 to March 13
2	Name of the Undertaking	Electricity Department, Govt. of Goa
3	Year of Commencement of the Department	1962 - 1963
4	Period of Accounts	April 12 to March 13
5	Government Capital Accounts	11968852919
6	Block Assets of Depreciation cost	5994252865
7	Cummulative Depreciation	2174163873
8	Turn Over	10199101620
9	Net Profit	0
10	Net Losses	-2641902486
11	Interest on Capital	0
12	Total Returns	-2641902486
13	Percentage of Returns on Capital	-22%

ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA		
Trial Balance for the year ended 31st March 2013		
(Amount in `)		
Particulars	Closing Balances	
	Debit	Credit
Accumulated Capital Reserve		2,17,92,902
Revenue Reserve		1,27,64,11,293
Reserve for Baddebts		18,07,78,069
Electricity Development Fund		4,66,26,36,984
Security Deposit		1,06,58,20,448
Govt. Capital Account		11,96,88,52,919
Sundry Creditors		1,67,52,76,545
U.I. Charges Payable		61,71,266
Audit fees payable		35,39,124
Interest on capital payable		2,76,71,80,215
Provision for pension payable		70,98,55,528
Payable to Contractors/Suppliers		5,41,37,128
Professional Fees Payable		68,00,000
Amount transferable to Electricity Dev. Fund		75,40,68,843
Interest payable on security deposits		4,50,49,402
Unpaid Salaries/wages		11,31,58,718
Fixed Assets	8,16,84,16,738	
Accumulated Depreciation of Assets		2,17,41,63,873
Capitalised Estt. Expenditure	2,76,31,753	
Sundry Debtors	2,61,74,01,317	
Loans & Advances	2,43,70,609	
Deposit with Bank	5,50,10,757	
Advances to Contractors	17,44,494	
Electricity Duty Receivable	35,73,84,832	
Govt. Current Account	11,08,60,49,132	
Capital Work in progress	4,87,24,02,996	
U.I. Charges Receivable	2,09,07,516	
Cash in hand	1,91,715	
Stock in hand	25,41,81,399	
Sales of Power		9,77,31,04,178
Revenue from Power Exchange		12,08,46,085
Purchases of Power	10,45,21,62,042	
U.I. Charges (income)		20,68,25,410
Miscellaneous receipts		8,56,78,435
Deferred Income (Electricity Dev. Fund)		1,26,47,512
Administrative & General Expenses	22,27,40,148	
Depreciation	35,44,98,521	
Maintaince & Distribution Expenses	19,16,48,145	
Provision for Baddebts	2,61,74,013	
Salaries and Allowances	1,54,62,65,238	
Interest on Security Deposits	2,88,16,581	
Interest & Finance Charges	1,86,99,418	
Profit and Loss Account		2,64,19,02,486
Grand Total	40,32,66,97,364	40,32,66,97,364

ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA PROFORMA ACCOUNT FOR THE YEAR 2012-13 B A L A N C E S H E E T A S A T 31-03-2013							
(Amount in `)							
Previous year Corresponding figures 2011-12	LIABILITIES	Details for the year 2012-13	Progressive figures for the year 2012-13	Previous year Corresponding figures 2011-12	ASSETS	Details for the year 2012-13	Progressive figures for the year 2012-13
	GOVT. CAPITAL ACCOUNT				ASSETS		
10,18,73,29,793	1. Opening Balance	11,34,99,72,828		5,95,49,71,115	1. Opening Balance	6,93,69,33,494	
1,16,26,43,035	Add: Capital Expenditure for 2011-12 (Sc. B/S-1)	61,88,80,091	11,96,88,52,919	1,01,40,16,801	Add: Assets acquired (Sc.B/S-12)	1,25,81,25,806	
11,34,99,72,828				(3,20,54,423)	Less: Assets retiring during the year(Sc. B/S-12)	(2,66,42,562)	
2,12,82,371	RESERVE & SURPLUS A/C.	2,12,82,371		6,93,69,33,494	(A) TOTAL	8,16,84,16,738	
	1. Opening Balance of Capital Reserve		2,17,92,902				
-	Add: Accumulated Capital Reserve for the consumers (Sc.B/S-2)	5,10,531					
2,12,82,371							
2,72,00,22,460	2. Electricity Development Fund	3,24,26,20,496					
52,25,98,036	Add : Addition during the year (Sc. B/S-15C)	1,42,00,16,488	4,66,26,36,984				
3,24,26,20,496							
7,57,62,35,460	3. Opening Balance of Revenue Reserve (Sc. B/S - 2)	3,91,83,13,779		1,55,08,77,181	DEPRECIATION ACCOUNT		
(3,65,79,21,681)	Less: Loss for the year	(2,64,19,02,486)	1,27,64,11,293		1. Accumulated depreciation (Opening Balance)	1,84,63,07,914	
3,91,83,13,779				32,74,85,156	Add: Depreciation of current year(Sc.B/S-13)	35,44,98,521	
	RESERVE FOR BAD DEBT			(3,20,54,423)	Less: Depreciation of assets retiring during the year	(2,66,42,562)	
12,92,00,196	1. Opening Balance	15,46,04,056		1,84,63,07,914	(B) TOTAL	2,17,41,63,873	
2,54,15,790	Add: Provision during the year (Sc. B/S-3)	2,61,74,013					
(11,930)	Less : Bad Debts Written off	-	18,07,78,069				
76,74,19,865	CURRENT LIABILITIES			5,09,06,25,580	NET VALUE OF ASSETS (A-B)		5,99,42,52,865
	1. Opening Balance of Security Deposit	90,57,56,722			CAPITALISED ESTABLISHMENT EXPENDITURE		
13,83,36,857	Add: Net Security Deposit during the year (Sc. B/S-4)	16,00,63,726	1,06,58,20,448		1. Opening Capitalised Estt.ment Expenditure.	2,75,83,684	
11,32,03,599			11,31,58,718	2,70,44,515	Add: Addition During the year (Sc. B/S-11)	48,069	2,76,31,753
9,33,75,277	2. Unpaid Salaries/Wages (Sc. I/E 2 & B/S- 16)		5,41,37,128	5,39,169			
58,00,000	3. Amount Payable to Contractors/Suppliers (Sc. B/S-8B)		68,00,000				
83,36,26,268	4. Professional Fees Payable		75,40,68,843				
1,62,32,821	5. Transferrable to Electricity Development Fund (Sc. B/S 15D) (refer note -14)		4,50,49,402				
2,08,47,65,308	6. Interest payable on Security Deposits		1,67,52,76,545				
15,12,235	SUNDRY CREDITORS		61,71,266	4,54,96,53,568	1. Opening Capital WIP	5,11,43,36,403	
	1. Power Purchased from Boards/Agencies (Sc. B/S-7)			56,46,82,835	Add: During the year (Sc.B/S -14)	(24,19,33,407)	
	2. U.I. Charges Payable (Sc. B/S 15E)			5,11,43,36,403	Capital work in progress upto end of year		4,87,24,02,996
32,30,134	AUDIT AND A/C. CHARGES						
	1. Opening Balance of CAG Audit Fees (Sc. B/S- 8)	32,30,134	32,30,134				
-	Add: CAG Audit fees payable for the year	-					

(Continued/....)

Previous year Corresponding figures 2011-12	L I A B I L I T I E S	Details for the year 2012-13	Progressive figures for the year 2012-13	Previous year Corresponding figures 2011-12	A S S E T S	Details for the year 2012-13	Progressive figures for the year 2012-13
2,07,866	2. Opening Balance of Regulatory Audit Fees (Sc. B/S -8)	2,58,428					
50,562	Add : Regulatory Audit fees Payable for year	50,562	3,08,990				
	<u>INTEREST ON CAPITAL</u>						
2,76,71,80,215	1. Opening Balance	2,76,71,80,215		30,65,17,868	1. Operating stores (Sc. B/S - 5)	25,41,81,399	
-	Add: Interest accrued during the year (Sc. B/S- 9A)	-	2,76,71,80,215	12,53,34,251	2. Advances to Contractors (Sc. B/S - 14A)	17,44,494	
				2,54,15,79,002	3. Sundry Debtors (Sc. B/S -15A)	2,61,74,01,317	
				43,87,199	4. U.I. Charges Receivable (Sc. B/S - 15E)	2,09,07,516	
				2,00,00,000	5. Loans & Advances	2,43,70,609	
				5,50,10,757	6. Deposits with Bank	5,50,10,757	
	<u>PROVISION FOR PENSION</u>			29,88,02,825	7. Electricity Duty Receivable (Sc. B/S - 15B)	35,73,84,832	3,33,10,00,924
58,33,53,004	1. Opening Balance	64,88,03,944		17,37,743	Cash in hand (Sc. B/S- 6)		1,91,715
6,54,50,940	Add: Provision during the year (Sc. B/S.-10)	6,10,51,584	70,98,55,528	12,57,46,23,170	Govt. Current A/c (Sc. B/S -16)		11,08,60,49,132
64,88,03,944							
26,16,05,38,481	Total		25,31,15,29,385	26,16,05,38,481	Total		25,31,15,29,385

ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA, INCOME & EXPENDITURE STATEMENT FOR THE YEAR 2012-13					
(Amount in `)					
Previous year figures 2011-12	Expenditure	Current year figure 2012-13	Previous year figures 2011-12	Income	Current year figure 2012-13
11,25,10,49,511	Power purchased from various Boards/ Agencies during the year. (Sc. B/S- 7) & (Sc. B/S - 15E)	10,45,21,62,042	8,60,05,83,884	Revenue from Sale of Power during the year (Sc.B/S- 15)	9,77,31,04,178
9,51,71,098	Distribution of supply, operation and maintenance expenditure (Sc. I/E-1)	19,16,48,145	46,48,09,581	Revenue from U. I. Charges (Sc. B/S - 15E)	20,68,25,410
1,55,03,99,684	Salaries and other allowances (Sc. I/E-2)	1,54,62,65,238	13,09,56,856	Miscellaneous Revenue (Sc. I/E-3)	8,56,78,435
32,74,85,156	Depreciation on Assets (Sc. B/S-13)	35,44,98,521	57,69,79,860	Revenue from Power Exchange (Sc. B/S - 16A)	12,08,46,085
13,80,48,679	Administrative & General Expenses (Sc. I/E - 2)	22,27,40,148	22,53,964	Deferred Income (Electricity Development fund) (B/S - 15C)	1,26,47,512
2,54,03,860	Provision for bad debt (Sc. B/S-3)	2,61,74,013	3,65,79,21,681	Loss during the year	2,64,19,02,486
2,97,15,017	Interest & Finance Charges (Sc. B/S-7)	1,86,99,418			
1,62,32,821	Interest on Security Deposits	2,88,16,581			
13,43,35,05,826	Total	12,84,10,04,106	13,43,35,05,826	Total	12,84,10,04,106

I/E-1**Expenditure on Maintenance & Distribution for the Year 2012-13**

(Amount in `)

Sr. no.	Particulars	Amount
1	Maintainance of S/S Transformers & Distribution Lines	14,96,64,795
2	Running & Maintainance of Meters & Relay Testing Labs.	1,49,215
3	Running & Maintainance of Workshop	3,33,013
4	Repairs & Maintainance of Transformers	3,40,150
5	Maintainance & Repairs of Elect. Residential Building	80,52,938
6	Repairs & Carriages, Running & Maintainance	3,08,32,477
7	Compensation to Accidental Death of Animals due to electrocution	1,04,000
8	Compensation due to accidental Death of Human being due to Electrocutation	14,88,240
9	Energy Conservation Expenses	-
	Sub - Total	19,09,64,828
Add :	Outstanding at the end of the current year (BS - 8B)	1,74,96,872
Less :	Advances to Contractors at the end of the year	-
Add :	Advances to Contractors at the beginning of the year	-
Less :	Outstanding at the beginning of the current year	69,82,275
Add :	Material lying at site at the beginning of current year (Section Inventory (Revenue))	5,53,28,088
Less :	Material lying at site at the end of current year (Section Inventory (Revenue))	6,51,59,368
	Total	19,16,48,145

I/E - 2**Expenses on Salary, Allowances & Other Charges for the year 2012-13**

(Amount in `)

Sr. no.	Major Head/Unit	2801-Non Plan	2801-Plan	Street Light	Other	Total
(I)	<u>Employee Cost</u>					
1	Salaries	1,14,24,07,764	28,92,41,178	5,20,63,565	-	1,48,37,12,507
2	Wages	-	-	-	-	-
3	Pension Contribution (B/S 10)	-	-	-	6,10,51,584	6,10,51,584
	Add : Salary Payable at the end of the year	7,93,90,166	2,73,98,395	61,78,442	-	11,29,67,003
	Less : Salary Payable at the beginning of the year	(7,56,26,209)	(3,00,28,267)	(58,11,380)	-	(11,14,65,856)
	Total (I)	1,14,61,71,721	28,66,11,306	5,24,30,627	6,10,51,584	1,54,62,65,238
(II)	<u>Administrative & General Expenses :</u>					
1	Travelling Expenses	27,61,734	9,37,775	15,267	-	37,14,776
2	Office Expenses	3,31,99,889	34,18,890	14,31,67,000	-	17,97,85,779
3	Petrol,Oil,Lubricant (P.O.L)	-	69,411	-	-	69,411
4	Rent,Rates & Taxes	21,14,582	91,896	-	-	22,06,478
5	Advertisement & Publicity	17,99,554	6,14,485	-	-	24,14,039
6	Professional & Special Services	14,87,579	29,04,705	-	-	43,92,284
7	Other Charges	1,13,75,399	-	-	-	1,13,75,399
8	Overtime Allowance	5,113	37,809	-	-	42,922
9	Minor Works	9,71,948	-	1,67,16,550	-	1,76,88,498
10	Audit of Accounts and Professional Fees	-	-	-	10,50,562	10,50,562
	Total (II)	5,37,15,798	80,74,971	15,98,98,817	10,50,562	22,27,40,148
	Total (I + II)	1,19,98,87,519	29,46,86,277	21,23,29,444	6,21,02,146	1,76,90,05,386

I/E - 3**Miscellaneous Revenue Account for the year 2012-13**

(Amount in `)

Sr. no.	Particulars	Amount
I	Miscellaneous Revenue (Sch - B/S - 16(A))	
	0801-05-800 - Other Receipts	6,30,14,507
	0801-80-800 - General - Other Receipts	2,20,78,966
II	Recoveries of over-payment of previous year (Sc - B/S - 7A)	14,54,276
III	Deduct : Refunds (Sch - B/S - 16(A))	(8,69,314)
	Total (I+II-III)	8,56,78,435

B/S-1**Net Capital Expenditure of the Electricity Department for 2012-13**

(Amount in `)

Sr.no.	Particulars	Amount	Amount
I	Opening Balance as on 01/04/2012		11,34,99,72,828
II	Expenditure During the year under 4801-C.O.P.P		
i	Hydel Generation	-	
ii	Transmission & Distribution	-	
iii	Non Conventional source of energy	-	
iv	Other Expenditure (B/S - 14 B) (Except expenditure on infrastructure development through electricity duty)	61,93,90,622	
v	Less:- Receipt & Recoveries	(5,10,531)	
	Total (II)		61,88,80,091
	Total Capital Expenditure upto 12-13 (I+II)		11,96,88,52,919

B/S-2**Reserve & Surplus Account for the Year 2012-13**

(Amount in `)

Sr.no.	Particulars	Amount	Amount
I	Capital Reserve		
	Opening balance as on 01/04/2012	2,12,82,371	
	Add:- Receipts & recoveries under 4801(Plan)	5,10,531	2,17,92,902
II	Revenue Reserve		
	Opening balance as on 01/04/2012	3,91,83,13,779	
	Less:- Loss for the year 2012-13	(2,64,19,02,486)	1,27,64,11,293
	Total Reserve & surplus upto 31/03/13		1,29,82,04,195

B/S-3**Reserve for Bad Debts for the year 2012-13**

(Amount in `)

Sr.no.	Particulars	Amount	Amount
I	Opening balance as on 01/04/2012		15,46,04,056
II	During the Year		
	Add:- Provision for 2012-13 (1% of Sundry Debtors)	2,61,74,013	
	Less:- Bad Debts Written off	-	2,61,74,013
	Total Reserve For Baddebts Upto 31/03/13		18,07,78,069

B/S - 4**Statement of Security Deposits received by the Electricity Department for the year 2012-13**

(Amount in `)

Sr. no.	Division	Opening Balance		Deposits Received		Refund/Adjusted		Closing Balance	
		Security Deposits	Other Deposits	Security Deposits	Other Deposits	Security Deposits	Other Deposits	Security Deposits	Other Deposits
1	Exe. Engr. Div-I, Panaji	98,17,409	14,78,55,136	29,32,410	2,24,03,586	15,79,855	15,10,515	1,11,69,964	16,87,48,207
2	Exe. Engr. Div-II, Margao	2,07,43,130	1,31,352	19,81,638	-	46,22,445	-	1,81,02,323	1,31,352
3	Exe. Engr. Div-III, Ponda	80,85,566	1,33,25,910	14,84,198	65,50,961	96,555	-	94,73,209	1,98,76,871
4	Exe. Engr. Div-IV, Margao	5,70,23,152	13,94,89,048	1,35,42,219	1,07,77,088	2,33,37,630	29,90,106	4,72,27,741	14,72,76,030
5	Exe. Engr. Div-V, Bicholim	71,74,149	4,82,38,956	22,09,152	3,07,65,558	27,59,835	21,79,298	66,23,466	7,68,25,216
6	Exe. Engr. Div-VI, Mapusa	1,43,14,591	17,06,17,624	72,85,959	2,04,75,336	12,48,992	33,86,980	2,03,51,558	18,77,05,980
7	Exe. Engr. Div-VII, Curchorem	56,04,218	4,16,43,303	7,44,830	87,79,871	5,35,930	3,69,549	58,13,118	5,00,53,625
8	Exe. Engr. Div-VIII, Margao	2,77,305	-	2,02,814	-	-	-	4,80,119	-
9	Exe. Engr. Div-IX, Tivim	-	4,82,28,680	-	1,42,026	-	1,15,223	-	4,82,55,483
10	Exe. Engr. Div-X, Ponda	1,35,06,732	5,19,43,650	41,50,365	1,01,27,756	28,42,319	6,75,193	1,48,14,778	6,13,96,213
11	Exe. Engr. Div-XI, Vasco	74,14,954	6,60,73,524	21,49,646	4,44,14,843	8,79,510	8,47,911	86,85,090	10,96,40,456
12	Exe. Engr. Div-XII, Xeldem	24,02,115	-	2,92,880	-	59,152	-	26,35,843	-
13	Exe. Engr. Div-XIII, Corlim	23,96,898	-	1,80,536	-	7,014	-	25,70,420	-
14	Exe. Engr. Div-XIV, Verna	1,26,39,030	3,01,861	87,90,950	-	26,99,502	-	1,87,30,478	3,01,861
15	Exe. Engr. Div-XV, Patto Plaza	30,90,621	-	11,78,421	-	14,52,923	-	28,16,119	-
16	Exe. Engr. Div-XVI, Margao	-	-	1,31,004	57,33,521	-	5,000	1,31,004	57,28,521
17	Exe. Engr. Div-XVII, Mapusa	13,38,042	1,20,79,767	12,69,839	67,52,271	5,52,202	6,32,313	20,55,679	1,81,99,725
	Total	16,58,27,912	73,99,28,810	4,85,26,861	16,69,22,817	4,26,73,864	1,27,12,088	17,16,80,909	89,41,39,539

B/S- 5Statement of Operating Stores for the year 2012-13

(Amount in `)

Sr. no.	Particulars	Opening Balance	Debit	Credit	Material at Site		Closing Balance
					at the Beginning of the year	at the End of the year	
a	b	c	d	e	f	g	h = (c+d-e-f+g)
1	Stock	30,65,17,868	17,86,22,349	27,03,69,927	7,67,29,861	11,61,40,970	25,41,81,399

B/S - 6**"Cash in Hand" as on 31st March 2013, of the Electricity Department,
Government of Goa.**

(Amount in `)

Sr. no.	Offices	Work Cash	Estt. Cash	Revenue Cash	Total
1	The Chief Electrical Engineer	-	-	-	-
2	The Supdt. Engr., Circle I(S)	-	-	-	-
3	The Supdt. Engr., Circle II(N)	-	-	-	-
4	The Exe. Engr. Div I, Panaji	-	99,914	-	99,914
5	The Exe. Engr. Div. II, Margao	-	-	-	-
6	The Exe. Engr. Div III, Ponda	-	-	-	-
7	The Exe. Engr. Div IV, Margao	-	-	-	-
8	The Exe. Engr. Div V, Bicholim	-	-	-	-
9	The Exe. Engr. Div VI, Mapusa	-	-	-	-
10	The Exe. Engr. Div VII, Curchorem	-	1,000	-	1,000
11	The Exe. Engr. Div VIII, Margao	-	-	-	-
12	The Exe. Engr. Div IX, Tivim	-	1	-	1
13	The Exe.Engr. Div X, Ponda	-	-	-	-
14	The Exe. Engr. Div XI, Vasco	-	90,500	-	90,500
15	The Exe. Engr. Div XII, Xeldem	-	200	-	200
16	The Exe. Engr. Div XIII, Corlim.	-	100	-	100
17	The Exe. Engr. Div XIV, Verna	-	-	-	-
18	The Exe. Engr. Div XV, Patto Plaza.	-	-	-	-
19	The Exe. Engr. Div XVI, Margao	-	-	-	-
20	The Exe. Engr. Div XVII, Mapusa	-	-	-	-
	Total	-	1,91,715	-	1,91,715

B/S - 7
Details of expenditure towards power purchased from various agencies/boards by the Electricity Department
for the year 2012-13

(Amount in `)

Sr. no.	Name of Board/Agency	Opening Balance (`)	Amount Billed (`)	Credit on account of Prior Period adjustment	Total (`)	Debit (`)	Rebate (`)	Amount paid to Board/ Agency (`)	Closing Balance (`)	Units Purchased (Kwh)
	a	b	c	d	e=(c+d)	f	g	h	i=(b+e-f-g-h)	
1	KPTCL	16,73,246	1,81,70,165	-	1,81,70,165	-	-	1,80,99,863	17,43,548	-
2	N.T.P.C. Mumbai(W.R./S.R.)	56,03,31,404	6,60,33,92,268	-	6,60,33,92,268	-	9,57,31,111	6,48,66,12,130	58,13,80,431	3,11,14,26,157
3	M/s Reliance Energy	1,38,02,79,955	1,57,33,50,914	-	1,57,33,50,914	-	-	1,99,81,70,639	95,54,60,230	11,38,31,424
4	P.G.C.I.L. (W.R.) Nagpur T.C.	4,02,49,792	77,20,50,897	-	77,20,50,897	-	1,65,50,428	73,07,08,013	6,50,42,248	-
5	P.G.C.I.L. (S.R.) Bangalore T.C.	1,88,45,202	18,45,57,420	-	18,45,57,420	-	41,22,828	19,00,61,242	92,18,552	-
6	NPCIL Tarapur, Thane	1,41,07,660	25,21,45,536	-	25,21,45,536	-	56,56,889	23,92,91,174	2,13,05,133	8,76,38,545
7	NPCIL Kakrapur, Surat	2,39,34,628	26,17,55,354	-	26,17,55,354	-	59,58,165	25,39,22,580	2,58,09,237	10,97,90,622
8	P.T.C. India Ltd, New Delhi	30,19,189	3,04,46,608	-	3,04,46,608	-	4,46,310	3,26,38,242	3,81,245	1,18,14,875
9	M/s GEPL Amona	1,56,58,096	11,65,47,888	-	11,65,47,888	-	-	13,22,05,984	-	4,98,21,355
10	M/s NVVNL, New Delhi	79,99,999	8,43,46,656	-	8,43,46,656	-	15,38,634	9,08,08,022	(1)	2,08,18,140
11	M/s RGPPL, New Delhi	-	23,87,41,890	-	23,87,41,890	-	42,63,367	23,44,68,096	10,427	4,17,81,164
12	M/s MSETCL, Mumbai	-	2,59,49,751	-	2,59,49,751	-	-	2,37,33,084	22,16,667	-
13	M/s POSOCO, WR (Fees & Chgs.)	4,17,811	55,28,053	-	55,28,053	-	1,00,982	54,20,843	4,24,039	-
14	M/s POSOCO, WR (AMC, Reactive Chg. & STOA)	-	72,12,583	-	72,12,583	-	-	72,12,583	-	-
15	M/s POSOCO, SR	3,68,055	49,03,742	-	49,03,742	-	89,850	47,98,704	3,83,243	-
16	M/s GSPL, Santona Sanguem	1,64,74,944	2,43,97,392	-	2,43,97,392	1,84,67,997	-	1,05,02,792	1,19,01,547	1,01,65,580
17	M/s. MSEDCL	14,05,329	-	-	-	-	-	14,05,329	-	-
	Total	2,08,47,65,308	10,20,34,97,118	-	10,20,34,97,118	1,84,67,997	13,44,58,564	10,46,00,59,320	1,67,52,76,545	3,55,70,87,862
18	Interest & Finance Charges	-	1,86,99,418	-	1,86,99,418	-	-	1,86,99,418	-	-
	Total	2,08,47,65,308	10,22,21,96,536	-	10,22,21,96,536	1,84,67,997	13,44,58,564	10,47,87,58,738	1,67,52,76,545	3,55,70,87,862

B/S - 7A
Recoveries of Overpayment of Previous Years

(Amount in `)

Particulars	Amount	Amount
<u>911 - Recoveries of previous year</u>		
<u>01 - Recoveries of Overpayment of Previous Years</u>		
Salaries	14,54,276	
Office Expenses	-	
	14,54,276	14,54,276
Total		14,54,276

B/S - 8**Provision for Audit & account charges for the year 2012-13**

(Amount in `)

Sr. no.	Particulars	Amount	Amount
I	For CAG Audit		
i	Opening balance	32,30,134	
ii	Add: Audit fees payable for year 2012-13	-	32,30,134
II	For Regulatory Audit		
i	Opening balance	2,58,428	
ii	Add: Audit Fees Payable for Year 2012-13	50,562	3,08,990
	Total Audit fees payable		35,39,124

B/S - 8A**Provision for Professional Fees for the year 2012-13**

(Amount in `)

Sr. no.	Particulars	Amount	Amount
I	For Professional Fees		
i	Opening balance	58,00,000	
ii	Add: Professional Fees payable for year 2012-13	10,00,000	
	Total Professional Fees Payable		68,00,000

B/S - 8B
Payables to Contractors/Suppliers as on 31st March, 2013

(Amount in `)

Sr. no.	Major Head	Amount	Amount
I	4801 - C.O.P.P		
i	16 - Erection of Augmentation of 33/11KV Sub-Station & 33KV Lines(Plan)	24,64,548	
ii	17 - Normal development schemes (Plan)		
	53 - Major Works	2,27,20,486	
iii	22 - System Improvement Scheme(Plan)		
	53 - Major Works	26,78,819	
iv	35 - Erection of 220/33 KV, 1x50 MVA Sub-Station at Amona (Plan)		
v	39 - Stregthening of 220KV Tr. Net Work (Plan)	4,29,999	
vi	41 - Accelerated Power Development reforms Programme (Plan)	16,36,918	
vii	43 - Augumentation of Kadamba S/S,from 2x40MVA to 4X40MVA	-	
viii	4801 (Plan) - Others	17,95,614	
	8229 - Infrastructure Development	49,13,872	
	Total (I)		3,66,40,256
II	2801-05-800		
i	02- Maintenance of S/S Transformers and Distribution Lines (N/P)	77,56,698	
ii	07- Repairs and Carriages, Running and Maintenance (N/P)	-	
iii	2801 (Others)	97,40,174	
	Total (II)		1,74,96,872
	Total (I+II)		5,41,37,128

B/S - 9**Capital Outlay on the Electricity Department for the year 2012-13**

(Amount in `)

Sr. no.	Particulars	Amount	Amount
I	Withdrawal from Government Treasury		
i	Net Capital Expenditure during the year 2012-13 (B/S-14B)	97,19,35,217	
ii	Net Revenue outflow during the year 2012-13 (B/S-9B)	12,69,57,36,441	
iii	Capital Estt. Expenditure (B/S- 11)	48,069	
	Total (I)		13,66,77,19,727
II	Remittance into Government Treasury		
i	Revenue Collected during the year 2012-13 (B/S-16A)	11,39,96,91,341	
ii	Net Receipt towards security deposits (B/S-4)	16,00,63,726	
	Total (II)		11,55,97,55,067
III	Net addition to capital outlay (I-II)		2,10,79,64,660
IV	Add capital outlay upto year 2011-12		(33,43,51,939)
V	Total capital outlay of the Department Upto the year 2012-13 (III+IV)		1,77,36,12,721

BS-9(A)**Statement of Interest on Capital Outlay for the year 2012-13**

Sr. no.	Particulars	Amount (in `)	Amount (in `)
1	Capital outlay upto 2011-12	(33,43,51,939)	
2	Add 50% of the net capital outlay of 2012-13 (B/S-9)	1,05,39,82,330	
	Total		71,96,30,391
	Calculation of Interest		
3	Interest payable during 2012-13	-	
4	Balance payable for previous year as per balance sheet	2,76,71,80,215	
5	Total interest payable at the end of financial year 2012-13 (3+4)		2,76,71,80,215

BS-9(B)**Net Revenue outflow of the Electricity Department for the year 2012-13**

Sr. no.	Particulars	Amount (in `)	Amount (in `)
1	Direction & Administration (I/E-2) (Other than Provisions)	1,70,54,02,093	
2	Operating Stores (B/S- 5)	17,86,22,349	
3	Other expenditure (Annexure- I)	11,08,35,36,202	
	Total		12,96,75,60,644
4	Credit to stock (B/S-5)	(27,03,69,927)	
5	911- Recoveries of Previous year (B/S-7A)	(14,54,276)	(27,18,24,203)
	Net Revenue Expenditure		12,69,57,36,441

Note : Schedules BS - 9, 9(A), 9(B) are for representation purpose only, these have been kept as per formats followed by the Department.

B/S - 10
Electricity Department , Government of Goa.
Pension contribution for the year 2012-13

Prescribed rate of groups:

	Min.	Max.	Average
A	7	23	15.00
B	6	20	13.00
C	5	18	11.50
D	4	14	9.00

Average monthly contribution $=(\text{Min}+\text{Max})/2+\text{G.pay} \times \text{Average rate}$

Sr.no	Group & Designation excluding re-employed Staff	Pay Scales				Total Number of Filled Post	Total Number of Filled post under New pension Scheme	Total filled post under CSR Pension rules	Average rate of contribution %	Average Amount of Monthly contribution (in `)	Yearly contribution (Col. 11 X 12months) (in `)	Total Pension contribution for the year (Col.12 Xcol. 9) (in `)
		P.Band	Min	Max	G.Pay							
Group 'A' Gazetted												
1	Chief Electrical Engineer	PB-4	37,400	67,000	8,700	1	0	1	15	9,135	1,09,620	1,09,620
2	Superintending Engineer	PB-3	15,600	39,100	7,600	4	0	4	15	5,243	62,916	2,51,664
3	Executive Engineer (Elect)	PB-3	15,600	39,100	6,600	24	0	24	15	5,093	61,116	14,66,784
4	Executive Engineer (Civil)	PB-3	15,600	39,100	6,600	1	0	1	15	5,093	61,116	61,116
5	Jt. Director of Accounts	PB-3	15,600	39,100	6,600	1	0	1	15	5,093	61,116	61,116
Group 'B' Gazetted												
6	Dy. Director (Admn)	PB-3	9,300	34,800	5,400	1	0	1	13	3,569	42,828	42,828
7	Asst. Engineer (Elect)	PB-2	9,300	34,800	4,600	162	0	162	13	3,465	41,580	67,35,960
8	Asst. Engineer (Civil)	PB-2	9,300	34,800	4,600	9	0	9	13	3,465	41,580	3,74,220
9	Asst. Engineer (Planning)	PB-2	9,300	34,800	4,600	1	0	1	13	3,465	41,580	41,580
10	Asst. Accounts officer	PB-2	9,300	34,800	4,600	2	0	2	13	3,465	41,580	83,160
11	Research Assistant	PB-2	9,300	34,800	4,600	1	0	1	13	3,465	41,580	41,580
Group 'C'												
12	Estt. Superintendent	PB-2	9,300	34,800	4,600	0	0	0	11.5	3,065	36,780	-
13	Sr. Wireless Mechanic	PB-2	9,300	34,800	4,200	1	0	1	11.5	3,019	36,228	36,228
14	Accountant	PB-2	9,300	34,800	4,200	16	2	14	11.5	3,019	36,228	5,07,192
15	Jr. Engineer (Elect)	PB-1	5,200	20,200	2,800	224	60	164	11.5	1,783	21,396	35,08,944
16	Jr. Engineer (Civil)	PB-1	5,200	20,200	2,800	10	0	10	11.5	1,783	21,396	2,13,960
17	Foreman (Elect)	PB-1	5,200	20,200	2,800	5	0	5	11.5	1,783	21,396	1,06,980
18	Head Clerk	PB-2	9,300	34,800	4,200	54	0	54	11.5	3,019	36,228	19,56,312
19	Sr. Stenographer	PB-2	9,300	34,800	4,200	0	0	0	11.5	3,019	36,228	-
20	Draughtsman Gr. I	PB-1	5,200	20,200	2,800	1	0	1	11.5	1,783	21,396	21,396
21	Meter Mechanic	PB-1	5,200	20,200	2,400	7	0	7	11.5	1,737	20,844	1,45,908
22	Wireless Mechanic	PB-1	5,200	20,200	2,400	0	0	0	11.5	1,737	20,844	-
23	U.D. Clerk	PB-1	5,200	20,200	2,400	74	0	74	11.5	1,737	20,844	15,42,456
24	Jr. Stenographer	PB-1	5,200	20,200	2,400	19	13	6	11.5	1,737	20,844	1,25,064
25	Draughtsman Gr - II	PB-1	5,200	20,200	2,400	5	0	5	11.5	1,737	20,844	1,04,220
26	Station Operator	PB-1	5,200	20,200	2,400	233	58	175	11.5	1,737	20,844	36,47,700
27	Investigator	PB-1	5,200	20,200	2,400	1	0	1	11.5	1,737	20,844	20,844

Sr.no	Group & Designation excluding re-employed Staff	Pay Scales			Total Number of Filled Post	Total Number of filled post under New pension	Total filled post under CSR Pension rules	Average rate of contribution %	Average Amount of Monthly contribution (in '.)	Yearly contribution (Col.11 X 12months) (in '.)	Total Pension contribution for the year (Col.12 Xcol. 9) (in '.)	
28	Draughtsman Gr III	PB-1	5,200	20,200	2,000	6	0	6	11.5	1,691	20,292	1,21,752
29	L.D.Clerk	PB-1	5,200	20,200	1,900	429	241	188	11.5	1,679	20,148	37,87,824
30	Meter Reader	PB-1	5,200	20,200	1,900	322	28	294	11.5	1,679	20,148	59,23,512
31	Meter Tester	PB-1	5,200	20,200	1,900	17	0	17	11.5	1,679	20,148	3,42,516
32	Lineman/Wireman	PB-1	5,200	20,200	1,900	456	66	390	11.5	1,679	20,148	78,57,720
33	Driver (H/V)	PB-1	5,200	20,200	1,900	27	16	11	11.5	1,679	20,148	2,21,628
34	Driver (L/V)	PB-1	5,200	20,200	1,900	268	4	264	11.5	1,679	20,148	53,19,072
35	cable Jointer	PB-1	5,200	20,200	1,900	0	0	0	11.5	1,679	20,148	-
36	Mason Mistry	PB-1	5,200	20,200	1,900	5	0	5	11.5	1,679	20,148	1,00,740
37	Plumber	PB-1	5,200	20,200	1,900	2	0	2	11.5	1,679	20,148	40,296
38	Carpenter	PB-1	5,200	20,200	1,900	0	0	0	11.5	1,679	20,148	-
39	Turner/Fitter	PB-1	5,200	20,200	1,900	9	0	9	11.5	1,679	20,148	1,81,332
40	welder	PB-1	5,200	20,200	1,900	6	0	6	11.5	1,679	20,148	1,20,888
41	Store clerk	PB-1	5,200	20,200	1,900	15	2	13	11.5	1,679	20,148	2,61,924
42	Telephone operator	PB-1	5,200	20,200	1,900	33	6	27	11.5	1,679	20,148	5,43,996
	Group 'D'											
43	Asst. Data Entry Operator	PB-1	5,200	20,200	1,800	164	13	151	9	1,305	15,660	23,64,660
44	Daftary	-1S	4,440	7,440	1,650	6	0	6	9	683	8,196	49,176
45	Switch Board Operator	-1S	4,440	7,440	1,650	7	0	7	9	683	8,196	57,372
46	Oil filter operator	-1S	4,440	7,440	1,650	1	0	1	9	683	8,196	8,196
47	Lift operator	-1S	4,440	7,440	1,650	1	0	1	9	683	8,196	8,196
48	Blue printer	-1S	4,440	7,440	1,650	1	0	1	9	683	8,196	8,196
49	Asst Lineman/Wireman	-1S	4,440	7,440	1,650	898	79	819	9	683	8,196	67,12,524
50	Line Helper	-1S	4,440	7,440	1,300	1146	489	657	9	652	7,824	51,40,368
51	Peon	-1S	4,440	7,440	1,300	56	11	45	9	652	7,824	3,52,080
52	Watchman	-1S	4,440	7,440	1,300	34	4	30	9	652	7,824	2,34,720
53	Sweeper	-1S	4,440	7,440	1,300	11	0	11	9	652	7,824	86,064
	Total					4777	1092	3685		1,18,191	14,18,292	6,10,51,584

BS-11**Capital Establishment Expenditure of the Electricity Department for the year 2012-13**

Sr. no.	Particulars	Amount in `
1	Establishment charges transferred from 2059- Public Works	-
2	Apprenticeships Scheme	48,069
	Total	48,069

B/S - 12**Statement of Assets acquired by the Electricity Department for the year 2012-13**

(Amount in `)

Sr. no.	Details of Asset	Opening Balance	Addition during the year (Annexure - III)	Net Balance	Assets written off as life of assets is over	Closing Balance
a	b	c	d	e=(c+d)	f	g=(e-f)
1	Land	6,28,26,051	-	6,28,26,051	-	6,28,26,051
2	Building	12,42,85,347	2,12,700	12,44,98,047	-	12,44,98,047
3	R.C.C. Tank	89,09,839	-	89,09,839	-	89,09,839
4	Plant & Machinery	83,90,63,577	8,75,07,804	92,65,71,381	-	92,65,71,381
5	Transformer above 100KVA	1,06,76,99,462	10,95,51,349	1,17,72,50,811	19,97,948	1,17,52,52,863
6	Transformer below 100KVA	20,10,83,144	9,50,50,049	29,61,33,193	11,67,327	29,49,65,866
7	Static Machine Tools	2,41,93,772	-	2,41,93,772	-	2,41,93,772
8	Self Propelled vehicles	3,08,08,310	36,44,158	3,44,52,468	3,78,558	3,40,73,910
9	Switch gear & S/S Equipment	53,20,50,279	9,46,37,770	62,66,88,049	1,09,67,369	61,57,20,680
10	Meters	61,71,88,954	13,64,74,205	75,36,63,159	59,10,183	74,77,52,976
11	Office furniture	1,07,98,629	4,88,377	1,12,87,006	71,565	1,12,15,440
12	Office Equipments	1,33,10,628	7,94,412	1,41,05,040	2,25,779	1,38,79,261
13	LT & HT Overhead Lines	1,54,33,47,532	13,87,51,000	1,68,20,98,532	-	1,68,20,98,532
14	Lightening Arrestors	8,13,02,321	33,000	8,13,35,321	4,35,378	8,08,99,943
15	Batteries	44,21,737	5,400	44,27,137	12,688	44,14,449
16	Street light fixtures	24,22,90,803	6,25,64,642	30,48,55,445	54,75,767	29,93,79,678
17	Service lines	17,91,95,692	-	17,91,95,692	-	17,91,95,692
18	Under Ground Lines	1,35,41,57,417	52,84,10,940	1,88,25,68,357	-	1,88,25,68,357
					-	
	Total	6,93,69,33,494	1,25,81,25,806	8,19,50,59,300	2,66,42,562	8,16,84,16,738

B/S - 13
Statement of Depreciation of Assets during the year 2012-13

(Amount in `)

Sr. no.	Particulars	Opening Balance	Less Dep. As life of asset is over	Net Opening Balance	Rate of Depreciation	Depreciation for assets purchased in previous years (BS - 12) (@ 90% of Cost) [Closing Balance (-) Additions during the year]	Depreciation for assets purchased during the year (12-13) (Annexure - III)	Addition of Depreciation during the year	Closing Balance
a	b	c	d	e = (c-d)	f	g	h	l = (g+h)	j = (e+i)
1	Building	2,63,13,541	-	2,63,13,541	3.34	37,36,018	7,795	37,43,813	3,00,57,354
2	R.C.C. Tanks	41,89,866	-	41,89,866	5.28	4,23,396	-	4,23,396	46,13,262
3	Plant & Machinery	10,30,51,767	-	10,30,51,767	5.28	3,98,72,301	20,92,705	4,19,65,007	14,50,16,774
4	Transformer above 100KVA	28,31,56,505	19,97,948	28,11,58,557	5.28	5,06,42,136	26,46,177	5,32,88,313	33,44,46,871
5	Transformer below 100KVA	7,48,53,485	11,67,327	7,36,86,159	5.28	95,00,000	21,02,535	1,16,02,535	8,52,88,694
6	Static Machine Tools	88,98,287	-	88,98,287	5.28	11,49,688	-	11,49,688	1,00,47,975
7	Self propelled Vehicles	1,42,33,104	3,78,558	1,38,54,546	9.50	26,01,744	60,767	26,62,511	1,65,17,057
8	Switch gear & S/S equip.	20,46,92,240	1,09,67,369	19,37,24,871	5.28	2,47,61,860	20,64,106	2,68,25,966	22,05,50,837
9	Meters	16,61,55,449	59,10,183	16,02,45,266	5.28	2,90,47,967	31,09,871	3,21,57,839	19,24,03,104
10	Office Furniture	44,69,579	71,565	43,98,014	6.33	6,11,121	11,168	6,22,289	50,20,303
11	Office Equipments	42,61,918	2,25,779	40,36,139	6.33	7,45,444	18,220	7,63,663	47,99,802
12	Overhead lines	53,85,19,429	-	53,85,19,429	5.28	7,33,39,875	30,52,743	7,63,92,617	61,49,12,046
13	Lightening arrestors	4,68,78,210	4,35,378	4,64,42,832	5.28	38,42,797	739	38,43,536	5,02,86,368
14	Batteries	16,47,822	12,688	16,35,134	5.28	2,09,518	167	2,09,685	18,44,819
15	St. light fittings	7,18,42,529	54,75,767	6,63,66,763	5.28	1,12,53,451	18,53,716	1,31,07,167	7,94,73,929
16	Service lines	10,65,58,163	-	10,65,58,163	5.28	85,15,379	-	85,15,379	11,50,73,543
17	Underground cables	18,65,86,017	-	18,65,86,017	5.28	6,43,49,560	1,28,75,558	7,72,25,118	26,38,11,135
	Total	1,84,63,07,914	2,66,42,562	1,81,96,65,352		32,46,02,254	2,98,96,267	35,44,98,521	2,17,41,63,873

B/S - 14
Capital work in progress of the Electricity Department for the year 2012-13

Sr.no.	Particulars	Amount (in `)	Amount (in `)
I	Opening Balance		5,11,43,36,403
II	Adjustment During the Year		
i	Add : Work in Progress during 2012-13 (BS 14(B))	92,21,82,471	
ii	Less : Assets acquired during the year (B/S - 12)	(1,25,81,25,806)	
iii	Add : Advances to Contractors & Suppliers at the beginning of the year	12,53,34,251	
iv	Less:Advances to Contractors & Suppliers at the end of the year (B/S - 14(A))	(17,44,494)	
v	Add : Material lying at site at the beginning of current year (Section Inventory (Capital))	2,14,01,773	
vi	Less : Material lying at site at the end of current year (Section Inventory (Capital))	(5,09,81,602)	
vii	Less : Capitalised Establishment Expenditure	-	
	Total (II)		(24,19,33,407)
	Net Capital Work in Progress (I-II)		4,87,24,02,996

B/S - 14 (A)
Advances to Contractors/Suppliers as on 31st March, 2013

Sr.no.	Particulars	Amount (in `)	Amount (in `)
I	4801 - C.O.P.P		
i	17 - Normal development schemes (Plan)		
	53 - Major Works	-	
ii	22 - System Improvement Scheme (Plan)	4,58,657	
iii	35 - Erection of 220/33 KV 1x50MVA, Sub-Station at Amona	-	
iv	41 - Accelerated Power Development reforms Programme(Plan)	-	
v	4801 - Others	-	
	8229 - Infrastructure Development	12,85,837	
	Sub Total (I)		17,44,494
II	2801 - Other Revenue Expenses	-	
	Sub Total (II)		-
	Total		17,44,494

SCHEDULE B/S - 14(B)
Expenditure of works in progress and Tools & Plant for the year 2012-13
Details of expenditure booked under 4801 (PLAN)

Tools and Plants Expenditure

Sr. no.	Major Head	Amount (in `)	Amount (in `)
A	4801- Capital Outlay on Power Projects		
	05- Transmission & Distribution		
I	796 - Tribal area sub-Plan		
	01 - Scheduled tribe Development scheme		
	53 - Major works	17,49,69,301	
II	800- Other Expenditure		
i	01 - Machinery & Equipments	-	
ii	02- Infrastructure Development through Electricity Duty	35,25,44,595	
iii	16 - Erection & Augmentation of 33/11KV Sub-Station & 33KV Lines (Plan)	51,43,360	
iv	17 - Normal development scheme in Goa (Plan)	21,80,99,366	
v	20 - Research Training and Human Resources Development (Plan)	5,75,057	
vi	22 - System Improvement Scheme (Plan)	2,26,71,702	
vii	24 - Construction of Staff quarters & Office buildings	8,08,093	
viii	25 - Add. % charges for Estt. transfered from '2059-Public Works'	-	
ix	26 - Add % charges for Tools & Plants transferred from 2059-P.W.	-	
x	33 - Erection of 220/33 KV, 1x50 MVA S/s at Cuncolim	1,31,57,345	
xi	34 - Erection of 220/33 KV, from Xeldem to Cuncolim	13,47,744	
xii	35 - Erection of 220/33 KV 1x50MVA, Sub-Station at Amona	62,520	
xiii	39 - Stregthening of 220KV Tr. Net Work (Plan)	73,69,298	
xiv	41 - Accelerated Power development reforms programme (Plan)	-	
xv	43 - Augmentation of Kadamba S/S,from 2x40MVA to 4X40MVA	21,00,000	
xvi	44 - Erection of 2nd 100MVA transformer at Xeldem 220/110KV (Plan)	-	
xvii	45 - Erection of of 220/110/33/11 KV Substation at Verna (New)	-	
xviii	51 - APDRP States Schemes	12,00,16,993	
xix	52 - Restructured Accelerated Power Dev. & Reforms Program	5,30,69,843	
	Total (I+II)		97,19,35,217
III	01 - Hydel Generation		-
	TOTAL (I+II+III)		97,19,35,217
Add :	Payables to Contractors/Suppliers at the end of the year (B/S - 8B)	3,66,40,256	
Less :	Payables to Contractors/Suppliers at the beginning of the year	8,63,93,002	
	TOTAL		92,21,82,471

B/S-15

Statement of Power sold by Electricity Department year 2012-13

Amount (in `)

Sr. no.	Category	Units Consumed as per DCB Statement	No. of Consumers as per DCB Statement	Amount Billed During the Year as per D.C.B Statement			
				Electricity Duty (a)	Energy Charges (b)	Meter Rent (c)	Total (a+b+c)
	A. LOW TENSION SUPPLY						
1	(a) LTD/Domestic	797351786	409792	16,46,92,670	1,50,69,95,928	2,46,73,675	1,69,63,62,273
	(b) LTD/L.I.G.	7483915	11249	11,57,953	1,05,18,478	2,99,223	1,19,75,654
	(c) LTD Domestic Mixed	4365575	716	12,37,639	1,33,30,297	60,485	1,46,28,421
2	LTC/Commercial	250714562	77705	16,77,66,232	1,04,82,67,506	58,61,534	1,22,18,95,272
3	(a) LTP/Motive Power	75321108	6716	4,86,38,888	24,09,62,838	6,14,784	29,02,16,510
	(b) LTP Mixed (Hotel Industries)	5498309	109	36,46,469	2,83,00,914	12,769	3,19,60,152
	(c) LTP Ice Manufacturing	7026625	40	48,59,283	2,36,87,486	3,828	2,85,50,597
4	LTAG/Agriculture	12893441	10060	28,34,591	2,30,86,432	7,82,868	2,67,03,891
5	(a) LTPL (Public lighting)	32917502	1307	25,62,147	10,60,58,074	1,74,648	10,87,94,869
	(b) Frozen Arrears (Street light)	211960	13	-	5,08,970	300	5,09,270
6	LTPWW/Public Water works	2314523	269	8,28,415	98,76,403	25,049	1,07,29,867
		0	0	-	-	-	-
	B. HIGH TENSION SUPPLY	0	0	-	-	-	-
7	HT (Mixed)	114789683	171	2,31,97,674	47,18,10,611	9,05,130	49,59,13,415
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	525679947	25	36,17,77,595	1,95,65,56,152	1,40,500	2,31,84,74,247
9	HTI Industrial	640383719	433	38,57,41,314	2,42,26,95,119	24,66,212	2,81,09,02,645
10	HTAG (Agriculture)	6348746	42	2,78,775	1,20,25,711	2,43,590	1,25,48,076
11	EHTI (Industrial)	132239189	5	9,23,08,475	55,50,06,904	25,000	64,73,40,379
12	HT P.W.W. & Sewage system	139776278	32	1,01,802	57,75,60,960	1,93,000	57,78,55,762
13	HT. M.E.'s Defence Estt.	25487359	12	-	9,60,62,443	72,000	9,61,34,443
14	HTI (Steel Rolling)	63715831	13	4,05,11,617	24,86,98,732	72,000	28,92,82,349
15	HTI / IT High Tech	40553655	36	2,83,22,542	15,57,61,153	1,62,080	18,42,45,775
16	HTI/Ice Manufacturing	492669	1	3,26,883	18,01,407	500	21,28,790
17	(a) Sale from EDG to GSPL (Div. VII)	5388980	1	-	1,56,50,522	-	1,56,50,522
	(b) Sale from EDG to GEPL (Div. V)	0	0	-	-	-	-
	(c) Sale from EDG to REL (Div. XIV)	0	0	-	-	-	-
18	(a) Sale of surplus Power, Div.III	0	1	-	-	-	-
	(b) Export to N.R. (Div. III)	0	1	-	-	-	-
19	Sale to MSEDCL (Div. VI)	0	1	-	(5,05,040)	-	(5,05,040)
19A	HTI Hotel Industry	14107180	11	87,83,204	5,72,19,716	76,500	6,60,79,420
		0	0	-	-	-	-
	C. TEMPORARY SUPPLY	0	0	-	-	-	-
20	(a) L.T. Temporary	19654339	4867	1,30,69,133	14,27,01,206	4,57,313	15,62,27,652
	(b) H.T. Temporary	736994	2	4,63,274	84,11,731	12,000	88,87,005
21	Arrears under RRC (with no. of cases)	0	6188	-	27,18,537	-	27,18,537
	Grand Total	2,92,54,53,875	5,29,818	1,35,31,06,575	9,73,57,69,190	3,73,34,988	11,12,62,10,753

B/S - 15A
Sundry Debtors as on 31st March, 2013

Particulars	Amount (`)	Amount (`)
Opening Balance as on 01/04/2012	2,54,15,79,002	
Add : Billed During the year 2012-13 (B/S - 15) (b + c)	9,77,31,04,178	
Less : Collection During the year 2012-13 (B/S-16A)	9,69,72,81,863	
Closing Balance as on 31/03/2013		2,61,74,01,317

B/S - 15B
Electricity Duty Receivable as on 31st March, 2013

Particulars	Amount (`)	Amount (`)
Opening Balance as on 01/04/2012	29,88,02,825	
Add : Billed During the year 2012-13 (B/S - 15) (a)	1,35,31,06,575	
Less : Collection During the year 2012-13	1,29,45,24,568	
Closing Balance as on 31/03/2013		35,73,84,832

B/S - 15C
Electricity Development Fund as on 31st March, 2013

Particulars	Amount (`)	Amount (`)
Opening Balance as on 01/04/2012		3,24,26,20,496
Add : Amount Transferred During the year 2012-13	1,43,26,64,000	
Less : Depreciation pertaining to assets created out of Electricity Development Fund	1,26,47,512	1,42,00,16,488
Closing Balance as on 31/03/2013		4,66,26,36,984

B/S - 15D
Electricity Duty Transferrable to Fund as on 31st March, 2013

Particulars	Amount (`)	Amount (`)
Opening Balance as on 01/04/2012	83,36,26,268	
Add : Electricity Duty Transferrable to Fund	1,35,31,06,575	
Less : Electricity duty transferred to Fund	1,43,26,64,000	
Transferrable to Fund as on 31/03/2013		75,40,68,843

B/S-15 E
Statement of U.I. Charges for the year 2012-13

(Amount in `)

Particulars	Western Region		Southern Region		TOTAL	
	Amount	Amount	Amount	Amount	Amount	Amount
Opening Balance as on 01.04.2012		(15,12,235)		43,87,199		28,74,964
Breakup :						
As per DCB Statement (old arrears)		1,51,39,191		0		1,51,39,191
Net Opening Balance		(1,66,51,426)		43,87,199		(1,22,64,227)
Transactions During the year						
Receivable during the year	3,80,57,225		16,87,68,185			
Less : Received during the year	4,96,61,320	(1,16,04,095)	15,31,53,346	1,56,14,839		40,10,744
Payable during the year	31,99,49,824		6,31,73,664			
Less : Paid during the year	32,68,94,888	(69,45,064)	6,40,79,142	(9,05,478)		(78,50,542)
Closing Balance as on 31.03.2013		(61,71,266)		2,09,07,516		1,47,36,250
Breakup :						
Old Arrears		1,51,39,191		-		1,51,39,191
Net Closing Balance		(2,13,10,457)		2,09,07,516		(4,02,941)

B/S-16
Current Account for the Year 2012-13

(Amount in `)

Sr. no.	Particulars	Amount	Amount
(A)			
1	Opening Balance		12,57,46,23,170
(B)	ADD:-		
2	Cash in hand as on 1-4-2012	17,37,743	
3	Remittance in treasury during 2012-13	11,39,96,91,341	
4	Net Security Deposits	16,00,63,726	
	Total (A)		11,56,14,92,810
(C)	LESS:-		
5	Undisbursed salary as on 1-4-2012	17,37,743	
6	Withdrawal from treasury on account of revenue expenditure A/c (B/S -9B)	12,69,57,36,441	
7	Withdrawal from treasury on account of infrastructure development through electricity duty (B/S - 14B (II) (ii))	35,25,44,595	
8	Capitalised Estt. Expenditure	48,069	
9	Add cash in hand as on 31-3-2013 (+)	1,91,715	
10	Deduct undisbursed salary as on 31-3-2013 (-)	(1,91,715)	
	Total (B)		13,05,00,66,848
	Government Current A/C (D)=(A +B-C)		11,08,60,49,132

B/S-16(A)
Receipt Head for the Financial Year 2012-13

		<u>(Amount in `)</u>	
Sr.no.	Particulars	Amount	Amount
A	0801-Power		
	05-Transmission and Distribution		
I	101-Power Development Schemes in Goa		
	01-Sale of Power (including Reconnection Charges & transfer entries)	9,69,72,81,863	
	02-Trading of Power	-	
	03-U.I. Charges	20,28,14,666	
	04-Open Excess	-	
	05-Electricity Duty	1,29,45,24,568	
	06-Power Exchange	12,08,46,085	11,31,54,67,182
II	800-Other Receipts		
	80-Sale proceeds of dead stock waste paper etc.	31,36,734	
	81-Other items	5,98,77,773	6,30,14,507
III	900-Deduct Refund		
	90-Deduct Refund	(8,69,314)	(8,69,314)
IV	80-General		
	800-Other Receipts		
	01- Receipts from State Electrical Inspectorate	23,11,121	
	80-Sale proceeds of dead stock waste paper etc.	97,917	
	81-Other items	1,96,69,928	2,20,78,966
	900-Deduct Refund		
	90-Deduct Refund	-	-
	Total		11,39,96,91,341

Annexure I
Final Expenditure Under Major Head 2801 (Plan) & (Non Plan) For the
Financial Year 2012-2013

Major Head 2801 (Plan) & (Non Plan)	Amount in `
2801-Power (Non-Plan)	
05- Transmission & Distribution	
001- Direction and Administration	
01- Establishment (Non-Plan) (A)	1,18,68,33,316
01- Salaries	1,13,89,22,037
02- Wages	-
03- Overtime Allowances	5,113
08- Petrol,Oil,Lubricant (P.O.L.)	-
11- Travelling Expenditure	27,21,486
13- Office Expenditure	3,28,88,547
14- Rent, Rates & Taxes	21,14,582
20- Other Administrative Expenses	-
26- Advertisement & Publicity	17,99,554
27- Minor Works	9,71,948
28- Professional & Special Services	14,87,579
50- Other Charges	58,89,970
50- Other Charges(Charged)	32,500
02- Establishment (Plan) (B)	29,73,64,218
01- Salaries	28,92,41,178
03- Overtime Allowances	37,809
11- Travelling Expenditure	9,37,775
13- Office Expenditure	34,18,890
13-34 Scholarship and Stipend	48,069
14- Rent, Rates & Taxes	91,896
24- POL	69,411
26- Advertisement & Publication	6,14,485
28- Professional & Special Services	29,04,705

(Continued/...)

Major Head 2801 (Plan) & (Non Plan)	Amount in `
799- Suspense (C)	17,86,22,349
01-	
95- Suspense	17,86,22,349
800- OTHER EXPENDITURE (D)	11,08,35,36,202
01- Cost of Bulk Supply of Power	10,89,25,71,374
02- Maintenance of S/S Transformers and Distribution Lines (N/P)	14,96,64,795
03- Running and Maintenance of Meters and Relay Testing Lab. (N/P)	1,49,215
04- Running and Maintenance of Workshop (N/P)	3,33,013
05- Repairs and Maintenance of Transformers (N/P)	3,40,150
06- Maintenance & Repairs of Elect. Residential Building (N/P)	80,52,938
07- Repairs and Carriages, Running and Maintenance (N/P)	3,08,32,477
08- Compen. accidental death of animals due to electrocution	1,04,000
09- Compen-accidental death of human being due to electrocution	14,88,240
12- Operation and Maintenance of public Street light in Municipal and Panchayat Area (Non-Plan) (E)	21,19,62,382
01- Salaries	5,20,63,565
11- Travelling Expenses	15,267
13- office Expenses	14,31,67,000
27- Minor Works	1,67,16,550
80-General	
800- Other Expenditure	
02 - State Electrical Inspectorate (Non Plan) (F)	14,54,614
01 - Salaries	14,46,072
13 - Office Expenses	8,542
03- Joint Electricity Regulatory Commission (G)	54,52,929
50- Other Charges	54,52,929
04- Consumer Grievances Redressal Forum (H)	23,82,703
01- Salaries	20,39,655
11- Travelling Expenses	40,248
13- Office Expenses	3,02,800
Total (I) = (A to H)	12,96,76,08,713
Recoveries (J) = (K + L)	(27,18,24,203)
799-Suspense	
910-Deduct value credited to stock (K)	(27,03,69,927)
911-Recoveries of previous year (L)	(14,54,276)
01-01 Salaries	(14,54,276)
Net Expenditure (Rs.) M = (I + J)	12,69,57,84,510

Annexure II
Final Expenditure Under Major Head 4801 (PLAN) For Financial Year 2012-2013

<u>Major Head 4801 (Plan)</u>	<u>Amount in `</u>
4801 - Capital outlay on Power Project(Plan)	
05 - Transmission & Distribution	
796 - Tribal area sub-Plan (A)	17,49,69,301
01 - Scheduled tribe Development scheme	
53 - Major works	17,49,69,301
800 - Other Expenditure (B)	1,87,70,85,321
01 - Machinery & Equipments	-
08 - P.O.L.	-
51 - Motor Vehicles	-
02- Infrastructure Dev. through Electricity Duty	1,43,26,64,000
53- Major Work	1,43,26,64,000
16 - Erection of Agumentation of 33/11KV Sub-Station & 33KV Lines(Plan)	51,43,360
53 - Major Works	51,43,360
17 - Normal development schemes (Plan)	21,80,99,366
53 - Major Works	21,80,99,366

(Continued/...)

<u>Major Head 4801 (Plan)</u>	<u>Amount in ₹</u>
20 - Research Training & Human Resource Development(Plan)	5,75,057
53 - Major Works	5,75,057
22 - System Improvement Scheme(Plan)	2,26,71,702
53 - Major Works	2,26,71,702
24 - Const. of Staff Quarters and Office Bldg.(Plan)	8,08,093
53 - Major Works	8,08,093
33 - Erection of 220/33 KV, 1x50 MVA S/s at Cuncolim	1,31,57,345
34 - Erection of 220/33 KV, from Xeldem to Cuncolim	13,47,744
35 - Erection of 220/33 KV, 1x50 MVA Sub-Station at Amona (Plan)	62,520
39 - Strengthening of 220 KV Transmission networks (Plan)	73,69,298
43 - Augumentation of Kadamba S/S, from 2x40MVA to 4X40MVA	21,00,000
51 - APDRP States Schemes	12,00,16,993
52 - Restructured Accelerated Power Dev. & Reforms Program	5,30,69,843
TOTAL (A)+(B)	2,05,20,54,622
Recoveries	
911 - Recoveries of overpayments of previous year	(5,10,531)
Grand Total	2,05,15,44,091

Note : Annexure - II does not form part of Accounts, it is annexed here to reflect the amounts recorded under various heads in State Accounts pertaining to Electricity Department.

Annexure III
Assets Acquired by Electricity Department of Goa During the Year 2012-13

Sr. no.	Brief Description of Assets and Classification Code	Total Cost of Addition of FA (As per Annexure - IV) (Amount in `)	Depreciation on Addition of FA during the Year (As per FA Register - on Pro rata basis) (Amount in `)	Value after Depreciation (Amount in `)	Depreciation Rate(%)
Details of Transmission (Sub-Station and EHV Lines) Assets					
T	Transmission-(Sub -station & EHV Lines)				
T1	Transformers	1,80,51,338	4,85,086	1,75,66,252	5.28
T2	Land & Land Rights	-	-	-	
T2.1	sub stations	-	-	-	
T2.2	others	-	-	-	
T3	Buildings	2,12,700	7,795	2,04,905	3.34
T4	Plant & Machinery	66,70,265	1,33,789	65,36,476	5.28
T4.1	Switchgear	8,38,936	18,821	8,20,115	5.28
T4.2	Ligntening Arrestors	33,000	739	32,261	5.28
T5	Lines & Cables	32,05,82,692	66,30,548	31,39,52,144	
T5.1	i) 33KV Overhead lines S/C	-	-	-	5.28
T5.2	ii) 33KV Overhead lines D/C	-	-	-	
T5.3	iii) 33KV Underground (indicating no of cables & Size)	32,05,82,692	66,30,548	31,39,52,144	5.28
T5.4	iv) 110KV lines (with details)	-	-	-	
T5.5	v) 220KV lines	-	-	-	
T6	Vehicles	27,27,756	50,586	26,77,170	9.50
T7	Office Equipment	5,063	258	4,805	6.33
T8	IT Equipment	71,926	1,471	70,455	
T9	Testing & Measuring Equipment	63,61,978	1,49,918	62,12,060	5.28

(Continued/...)

Sr. no.	Brief Description of Assets and Classification Code	Total Cost of Addition of FA (As per Annexure - IV) (Amount in `)	Depreciation on Addition of FA during the Year (As per FA Register - on Pro rata basis) (Amount in `)	Value after Depreciation (Amount in `)	Depreciation Rate(%)
Details of Distribution Assets					
D	Distribution				
D1	Transformers	18,65,50,060	42,63,627	18,22,86,433	
D1.1	i)63 KVA	3,92,893	8,009	3,84,884	5.28
D1.2	ii)100 KVA	9,46,57,156	20,94,526	9,25,62,630	5.28
D1.3	150KVA	5,54,700	10,603	5,44,097	5.28
D1.4	iii)160 KVA	19,27,169	49,859	18,77,310	5.28
D1.5	iv)200KVA	2,84,61,040	6,87,219	2,77,73,821	5.28
D1.6	v)400KVA	4,38,36,778	11,00,303	4,27,36,475	5.28
D1.7	vi)630KVA	1,67,20,324	3,13,108	1,64,07,216	5.28
	any other size(give size)	-	-	-	5.28
D2	Lines & Cables	34,65,79,248	92,97,753	33,72,81,495	
D2.1	i)11KV Overhead	5,19,87,277	11,84,492	5,08,02,786	5.28
D2.2	ii)11KV Underground	6,53,70,880	13,42,401	6,40,28,479	5.28
D2.3	iii)Three phase LT lines	6,33,36,506	13,58,308	6,19,78,198	5.28
D2.4.1	iv)Single phase LT lines	2,34,27,216	5,09,943	2,29,17,273	5.28
D2.5	v)three phase underground cables	11,25,98,778	38,51,663	10,87,47,115	5.28
D2.6	vi)single phase underground cables (with sizes)	2,98,58,590	10,50,946	2,88,07,644	5.28
	service lines	-	-	-	5.28
D3	Vehicles	8,00,000	7,499	7,92,501	9.50
D4	Furnitures & Fixtures	-	-	-	6.33
D5	Office Equipment	-	-	-	6.33
D6	Street Light Fixtures	6,25,64,642	18,53,716	6,07,10,926	
D7	IT Equipment	-	-	-	
D8	Testing & Measuring Equipment	13,64,74,205	31,09,871	13,33,64,333	
D8.1	Single Phase Meters(New & Replacement)	4,77,00,805	10,50,155	4,66,50,650	5.28
D8.2	Three Phase Meters (New & replacement)	2,62,70,524	5,61,026	2,57,09,498	5.28
D8.3	HT Meters (New & replacement)	6,25,02,876	14,98,691	6,10,04,185	5.28
D9	Plant & Machinery	-	-	-	5.28
D10	Distribution Accessories	9,37,98,834	20,45,285	9,17,53,550	5.28
D11	Batteries	5,400	167	5,233	5.28
S	New Substations	7,15,68,750	14,85,726	7,00,83,024	5.28
A	Administrative Offices (Others)	42,29,013	3,53,613	38,75,400	
A1	Vehicles	1,16,402	2,682	1,13,720	
A2	Furnitures and fixtures	4,88,377	11,168	4,77,209	6.33
A3	Office Equipments	7,89,349	17,961	7,71,388	6.33
A4	IT Equipments	28,34,885	3,21,801	25,13,084	
A5	Testing & Measuring Equipments	-	-	-	
A6	Crane Truck	-	-	-	
	RCC Tank	-	-	-	5.28
AL	Administrative Land & Buildings (Others)	-	-	-	
AL1	Land	-	-	-	
AL2	Buildings	-	-	-	3.34
	Grand Total	1,25,81,25,806	2,98,96,267	1,22,82,29,539	

Annexure IV
Division Wise Details of Assets Acquired by Electricity Department of Goa During the Year 2012-13

Sr. no.	Brief Description of Assets and Classification Code	Div I	Div II	Div III	Div IV	Div V	Div VI	Div VII	Div VIII	Div IX	Div X	Div XI	Div XII	Div XIII	Div XIV	Div XV	Div XVI	Div XVII	H.O.	SE I	SE II	Total
Details of Transmission (Sub-Station and EHV Lines) Assets																						
T	Transmission-(Sub-station & EHV Lines)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T1	Transformers	-	-	-	-	-	49,05,910	-	-	-	1,31,45,428	-	-	-	-	-	-	-	-	-	-	1,80,51,338
T2	Land & Land Rights	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T2.1	sub stations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T2.2	others	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T3	Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-	2,12,700	-	-	-	-	-	-	2,12,700
T4	Plant & Machinery	-	-	31,38,129	7,93,750	43,199	-	-	-	2,20,670	65,054	-	-	5,63,619	-	-	-	18,45,844	-	-	-	66,70,265
	Switchgear	-	-	7,84,000	-	-	-	-	-	54,936	-	-	-	-	-	-	-	-	-	-	-	8,38,936
D11	Lightening Arrestors	-	-	33,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33,000
T5	Lines & Cables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5.1	i) 33KV Overhead lines S/C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5.2	ii) 33KV Overhead lines D/C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5.3	iii) 33KV Underground (indicating no of cables & Size)	12,75,02,529	-	-	-	-	12,20,04,023	-	-	-	7,05,38,160	-	-	-	5,37,980	-	-	-	-	-	-	32,05,82,692
T5.4	iv) 110KV lines (with details)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T5.5	v) 220KV lines	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T6	Vehicles	-	-	-	-	-	7,00,000	-	-	-	-	-	-	27,756	-	-	20,00,000	-	-	-	-	27,27,756
T7	Office Equipment	-	-	-	-	-	-	-	-	-	-	-	5,063	-	-	-	-	-	-	-	-	5,063
T8	IT Equipment	-	-	-	-	-	-	-	-	-	-	-	71,926	-	-	-	-	-	-	-	-	71,926
T9	Testing & Measuring Equipment	-	-	-	-	-	-	-	63,61,978	-	-	-	-	-	-	-	-	-	-	-	-	63,61,978

Sr. no.	Brief Description of Assets and Classification Code	Div I	Div II	Div III	Div IV	Div V	Div VI	Div VII	Div VIII	Div IX	Div X	Div XI	Div XII	Div XIII	Div XIV	Div XV	Div XVI	Div XVII	H.O.	SE I	SE II	Total
Details of Distribution Assets																						
D	Distribution	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D1	Transformers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D1.1	i)63 KVA	-	-	-	73,180	-	-	99,682	-	-	1,46,851	-	-	-	73,180	-	-	-	-	-	-	3,92,893
D1.2	ii)100 KVA	5,27,364	-	-	37,53,026	6,51,289	53,42,697	8,01,260	-	-	13,07,826	13,68,720	-	-	4,87,454	-	3,79,520	8,00,38,000	-	-	-	9,46,57,156
D1.3	150KVA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,54,700	-	-	-	5,54,700
D1.4	iii)160 KVA	1,52,061	-	-	3,62,100	4,31,000	-	-	-	-	8,61,308	-	-	-	1,20,700	-	-	-	-	-	-	19,27,169
D1.5	iv)200KVA	4,85,754	-	-	90,61,700	1,44,250	92,54,101	5,66,611	-	-	28,56,943	31,45,559	-	-	13,01,872	-	1,44,250	15,00,000	-	-	-	2,84,61,040
D1.6	v)400KVA	67,41,931	-	-	2,67,83,370	-	57,14,216	-	-	-	30,73,483	-	-	-	15,23,778	-	-	-	-	-	-	4,38,36,778
D1.7	vi)630KVA	81,94,500	-	-	85,25,824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,67,20,324
	any other size(give size)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D2	Lines & Cables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D2.1	i)11KV Overhead	59,390	-	-	3,63,71,321	15,30,837	16,92,688	1,46,752	-	-	68,98,902	2,04,317	-	-	18,05,090	-	10,46,580	22,31,400	-	-	-	5,19,87,277
D2.2	ii)11KV Underground	80,52,820	-	-	4,45,00,016	15,60,300	1,12,28,944	-	-	-	-	-	-	-	28,800	-	-	-	-	-	-	6,53,70,880
D2.3	iii)Three phase LT lines	6,76,711	-	-	50,49,457	31,63,480	27,73,135	17,87,887	-	-	4,45,812	1,81,200	-	-	75,224	-	1,15,600	4,90,68,000	-	-	-	6,33,36,506
D2.4	iv)Single phase LT lines	60,350	-	-	1,36,10,120	5,58,516	11,78,233	22,20,160	-	-	51,93,086	-	-	-	-	-	43,950	5,62,800	-	-	-	2,34,27,216
D2.5	v)three phase underground cables	25,74,397	-	-	2,28,99,076	-	53,04,856	-	-	-	2,72,880	-	-	-	8,15,47,569	-	-	-	-	-	-	11,25,98,778
D2.6	vi)single phase underground cables (with sizes)	5,11,765	-	-	68,22,797	-	-	-	-	-	-	-	-	-	2,25,24,028	-	-	-	-	-	-	2,98,58,590
	service lines	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D3	Vehicles	-	-	-	-	-	-	8,00,000	-	-	-	-	-	-	-	-	-	-	-	-	-	8,00,000
D4	Furnitures & Fixtures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D5	Office Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D6	Street Light Fixtures	25,31,473	-	-	1,46,84,006	32,96,546	62,12,102	15,78,611	-	-	13,67,799	7,91,575	-	-	2,91,04,088	-	17,54,842	12,43,600	-	-	-	6,25,64,642
D7	IT Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sr. no.	Brief Description of Assets and Classification Code	Div I	Div II	Div III	Div IV	Div V	Div VI	Div VII	Div VIII	Div IX	Div X	Div XI	Div XII	Div XIII	Div XIV	Div XV	Div XVI	Div XVII	H.O.	SE I	SE II	Total
D8	Testing & Measuring Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D8.1	Single Phase Meters(New & Replacement)	2,29,04,388	-	-	1,02,50,027	51,27,852	24,00,688	18,84,975	1,27,500	-	9,90,197	12,82,650	-	-	3,79,554	-	8,46,378	15,06,596	-	-	-	4,77,00,805
D8.2	Three Phase Meters (New & replacement)	57,06,518	-	-	1,23,79,696	4,51,356	39,93,560	4,72,540	5,60,800	-	8,04,140	2,71,612	-	-	3,11,280	-	11,24,472	1,94,550	-	-	-	2,62,70,524
D8.3	HT Meters (New & replacement)	-	-	-	1,27,192	-	-	5,44,784	5,79,08,925	-	-	24,42,000	-	-	14,09,500	-	70,475	-	-	-	-	6,25,02,876
D9	Plant & Machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D10	Distribution Accessories	5,74,381	-	-	9,32,24,453	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,37,98,834
D11	Batteries	-	-	-	-	-	-	-	-	5,400	-	-	-	-	-	-	-	-	-	-	-	5,400
S	New Substations	-	-	-	-	-	7,15,68,750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,15,68,750
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	Administrative Offices (Others)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A1	Vehicles	-	-	-	-	-	-	-	-	-	1,16,402	-	-	-	-	-	-	-	-	-	-	1,16,402
A2	Furnitures and fixtures	-	38,321	-	-	-	-	-	59,815	-	-	-	-	-	-	-	-	-	2,17,000	1,59,266	13,975	4,88,377
A3	Office Equipments	-	12,360	-	-	-	-	5,29,019	-	-	-	-	-	-	-	-	64,112	-	1,83,858	-	-	7,89,349
A4	IT Equipments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28,34,885	-	-	28,34,885
A5	Testing & Measuring Equipments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A6	Crane Truck	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	RCC Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AL	Administrative Land & Buildings (Others)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AL1	Land	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AL2	Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Grand Total	18,72,56,332	50,681	39,55,129	30,92,71,111	1,69,58,626	25,42,73,903	1,14,32,281	6,50,19,018	2,81,006	10,78,11,391	99,60,513	76,989	5,91,375	14,14,42,797	-	75,90,179	13,87,45,490	32,35,743	1,59,266	13,975	1,25,81,25,806