PETITION TO

JOINT ELECTRICITY REGULATORY COMMISSION

ANNUAL PERFORMANCE REVIEW FOR FY 2014-15, MULTI YEAR TARIFF (MYT) FOR FIRST CONTROL PERIOD OF FY 2015-16 TO FY 2017-18 AND TARIFF PROPOSAL FOR FY 2015-16

OF

ELECTRICITY DEPARTMENT, GOA

ARR PETITION & FORMATS

Submitted to JOINT ELECTRICITY REGULATORY COMMISSION,

GURGAON

By



ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA PANAJI

JANUARY 2015

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 Annual Performance Review of FY 2014-15, Multi Year Tariff for the First Control Period of FY 2015-16 to FY 2017-18 and Tariff Proposal for FY 2015-16 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 Vidyut Bhavan, Panaji, GoaPetitioner

Electricity Department, Government of Goa (hereinafter referred to as "ED-Goa"), files petition for approval of Annual Performance Review of FY 2014-15 and Multi Year Tariff for Control Period of FY 2015-16 to FY 2017-18 and Tariff Proposal for FY 2015-16 under Section 45, 46, 61, 62, 64 and 86 of the Electricity Act, 2003.

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, GoaPetitioner

AFFIDAVIT VERIFYING THE PETITION

I, Shri Lekshmanan S., son of Shri. Shridharan K. V. aged 60 years residing at, Vasco, Goa, 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.
- I say that on behalf of ED-Goa, I am now filing this Petition under The Electricity Act, 2003 for approval of Annual Performance Review of FY 2014-15 and Multi Year Tariff for the Control Period of FY 2015-16 to FY 2017-18 and Tariff Proposal for FY 2015-16 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.

The Electricity Department, Government of Goa DEPONENT

Place: Panaji, Goa Dated:

VERIFICATION

I, ______ 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 _____ day of January 2015 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

Filing No.....

Case No.....

IN THE MATTER OF: Petition approval of Annual Performance Review of FY 2014-15, Multi Year Tariff for the First Control Period for FY 2015-16 to FY 2017-18 and Tariff Proposal for FY 2015-16 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 Vidyut Bhavan, Panaji, GoaPetitioner

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 APPROVAL OF THE MULTI YEAR TARIFF PETITION AND TARIFF PROPOSAL OF ELECTRICITY DEPARTMENT OF GOA (herein after referred to as "ED-Goa") FOR FY 2015-16.

The Petitioner respectfully submits as under: -

- 1. The Petitioner, The Electricity Department Goa (ED-Goa) has been allowed to function as Distribution Utility for the State of Goa.
- Pursuant to the enactment of the Electricity Act, 2003, ED-Goa 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. ED-Goa filed its ARR and Tariff petition for determination of tariff for FY 2014-15 on 13th January 2014 on the basis of the principles outlined in the Tariff Regulations 2009 notified by the Hon'ble Commission.



- 4. After conducting public hearings, the Hon'ble Commission issued Tariff order on 15th April 2014.
- The Hon'ble Commission further issued Multi Year Tariff Distribution (MYT) Regulations notified on 29th May 2014 (hereinafter referred as MYT Regulations 2014).
- 6. ED-Goa hereby submits the present petition for approval of Annual Performance Review (APR/ Review) of FY 2014-15 and Multi Year Tariff for the Control Period of FY 2015-16 to FY 2017-18 and Tariff Proposal for FY 2015-16 based on the principles outlined in the Tariff Regulations 2009 and MYT Regulations 2014, notified by the Hon'ble Commission.
- 7. ED-Goa prays to the Hon'ble Commission to admit the attached petition for Annual Performance Review of FY 2014-15 and Multi Year Tariff for the Control Period of FY 2015-16 to FY 2017-18 and Tariff Proposal for FY 2015-16 and would like to submit that:

Prayers to the Commission:

- A. The petition provides, inter-alia, ED-Goa's approach for formulating the present petition, the broad basis for projections used, performance of ED-Goa in the recent past, and certain issues impacting the performance of ED-Goa in the Licensed Area.
- B. Broadly, in formulating the APR for FY 2014-15, 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 2015-16 to FY 2017-18 based on the principles specified by MYT Regulations 2014.
- D. In order to align the thoughts and principles behind the ARR/MYT and Tariff Petition, ED-Goa respectfully seeks an opportunity to present its case prior to the finalization of the Tariff Order. ED-Goa 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:

- Accept the petition for Annual Performance Review of FY 2014-15 and Multi Year Tariff for the Control Period of FY 2015-16 to FY 2017-18 and Tariff Proposal for FY 2015-16 which is in line with the principles laid by Joint Electricity Regulatory Commission contained in MYT Regulations 2014 and Tariff Regulations 2009;
- Approve the Review for FY 2014-15 at Rs. 1,565.59 Crores, ARR for FY 2015-16 at Rs. 1,650.60 Crores, ARR for FY 2016-17 at Rs. 1,808.02 Crores and ARR for FY 2017-18 at Rs. 2,048.75 Crores.
- To consider the Tariff Design Philosophy and approve the proposed changes in Tariff Schedule (rationalisation of tariff categories & changes in applicability clauses) for FY 2015-16 which is in line with previous directions of Hon'ble Commission;
- Approve the proposed Revenue Gap of Rs. 929.49 Crs, Tariff Increase of Rs.
 224.07 Crs and Creation of Regulatory Asset for balance revenue gap;
- Examine the proposal submitted by the petitioner as detailed in the enclosed proposal for a favourable dispensation.
- 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.
- Pass suitable orders with respect to APR for FY 2014-15 and MYT for FY 2015-16 to FY 2017-18 for the expenses to be incurred by ED - Goa for serving its consumers;
- ED Goa may also be permitted to propose suitable changes to the APR for 2014-15 and MYT for FY 2015-16 to FY 2017-18 and any such data/information related to it, prior to the final approval by the Hon'ble Commission of the petition submitted;
- Condone any inadvertent omissions/errors/shortcomings and permit ED Goa to add/change/modify/alter this filing and make further submissions as may be required at a future date.
- Pass such further orders, as the Hon'ble Commission may deem fit and appropriate keeping in view the facts and circumstances of the case.



Electricity Department, Government of Goa

Petitioner

Place: Panaji Dated: ____ January 2015



TABLE OF CONTENTS

СНАРТЕ	ER 1. INTRODUCTION	
1.1	BACKGROUND OF ELECTRICITY DEPARTMENT	
1.2	FILING OF PETITION	
СНАРТЕ	ER 2. OVERALL APPROACH FOR PRESENT FILING.	15
2.1	PROVISIONAL TRUING UP FOR FY 2013-14	
2.2	ANNUAL PERFORMANCE REVIEW FOR FY 2014-1	515
2.3	MULTI-YEAR TARIFF FOR FY 2015-16 TO FY 201	7-18 AND TARIFF PROPOSAL FOR FY 2015-16
		15
2.4	MIS Issues	
СНАРТЕ	ER 3. PROVISION PERFORMANCE FOR FY 2013-14	17
3.1	STATUS OF TRUING-UP FOR FY 2013-14	
3.2	PROVISION ENERGY BALANCE FOR FY 2013-14	
3.3	PROVISIONAL FINANCIAL PERFORMANCE FOR FY 2	013-1418
СНАРТЕ	ER 4. ANNUAL PERFORMANCE REVIEW FOR FY 2	014-15
4.1	BACKGROUND TO FY 2014-15 PETITION	
4.2	Review for FY 2014-15	21
4.3	NUMBER OF CONSUMERS	
4.4	CONNECTED LOAD	24
4.5	Energy Sales	
4.6	T&D Loss & Energy Requirement	
4.7	Power Purchase Quantum & Cost for FY 14	-1533
4.8	OPERATION & MAINTENANCE EXPENSES	41
4.9	CAPITAL WORK IN PROGRESS, GFA AND DEPRECIA	ATION
4.10	0 Interest & Finance Charge	47
4.11	1 INTEREST ON WORKING CAPITAL	49
4.12	2 INTEREST ON SECURITY DEPOSIT	
4.13	3 RETURN ON CAPITAL BASE/ NET FIXED ASSETS	51
4.14	4 Non Tariff Income	
4.15	5 REVENUE FROM RETAIL SALE OF POWER	
4.16	6 Aggregate Revenue Requirement for FY 201	4-1553
СНАРТЕ	ER 5. MUTLI YEAR TARIFF FOR FY 2015-16 TO FY	2017-1855
5.1	Preamble	55
5.2	Principles of ARR	55
5.3	NUMBER OF CONSUMERS	56
5.4	CONNECTED LOAD	57
5.5	Energy Sales Forecast	58
5.6	T&D Loss	59



5.7	ENERGY BALANCE	60
5.8	Power Purchase Quantum and Cost	62
5.9	OPERATION AND MAINTENANCE (O&M EXPENSES)	71
5.10	CAPITAL EXPENDITURE	75
5.11	DEPRECIATION	77
5.12	INTEREST ON LOAN	78
5.13	INTEREST ON WORKING CAPITAL	81
5.14	RETURN ON EQUITY	83
5.15	INTEREST ON SECURITY DEPOSIT	84
5.16	Non Tariff Income	84
5.17	AGGREGATE REVENUE REQUIREMENT	85
5.18	Revenue from Existing Tariff	85
5.19	REVENUE GAP FOR ENTIRE CONTROL PERIOD	86
СНАРТЕ	R 6. PROPOSAL TO MEET ARR AND CUMMULATIVE GAP FOR FY 2015-16	88
6.1	CUMULATIVE REVENUE GAP OF FY 2015-16	88
6.2	Formation of Regulatory Asset	90
СНАРТЕ	R 7. TARIFF PHILOSOPHY	92
7.1	Present Tariff Structure	92
7.2	TARIFF PHILOSOPHY	
СНАРТЕ	R 8. PROPOSED TARIFF SCHEDULE FOR FY 2015-16	
СНАРТЕ		98
СНАРТЕ 8.1	GENERAL CONDITIONS AND DEFINITIONS	98 98
СНАРТЕ	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES	98
снарте 8.1 8.2	General Conditions and Definitions Miscellaneous and General Charges Tariff Schedule – LT Consumers	98
CHAPTE 8.1 8.2 8.3	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS	
CHAPTE 8.1 8.2 8.3 8.4	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1 9.2	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY SEGREGATION OF WHEELING & RETAIL SUPPLY ARR FOR CONTROL PERIOD	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1 9.2 CHAPTE	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY SEGREGATION OF WHEELING & RETAIL SUPPLY ARR FOR CONTROL PERIOD R 10. OPEN ACCESS CHARGES	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1 9.2 CHAPTE 10.1	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY SEGREGATION OF WHEELING & RETAIL SUPPLY ARR FOR CONTROL PERIOD R 10. OPEN ACCESS CHARGES APPROACH FOR COMPUTATION OF OPEN ACCESS CHARGES	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1 9.2 CHAPTE 10.1 10.2	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY SEGREGATION OF WHEELING & RETAIL SUPPLY ARR FOR CONTROL PERIOD R 10. OPEN ACCESS CHARGES APPROACH FOR COMPUTATION OF OPEN ACCESS CHARGES COMPUTATION OF WHEELING CHARGES & LOSSES	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1 9.2 CHAPTE 10.1 10.2 10.3	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY SEGREGATION OF WHEELING & RETAIL SUPPLY ARR FOR CONTROL PERIOD R 10. OPEN ACCESS CHARGES APPROACH FOR COMPUTATION OF OPEN ACCESS CHARGES COMPUTATION OF WHEELING CHARGES & LOSSES COMPUTATION OF CROSS SUBSIDY SURCHARGE	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1 9.2 CHAPTE 10.1 10.2 10.3 CHAPTE	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY SEGREGATION OF WHEELING & RETAIL SUPPLY ARR FOR CONTROL PERIOD R 10. OPEN ACCESS CHARGES APPROACH FOR COMPUTATION OF OPEN ACCESS CHARGES COMPUTATION OF WHEELING CHARGES & LOSSES COMPUTATION OF CROSS SUBSIDY SURCHARGE R 11. COMPLIANCE TO DIRECTIVES GIVEN BY JERC	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1 9.2 CHAPTE 10.1 10.2 10.3 CHAPTE 11.1	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY SEGREGATION OF WHEELING & RETAIL SUPPLY ARR FOR CONTROL PERIOD R 10. OPEN ACCESS CHARGES APPROACH FOR COMPUTATION OF OPEN ACCESS CHARGES COMPUTATION OF WHEELING CHARGES & LOSSES COMPUTATION OF CROSS SUBSIDY SURCHARGE R 11. COMPLIANCE TO DIRECTIVES GIVEN BY JERC	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1 9.2 CHAPTE 10.1 10.2 10.3 CHAPTE 11.1 11.2	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY SEGREGATION OF WHEELING & RETAIL SUPPLY ARR FOR CONTROL PERIOD R 10. OPEN ACCESS CHARGES APPROACH FOR COMPUTATION OF OPEN ACCESS CHARGES COMPUTATION OF WHEELING CHARGES & LOSSES COMPUTATION OF CROSS SUBSIDY SURCHARGE R 11. COMPLIANCE TO DIRECTIVES GIVEN BY JERC ANNUAL STATEMENTS OF ACCOUNTS PREPARATION OF ASSET AND REGISTER	
CHAPTE 8.1 8.2 8.3 8.4 8.5 CHAPTE 9.1 9.2 CHAPTE 10.1 10.2 10.3 CHAPTE 11.1 11.2 11.3	GENERAL CONDITIONS AND DEFINITIONS MISCELLANEOUS AND GENERAL CHARGES TARIFF SCHEDULE – LT CONSUMERS TARIFF SCHEDULE – HT CONSUMERS SCHEDULE OF MISCELLANEOUS CHARGES FOR FY 2015-16 R 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS ALLOCATION POLICY SEGREGATION OF WHEELING & RETAIL SUPPLY ARR FOR CONTROL PERIOD R 10. OPEN ACCESS CHARGES APPROACH FOR COMPUTATION OF OPEN ACCESS CHARGES COMPUTATION OF WHEELING CHARGES & LOSSES COMPUTATION OF CROSS SUBSIDY SURCHARGE R 11. COMPLIANCE TO DIRECTIVES GIVEN BY JERC	



11.5 TRUE-UP OF FY 2011-12 AND FY 2012-13	.146
11.6 Creating Consumer Awareness	.147
11.7 Steps taken to enhance Automation in Department	.147
11.8 MEETING RPO FOR PAST YEARS	.148



LIST OF TABLES

TABLE 3-1: PROVISIONAL ENERGY BALANCE FOR FY 2013-14	. 17
TABLE 3-2: ENERGY INPUT AT PERIPHERY FOR FY 2013-14	. 18
TABLE 3-3: PROVISIONAL ARR FOR FY 2013-14	. 19
TABLE 3-4: REVENUE GAP FOR FY 2013-14	. 20
TABLE 4-1: ARR APPROVED BY JERC – FY 2014-2015	. 22
TABLE 4-2: NUMBER OF CONSUMERS – FY 2014-2015	. 23
TABLE 4-3: CONNECTED LOAD – FY 2014-15	. 25
TABLE 4-4: SALES FOR FY 2014-15	. 27
TABLE 4-5: ENERGY INPUT FOR WR & SR: FY 14-15 – H1	. 28
TABLE 4-6: ENERGY BALANCE FOR H1 MU'S	. 29
TABLE 4-7: PGCIL LOSSES FOR WR FOR H2 FY 2013-14	. 30
TABLE 4-8: ENERGY BALANCE FOR FY 14- 15	32
TABLE 4-9: COMPARISON OF ENERGY BALANCE FOR FY 14- 15	. 33
TABLE 4-10: POWER PURCHASE QUANTUM & COST FOR H1 – FY 14-15	34
TABLE 4-11: DSM POWER (OVER DRAWL & UNDER DRAWL) CHARGES FOR FY 15 - H1	. 35
TABLE 4-12: TRANSMISSION CHARGES FOR FY 2014-15 H1	
TABLE 4-13: POWER PURCHASE FROM SHORT TERM TRADERS FOR H2 OF FY 2014-15	36
TABLE 4-14: SOLAR & NON-SOLAR RPO STATUS FY14-15	. 38
TABLE 4-15: TRANSMISSION CHARGES PART-A FOR FY 2014-15 H2	. 39
TABLE 4-16: TRANSMISSION CHARGES PART-B FOR FY 2014-15 H2	. 39
TABLE 4-17: SUMMARY OF TRANSMISSION CHARGES FOR H2 FY 2014-15	40
TABLE 4-18: POWER PURCHASE SUMMARY FOR FY 2014-15	
TABLE 4-19: O&M EXPENSES FOR FY 2014-15	43
TABLE 4-20: CAPITAL EXPENDITURE & CAPITALISATION FOR FY 2014-15	. 45
TABLE 4-21: CWIP FOR FY 2014-15	46
TABLE 4-22: DETAILS OF GFA FOR FY 2014-15	46
TABLE 4-23: DEPRECIATION FOR FY 2014-15	46
TABLE 4-24: INTEREST & FINANCE CHARGES FOR FY 2014-15	49
TABLE 4-25: INTEREST ON WORKING CAPITAL FOR FY 2014-15	. 50
TABLE 4-26: INTEREST ON SECURITY DEPOSIT FOR FY 2014-15	. 51
TABLE 4-27: RETURN ON CAPITAL BASE FOR FY 2014-15	. 51
TABLE 4-28: REVENUE FROM SALE OF POWER FOR FY 2014-15	. 53
TABLE 4-29: AGGREGATE REVENUE REQUIREMENT FOR FY 2014-15	
TABLE 4-30: REVENUE GAP FOR FY 2014-15	. 54
TABLE 5: NUMBER OF CONSUMERS FOR FY 2015-16 TO FY 2017-18	. 57
TABLE 6: CONNECTED LOAD FOR FY 2015-16 TO FY 2017-18	. 58
TABLE 8: SALES PROJECTION FOR FY 2015-16 TO FY 2017-18	. 59
TABLE 9: T&D LOSS TRAJECTORY FOR FIRST CONTROL PERIOD	60
TABLE 10: ENERGY BALANCE FOR THE ENTIRE CONTROL PERIOD	. 61
TABLE 11: POWER PURCHASE QUANTUM FOR FY 2015-16 TO FY 2017-18	. 63
TABLE 41: FIXED COST AND VARIABLE COST FOR CGS FOR ENTIRE CONTROL PERIOD	
TABLE 42: DETAILS OF RPO OBLIGATION FOR ED-GOA FOR ENTIRE CONTROL PERIOD	
TABLE 43: ESCALATION FOR TRANSMISSION CHARGES	. 68
TABLE 44: TRANSMISSION CHARGES FOR WITHDRAWAL OF POWER	. 68
TABLE 45: TRANSMISSION CHARGES FOR GENERATORS	. 69
TABLE 46: SUMMARY OF TRANSMISSION CHARGES FOR THE CONTROL PERIOD	. 69



TABLE 47: POWER PURCHASE QUANTUM AND COST FOR THE ENTIRE CONTROL PERIOD	70
TABLE 48: INFLATION CONSIDERED FOR FY 2015-16 TO FY 2017-18	74
TABLE 49: OPERATION AND MAINTENANCE EXPENSE FOR FY 2015-16 TO FY 2017-18	74
TABLE 50: CAPITAL EXPENDITURE AND CAPITALIZATION FOR FY 2015-16 TO FY 2017-18	
TABLE 51: DEPRECIATION FOR FY 2015-16 TO FY 2017-18	
TABLE 52: NET GFA ADDITIONS FOR FY 2015-16 TO FY 2017-18	
TABLE 53: INTEREST ON LOAN FOR FY 2015-16 TO FY 2017-18	
TABLE 54: INTEREST ON WORKING CAPITAL FOR FY 2015-16 TO FY 2017-18	
TABLE 55: RETURN ON EQUITY FOR FY 2015-16 TO FY 2017-18	
TABLE 56: INTEREST ON SECURITY DEPOSIT FOR FY 2015-16 TO FY 2017-18	
TABLE 57: NON TARIFF INCOME FOR FY 2015-16 TO FY 2017-18	
TABLE 58: NET AGGREGATE REVENUE REQUIREMENT FOR FY 2015-16 TO FY 2017-18	
TABLE 59: REVENUE FROM SALE OF POWER FOR FY 2015-16	
TABLE 60: REVENUE GAP FOR FY 2015-16 TO FY 2017-18	
TABLE 61: CUMULATIVE REVENUE GAP UP TO FY 2015-16	
TABLE 62: REVENUE GAP AFTER TARIFF REVISION ON PROPOSED TARIFF STRUCTURE	
TABLE 63: FIXED COST OBLIGATION VS FIXED CHARGES RECOVERY FY 2015-16	95
TABLE 64: COMPARISON OF MISCELLANEOUS CHARGES WITH OTHER STATES	
TABLE 65: PROPOSED SCHEDULE OF MISCELLANEOUS CHARGES	133
TABLE 20: ALLOCATION STATEMENT WHEELING & RETAIL SUPPLY	137
TABLE 21: SEGREGATION OF ARR INTO WHEELING & RETAIL SUPPLY FOR CONTROL PERIOD	
TABLE 68: WHEELING CHARGES AND LOSSES FOR FY 2015-16	
TABLE 69: COMPUTATION OF TOP 5% POWER FOR FY 2015-16	
TABLE 70: COMPUTATION OF TOTAL COST FOR FY 2015-16	
TABLE 71: COMPUTATION OF CROSS SUBSIDY SURCHARGE FOR FY 2015-16	142

LIST OF FIGURES

LIST OF ANNEXURES

ANNEXURE I: POWER ALLOCATION STATEMENTS	150
ANNEXURE II: MONTH WISE POWER PURCHASE DETAILS – FY 2013-14	152
ANNEXURE III: MONTH WISE TRANSMISSION CHARGES DETAILS – FY 2013-14	
ANNEXURE IV: MONTH WISE POWER PURCHASE DETAILS FOR FY 2014-15	179
ANNEXURE V: MONTH WISE TRANSMISSION CHARGES DETAILS - FY 2013-14	196
ANNEXURE VI: SBI PLR RATE	199
ANNEXURE VII: RBI BANK RATE NOTIFICATION	
ANNEXURE VIII: LETTER TO GOVERNMENT FOR SECURITY DEPOSIT	201
ANNEXURE IX: PUBLIC AWARENESS IN LOCAL NEWS PAPERS	202
ANNEXURE X: POWER SALE AGREEMENT FROM SECI	204

TARIFF FILING FORMATS



List of Abbreviations

Sr. No	Abbreviations	Descriptions	
1.	A&G	Administrative and General	
2.	AC	Auxiliary Consumption	
3.	ABR	Average Billing Rate	
4.	APR	Annual Performance Review	
5.	ARR	Aggregate Revenue Requirement	
6.	CAGR	Compound Annual Growth Rate	
7.	CAPEX	Capital Expenditure	
8.	CERC	Central Electricity Regulatory Commission	
9.	JERC	Joint Electricity Regulatory Commission	
10.	CGS	Central Generating Station	
11.	CoS	Cost of Supply/ Service	
12.	CPPs	Captive Power Plants	
13.	Crs	Crores	
14.	CWIP	Capital Work in Progress	
15.	DF	Distribution Franchisee	
16.	DISCOM	Distribution Companies	
17.	DPC	Delayed Payment Charges	
18.	DSM	Demand Side Management	
19.	DTC	Distribution Transformer	
20.	EA	The Electricity Act 2003 (The Act)	
21.	EDG/ED-Goa	Electricity Department-Goa	
22.	FY	Financial Year	
23.	GFA	Gross Fixed Assets	
24.	G.O.G	Government Of Goa	
25.	Gol	Government of India	
26.	HR	Human Resource	
27.	HT	High Tension	
28.	IPP	Independent Power Producers	
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.	LF	Load Factor	
35.	LT	Low Tension	
36.	MD	Maximum Demand	



Sr. No	Abbreviations	Descriptions	
37.	MOD	Merit Order Despatch	
38.	MoP	Ministry of Power	
39.	MOU	Memorandum of Understanding	
40.	MU	Million Units (Million kWh)	
41.	MVA	Mega Volt Ampere	
42.	MW	Mega Watt	
43.	MYT	Multi Year Tariff	
44.	NEP	National Electricity Policy	
45.	NTP	National Tariff Policy	
46.	NTPC	National Thermal Power Corporation	
47.	0&M	Operation & Maintenance	
48.	PAF	Plant Availability Factor	
49.	PF	Provident Fund	
50.	PFC	Power Finance Corporation	
51.	PLF	Plant Load Factor	
52.	PLR	Prime Lending Rate	
53.	РРА	Power Purchase Agreement	
54.	R-APDRP	Restructured-Accelerated Power Development and Reform Programme	
55.	REC	Rural Electrification Corporation	
56.	R&M	Repair and Maintenance	
57.	ROE	Return on Equity	
58.	RPO	Renewable Purchase Obligation	
59.	Rs	Rupees	
60.	SBI	State Bank of India	
61.	T&D	Intra State Transmission and Distribution	
62.	w.e.f	With effect from	
63.	Y-0-Y	Year on Year	



CHAPTER 1. INTRODUCTION

1.1 Background of Electricity Department

- 1.1.1 The Electricity Department was formed in January 1963 under the Government of Goa, Daman & Diu. It is the only licensee now 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. The total firm allocation of power from central sector is approx 480 MW excluding share of RGPPL. The power allocation statement is attached as Annexure I of this Petition. The peak demand recorded during September 2014 is 500 MW and in summer months it is expected to reach 550 MW. In addition, the department also purchases power from Co-generation, Exchange and Traders.
- 1.1.2 ED-Goa is under control of State Government and the maintenance of the accounts or Income and expenditure statement is on "cash" basis unlike other utilities/ licensees where it is being maintained on "accrual" basis. ED-Goa has already started preparing audited annual accounts for FY 2007-08 onwards on "accrual" basis.
- 1.1.3 The present unrestricted demand for the State of Goa is about 500-525 MW which is being met by power from various Central Sector Power Stations and generating stations within state (from traders, IEX, also). The Electricity Department of Goa caters to around 6 Lacs consumers with an annual energy consumption of approx 3000 MUs. The consumption of consumers of the Electricity Department of Goa is classified as under:
 - Domestic (27% of consumption)
 - Commercial (10% of consumption)
 - Industrial (56% of consumption)
 - Public Water Works (5% of consumption)
- 1.1.4 As seen from the above classification, the energy consumption of Industrial consumers is the highest (56%) amongst all these categories.

1.2 Filing of Petition

1.2.1 The Regulation 8 of Tariff Regulations 2009 provides for filing of Review before Commission.



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-actual 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'.

1.2.2 The Regulation 4 of MYT Regulations 2014 provides for filing of MYT Petition and the framework.

4. Multi Year Tariff Framework

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:

4.2 The Multi-Year Tariff framework shall be based on the following elements, for calculation of Aggregate Revenue Requirement and expected revenue from tariff and charges for Distribution Business:

i. Control Period, before commencement of which a forecast of the Aggregate Revenue Requirement and expected revenue from existing tariff and charges shall be submitted by the applicant and approved by the Commission;

ii. A detailed Business Plan based on the Operational Norms and trajectories of performance parameters specified in these Regulations, for each year of the Control Period, shall be submitted by the applicant for the Commission's approval;

iii. Based on the Business Plan as approved by the Commission by order, the applicant shall submit a petition with the forecast of Aggregate Revenue Requirement and expected revenue from existing tariff for each year of the Control Period, and the Commission shall approve the tariff for each year of the Control Period;

iv. The mechanism for pass-through of approved gains or losses on account of uncontrollable factors as specified by the Commission in these Regulations;

v. The mechanism for sharing of approved gains or losses arising out of controllable factors as specified by the Commission in these Regulations;



"20.3 The information to be provided shall also include...

...... (c) A statement of the proposed tariff rate, price and charge, including a ful statement of all applicable terms and conditions, as compared to those referred to (i) above. This statement should be shown in a form appropriate to the proposed tariff structure. Details should also be supplied of the publicity intended to be given to new tariff options when they are to be implemented.

(d) A statement of the expected full-year revenue of the proposed tariff for the year in which the tariff is to be implemented.....

- 1.2.3 ED-Goa filed the affidavit on 1st October 2014 seeking extension for filing Business Plan for the control period FY 2015-16 to FY 2017-18 up to 30th November 2014 as e-tendering process for appointment of consultant was in process and there was likely delay in finalisation of business plan. The Hon'ble Commission granted the extension up to 30th November 2014 vide its letter dated 17th October 2014.
- 1.2.4 Thereafter ED-Goa filed an affidavit on 17th November 2014 as there was change and re-shuffling of Government and also appointment of consultant was pending. ED-Goa sought an extension for filing of Business Plan and MYT Petition up to 31st January 2015. However Hon'ble Commission granted time up to 20th December 2014.
- 1.2.5 ED-Goa filed another affidavit on 18th December 2014 seeking extension up to 31st Jan 2015 as new Government was recently formed and also billing agency for LT was handed over to new agency M/s. Goa Electronics Ltd by replacing all other agencies. After the expiry of PPA with Reliance IPP, the consumers earlier being served by Reliance IPP have got shifted to ED-Goa's network. Pending availability of this data, MYT projections would have got affected as the consumption is substantial. The Hon'ble Commission vide its letter dated 19th Dec 2014 granted an extension for filing till 15th January 2015.
- 1.2.6 ED-Goa has prepared the MYT petition based on the norms, trajectories, forecasts provided in the Business Plan, which is filed along with this Petition.



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. In line with the same, ED – Goa has been filing the ARR petitions for consideration of the Hon'ble Commission in the formats laid down for providing information relating to past, present and expected future performance. The JERC Tariff Regulations 2009 would be applicable for True-up of FY 2013-14 and Review of FY 2014-15.

The Hon'ble Commission further issued Multi Year Tariff Distribution (MYT) Regulations notified on 29th May 2014 (hereinafter referred as MYT Regulations 2014) which are applicable for the control period of FY 2015-16 to FY 2017-18.

2.1 Provisional Truing up for FY 2013-14

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. ED-Goa submits that it is in process of finalisation of audited accounts from FY 2010-11 to FY 2013-14. ED-Goa shall approach Hon'ble Commission for final truing-up of FY 2011-12 & FY 2013-14 at a later date when audited accounts are available. However at present the provisional figures of FY 2013-14 are made available based on unaudited accounts, for ARR & tariff petition exercise purpose in next chapter.

2.2 Annual Performance Review for FY 2014-15

- 2.2.1 As specified in the Tariff Regulations 2009, the Hon'ble Commission shall undertake the Annual Performance Review by considering variations between the approved and revised estimates of sale of electricity, income and expenditure for the relevant year.
- 2.2.2 Accordingly, ED Goa is filing this Annual Performance Review petition for the year FY 2014-15 based on the actual performance during the 1st half of the year and the revised estimates for the second half of the year. The basis of estimates taken in the second half is detailed in the chapter for review of FY 2014-15.

2.3 Multi-year Tariff for FY 2015-16 to FY 2017-18 and Tariff Proposal for FY 2015-16

2.3.1 The MYT Regulations 2014 provide that MYT Petition shall be based on approved Business Plan by Hon'ble Commission. ED-Goa has submitted the Business Plan to Hon'ble Commission and has covered following elements in detail:



- a) Allocation Policy for Segregation of Wires & Supply ARR;
- b) Category wise Sales Projection
- c) Source wise Power Purchase Plan
- d) Transmission and Distribution Loss Trajectory
- e) Capital Investment Plan
- f) Operation & Maintenance Norms (for Employee Expenses, Administration & General Expenses and Repairs & Maintenance Expenses)
- 2.3.2 However considering delay in filing the petition of Business Plan, the figures submitted in the Business Plan are considered as the base for MYT projections.
- 2.3.3 Considering the above submissions in Business Plan, detailed Annual Revenue Requirement for each year of MYT has been projected.
- 2.3.4 ED-Goa has also submitted the tariff proposal for FY 2015-16 with proposed changes in tariff structure and tariff increase to recover part revenue gap. The details about the tariff structure are covered in Tariff Philosophy & Tariff Schedule chapter.

2.4 MIS Issues

- 2.4.1 ED-Goa submits that the meter reading, billing and collection process is being streamlined and is going through a transformation phase. In the past it was maintained by several different outsourced agencies separately in each division and each agency had its separate logic for calculation and bill generation.
- 2.4.2 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.
- 2.4.3 It is therefore submitted that due to the above reasons, the actual T&D Loss may be different than what is being projected in this Petition. The Hon'ble Commission may allow ED-Goa to revise the T&D loss figures whenever the data gets finalized.



CHAPTER 3. PROVISION PERFORMANCE FOR FY 2013-14

3.1 Status of Truing-up for FY 2013-14

- 3.1.1 ED-Goa as per directive of Hon'ble Commission has appointed Consultant for preparation and finalisation of Financial Statements required for truing-up purposes. The compliance details are discussed at paragraph **11.5** of Directives chapter. ED–Goa is almost ready with the annual accounts for FY 2007-08 to FY 2009-10 for which queries of CAG audit are under process.
- 3.1.2 As mentioned in the approach, ED-Goa is not seeking Final truing-up of ARR for FY 2013-14 as audited accounts are pending.

3.2 Provision Energy Balance for FY 2013-14

3.2.1 ED-Goa in this chapter submits the provisional energy balance for FY 2013-14 as against approved figures by Hon'ble Commission.

				In MUs
Sr. No.	ltem	Submitted earlier in petition	Approved in T.O.	Provisional
1	2	3	4	5
1	Retail Sales to Consumers	3,018	2,962	2,977
	Add: Distribution Losses - %	12.50%	12.00%	13.86%
	Distribution Losses - MUs	431	404	479
2	Energy Requirement at Goa Periphery	3,449	3,366	3,456
3	Total Power Scheduled by ED-Goa			
	Scheduled Power from NTPC, RGPPL, NPCIL & RSTPS	3,351	3,385	3,396
	Add: Actuals of Over/Underdrawal	46	52	32
	Add: Power from Open Market/ Traders	78		
	Less: Sales through Exchanges & Traders	-		
	Total	3,475	3,437	3,428
4	Less: PGCIL Losses - %	4.79%	4.47%	4.69%
	PGCIL Losses - MUs	166	159	161
5	Total Power Purchased within Goa State			
	Add: Co-generation & Renewable Sources	29	29	74
	Add: Independent Power Producers (IPP)	112	59	115
	Total	141	88	189
6	Energy Input at Periphery after PGCIL Losses & State Power Purchase	3,449	3,366	3,456

 Table 3-1: Provisional Energy Balance for FY 2013-14



3.2.2 The details of provisional energy input at periphery (3428-161=3267 MUs) are provided in the table below on monthly basis for Western & Southern region:

Month	Western Region (MUs)	Southern Region (MUs)	Total
Apr-13	226	61	287
May-13	231	64	295
Jun-13	213	41	254
Jul-13	210	42	252
Aug-13	226	40	267
Sep-13	211	47	258
Oct-13	234	43	278
Nov-13	214	53	267
Dec-13	215	61	276
Jan-14	218	60	278
Feb-14	203	56	258
Mar-14	238	59	297
Total	2,640	627	3,267

3.2.3 The details of Sales, Connected Load, and No. of Consumers are provided in Tariff Filing Format -1, Energy Balance at Tariff Filing Format -2 & Source wise Power purchase cost at Tariff Filing Format – 4.

3.3 Provisional Financial Performance for FY 2013-14

- 3.3.1 The details of each and every parameter for FY 2013-14 on provisional basis have been provided in the Tariff Filing Formats.
- 3.3.2 However the summary of provisional ARR for FY 2013-14 as against revised approved figures by the Hon'ble Commission is provided in the table below for reference and future projections/trend purposes.



				Rs. Crores
	Item of expense	ARR	Approved	Revised
Sr. No.		Projection	(Rs.Crs)	Estimates
		(Rs.Crs)		(Rs.Crs)
1	Cost of power purchase	1,087.69	933.41	1,091.39
2	Employee costs	165.00	144.21	168.41
3	R&M expenses	23.38	19.61	25.57
4	Administration and General	11.39	9.08	7.52
	expenses			
5	Depreciation	16.00	16.00	45.94
6	Interest on Loan & Finance	10.01	16.70	70.32
	charges			
7	Interest on Working Capital	6.44	3.84	6.50
8	Interest on Security Deposit	5.49	5.42	7.28
9	Return on NFA /Equity	5.86	5.86	17.98
11	CGRF Expenses	0.56	0.56	0.33
12	Total Revenue Requirement	1,331.82	1,154.69	1,441.24
13	Less: Non Tariff Income	22.55	22.55	5.56
14	Less: Revenue from Sale of	F 00	0.20	
	Power-Exchanges/UI Pool	5.09	8.38	-
15	Provision for RPO Obligation			
	for previous year	-	29.42	
16	Net Revenue Requirement (13-	1,304.18	1,153.18	1,435.69
	14-15-16)	-	-	
17	Revenue from Retail Sales at			
	Existing Tariff including FPPCA	1,016.51	1,014.05	1,012.34
	Charges	-		
18	Budgetary Support (as per	-	139.12	139.12
	review order)			
19	Net Gap (17-18-19)	287.67	0.00	284.22

Table 3-3: Provisional ARR for FY 2013-14

- The month wise breakup for each of the source/ element of Power Purchase and 3.3.3 Transmission charges for the period April 2013 to March 2014 are provided in Annexure II & Annexure III respectively.
- The other details related to capital expenditure, capitalisation, depreciation, 3.3.4 interest on loan, O&M expenses etc are provided in Tariff Filing Formats.
- The details of revenue gap and treatment to revenue gap for FY 2013-14 with 3.3.5 approved and earlier projections figures are tabulated below:



Table 3-4: Revenue Gap for FY 2013-14

				Rs Crore
Sr. No.		Projection	Approved	Revised
51. NO.	r. No. Item of expense		FY 2013-14	FY 2013-14
1	Net ARR for FY 2013-14	1,304.18	1,153.18	1,435.69
2	Less: Revenue at Existing Tariff	1,016.51	1,014.05	1,012.34
	+ FPPCA Charges			
3	Gap at Existing Tariff	287.67	139.12	423.34
4	Less: Revenue from Revised	-	-	
	Tariffs			_
5	Less: Budgetary Support	287.67	139.12	139.12
6	Balance Revenue Gap	-	-	284.22

- 3.3.6 It is submitted that that revenue gap of Rs. **284.22** Crores for FY 2013-14 is not being claimed in this petition as audited financial statements for FY 2013-14 are yet to be prepared. The same would be claimed once audited financial statements are ready for FY 2013-14 and separate petition would be filed before JERC or may be merged in subsequent tariff filing petitions.
- 3.3.7 ED-Goa submits Hon'ble Commission that it may approach separately for filing petition for true-up of FY 2012-13 and FY 2013-14 in September 2015 (depending on final status for Audited Statements till FY 2013-14) or would file true-up in subsequent petition in next year and claim the revenue gap.



CHAPTER 4. ANNUAL PERFORMANCE REVIEW FOR FY 2014-15

4.1 Background to FY 2014-15 Petition

4.1.1 ED – Goa in this chapter submits the performance of each parameter of ARR as against the values approved by the Hon'ble Commission and as projected earlier. This chapter summarizes each of the components of ARR for FY 2014-15 and requests the Hon'ble Commission to review the performance for FY 2014-15. The Annual Performance Review for FY 2014-15 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.

4.2 Review for FY 2014-15

4.2.1 Regulation 8 (1) of the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 states that,

"...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'..."

4.2.2 Further Regulation 13 (2) (ii) 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 sixmonths 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..."

4.2.3 The Hon'ble Commission had issued the Tariff Order for FY 2014-15 on 15th April 2014. For the purpose of ease of reference; the summary of approved ARR vis-a-vis submitted by ED – Goa for FY 2014–15 submitted in the previous filing is reproduced hereunder:

Sr. No.	Item of expense	ARR Projection (Rs.Crs)	Approved (Rs.Crs)
1	Cost of power purchase	1,065.53	933.95
2	Employee costs	177.14	152.42
3	R&M expenses	24.71	20.73
4	Administration and General expenses	9.97	9.60
5	Depreciation	24.42	24.42
6	Interest on Loan & Finance charges	8.96	24.35
7	Interest on Working Capital	4.32	2.85
8	Interest on Security Deposit	6.76	5.89
9	Return on NFA /Equity	11.12	11.12
11	CGRF Expenses	0.75	0.75
12	Total Revenue Requirement	1,333.68	1,186.08
13	Less: Non Tariff Income	23.22	23.22
14	Net Revenue Requirement (12-13)	1,310.46	1,162.86
15	Revenue from Retail Sales at Existing Tariff	1,031.31	1,025.66
	including FPPCA Charges		
16	Net Gap (14-15)	279.15	137.20

ED-Goa would now discuss each of the elements of review in detail for H1 and H2 of FY 2014-15.

4.3 Number of Consumers

4.3.1 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. ED – Goa has been experiencing a constant and nominal growth rate in number of consumers over the last few years and foresees a similar kind of trend in the near future. Further, ED – Goa envisages very little increase in number of consumers which is also in line with that approved by the Hon'ble Commission in its Tariff Order. The table below shows category wise number of consumers for the 1st half (provisional) and at the end of the year FY 2014-15 (Revised Estimates).



Sr.	Category of Consumer	FY14-15	H1 FY15	FY 14-15
No.		(Apprvd)	(Prov.	(Rev.Est)
1	2	3	4	5
Α	Low Tension Supply	588,218	591,534	602,750
1(a)	Tariff LTD/Domestic and Non-	446,515	469,503	478,893
1(0)	Commercial	440,515	405,505	470,000
	First 60 Units		100,512	102,523
	61 to 250 Units		282,784	288,440
	251 to 500 Units		67,964	69,323
	Above 500 Units		18,243	18,607
1(b)	Tariff LTD/Low Income Group	14,321	11,547	11,547
1(c)	Tariff LTD/Domestic Mixed	51	1,405	1,405
	First 400 Units		1,150	1,150
	Above 400 Units		255	255
2	Tariff-LTC/Commercial	96,414	87,335	89,081
	First 100 Units		42,463	43,312
	From 101 to 1000 Units		39,082	39,863
	All Consumption above 1000 Units		5,790	5,906
3 (a)	Tariff-LTP/Motive Power	9,622	6,912	6,981
	Connected Load upto 50 HP		363	366
	Connected Load above 50 HP		6,549	6,615
3 (b)	Tariff-LTP/ Ice Manufacturing	45	63	66
	Connected Load upto 100 HP		63	66
3(a)	Tariff-LTP/Mixed (Hotel Industries)	126	141	148
4	Tariff-LTAG/Agriculture	11,105	11,145	11,145
5	Tariff-LTPL/Public Lighting	9,466	2,740	2,740
6	Tariff-LT PWW/Public Water Works	553	744	744
В	High Tension Supply	839	811	817
7	Tariff HT-Mixed	206	168	168
8(a)	Tariff HTI/Industrial	493	392	396
8(b)	Tariff HTI/Hotel Industries	-	109	110
8(c)	Tariff HTI/Ice Manufacturing	2	2	2
	H.T.Industrial (Ferro Mettallurgical/			
9	Steel Melting/ Power Intensive/	40	37	37
	Steel Rolling)			
	First 300 Units/kVA		20	20
	Next 200 Units/kVA		14	14
	Above 500 Units/kVA		3	3
10	Tariff-HTAG/Agriculture	42	41	41
11	EHTI/Industrial	4	5	5
	H.T. PW/Public Water Supply and	2.1		
12	Sewage	31	34	35
13	H.T. MES/Defence Establishments	13	12	12
14	H.T. Industrial (Steel Rolling)	-	-	-
	First 200 Units/kVA		-	-
	I		-	-
	Next 100 Units/kVA		-	
	Next 100 Units/kVA Above 300 Units/kVA	8	-	-
15	Next 100 Units/kVA	8		-
15	Next 100 Units/kVA Above 300 Units/kVA Tariff HT-Industries (IT High Tech).		- 11 -	
15 C	Next 100 Units/kVA Above 300 Units/kVA Tariff HT-Industries (IT High Tech). Temporary Supply	4,163	- 11 - 5,033	- 12 - 5,033
15 C 16	Next 100 Units/kVA Above 300 Units/kVA Tariff HT-Industries (IT High Tech). Temporary Supply Tariff-LT/Temporary		- 11 -	- - - 5,03 3
15 C	Next 100 Units/kVA Above 300 Units/kVA Tariff HT-Industries (IT High Tech). Temporary Supply	4,163	- 11 - 5,033	

Table 4-2: Number of Consumers – FY 2014-2015



4.4 Connected Load

4.4.1 The category wise connected load for the 1st half and revised estimates for FY 2014-15 is provided in the table below. It has been observed that connected load for ED-Goa has not shown significant variance over the past five years. Therefore ED-Goa has considered a nominal growth of **0.5%** for LT-Domestic and LT-Commercial Consumer over H1 of FY 2014-15 to project connected load of H2 of FY 2014-15. ED-Goa has not considered any growth rate on connected load for rest of the categories and has considered connected load of H2 same as that of H1 of FY 2014-15.

Sr.	r. FY14-15 H1 FY15 F				
No.	Category of Consumer	(Apprvd)	(Prov.	FY 14-15 (Rev.Est)	
1	2	3	4	5	
A	Low Tension Supply (in kW/ HP)			-	
	Tariff LTD/Domestic and Non-				
1(a)	Commercial	1,131,655	1,626,303	1,634,435	
	First 60 Units	242,267	348,163	349,904	
	61 to 250 Units	681,602	979,531	984,429	
	251 to 500 Units	163,816	235,420	236,597	
	Above 500 Units	43,971	63,190	63,506	
1(b)	Tariff LTD/Low Income Group	1,206	2,046	2,046	
1(c)	Tariff LTD/Domestic Mixed	2,198	3,191	3,191	
-(0)	First 400 Units	1,798	2,611	2,611	
	Above 400 Units	400	580	580	
2	Tariff-LTC/Commercial	334,998	275,886	277,265	
~	First 100 Units	162,879	134,138	134,809	
	From 101 to 1000 Units	149,910	123,458	124,075	
	All Consumption above 1000 Units	22,209	123,438	18,382	
3 (2)	Tariff-LTP/Motive Power	1,011,331	165,019	165,019	
5 (a)	Connected Load upto 50 HP		I		
	Connected Load above 50 HP	53,064 958,267	8,658	8,658 156,360	
2 (h)		·	156,360	-	
3 (D)	Tariff-LTP/ Ice Manufacturing	1,882	3,072	3,072	
2(-)	Connected Load upto 100 HP	1,882	3,072	3,072	
3(a)	Tariff-LTP/Mixed (Hotel Industries)	3,315	4,569	4,569	
4	Tariff-LTAG/Agriculture	64,226	61,326	61,326	
5	Tariff-LTPL/Public Lighting	9,047	9,598	9,598	
6	Tariff-LT PWW/Public Water Works	21,548	5,600	5,600	
_		657.000			
<u>B</u>	High Tension Supply (in kVA)	657,938	573,529	573,529	
7	Tariff HT-Mixed	67,649	74,767	74,767	
8(a)	Tariff HTI/Industrial	234,192	240,374	240,374	
8(b)	Tariff HTI/Hotel Industries	122,763	41,559	41,559	
8(c)	Tariff HTI/Ice Manufacturing	364	364	364	
	H.T.Industrial (Ferro Mettallurgical/				
9	Steel Melting/ Power Intensive/	93,223	111,840	111,840	
	Steel Rolling)				
	First 300 Units/kVA	50,341	60,389	60,389	
	Next 200 Units/kVA	35,425	42,328	42,328	
	Above 500 Units/kVA	7,458	9,123	9,123	
10	Tariff-HTAG/Agriculture	8,202	8,258	8,258	
11	EHTI/Industrial	76,519	51,833	51,833	
	H.T. PW/Public Water Supply and	26,852	30,796	30,796	
12				_ 0,. 00	
12	Sewage				
12 13	H.T. MES/Defence Establishments	6,812	7,080	7,080	
	H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling)	6,812 16,204		7,080	
13	H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) First 200 Units/kVA	6,812 16,204 11,505		7,080 - -	
13	H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling)	6,812 16,204		7,080 - - -	
13	H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) First 200 Units/kVA	6,812 16,204 11,505	7,080 - - - -		
13	H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) <i>First 200 Units/kVA</i> <i>Next 100 Units/kVA</i>	6,812 16,204 11,505 3,727		-	
13 14 15	H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) <i>First 200 Units/kVA</i> <i>Next 100 Units/kVA</i> <i>Above 300 Units/kVA</i> Tariff HT-Industries (IT High Tech).	6,812 16,204 11,505 3,727 972 5,159	7,080 - - - - 6,658	- - - - 6,658	
13 14 15 C	H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) <i>First 200 Units/kVA</i> <i>Next 100 Units/kVA</i> <i>Above 300 Units/kVA</i> Tariff HT-Industries (IT High Tech). Temporary Supply (in kW/kVA)	6,812 16,204 11,505 3,727 972 5,159 16,464	7,080 - - - - 6,658 8,025	- - - 6,658 8,025	
13 14 15	H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) <i>First 200 Units/kVA</i> <i>Next 100 Units/kVA</i> <i>Above 300 Units/kVA</i> Tariff HT-Industries (IT High Tech).	6,812 16,204 11,505 3,727 972 5,159	7,080 - - - - 6,658	- - - - 6,658	

Table 4-3: Connected Load – FY 2014-15

Note: All LT Connections expect 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



4.5 Energy Sales

- 4.5.1 ED Goa has projected the sales by considering the actual consumption for the 1st half of FY 2014-15, i.e. April 2014 to Sep 2014. The sales forecast for the remaining period is based on the trends observed in sales pattern over the previous years during the corresponding 2nd half of the respective years.
- 4.5.2 ED Goa has shown considered higher sales during the 2nd half of FY 2014-15 as compared to the first half. This is on account of the peak season of tourism which commences from the month September onwards and continues till the month of January/ February. Hence, there is a substantial amount of consumption of power during this period.
- 4.5.3 It is submitted that there is a backlog in billing for LT consumers during first half of FY 2014-15 which is expected to cover up during second half of FY 2014-15 and therefore sales of H2 (in terms of billing only) is estimated on higher side than H1 of FY 2014-15.
- 4.5.4 It is submitted that Reliance IPP was providing electricity supply directly to approx 55 industrial consumers on its own network. The said PPA with Reliance IPP has expired on 13th August 2014 and all the industrial consumers are now being supplied power by ED-Goa. Therefore ED-Goa expects an increase in sales of H2 as compared to H1 of FY 2014-15.
- 4.5.5 The following table shows the overall sales projected by ED Goa for the year FY 2014-15.



Table 4-4: Sales for FY 2014-15

Sr. No.	Category of Consumer	FY14-15	H1 FY15	H2 FY15	FY 14-15
51. NO.	Category of Consumer	(Apprvd)	(Prov.	(Est) Mus	(Rev.Est)
1	2	3	4	5	6
Α	Low Tension Supply	1,258	578	652	1,230
1(a)	Tariff LTD/Domestic and Non-Commercial	904	339	383	722
	First 60 Units	189	73	82	155
	61 to 250 Units	543	204	231	435
	251 to 500 Units	136	49	55	105
	Above 500 Units	35	13	15	28
1(b)	Tariff LTD/Low Income Group	2	3	4	7
1(c)	Tariff LTD/Domestic Mixed	5	3	4	7
	First 400 Units	4	3	3	6
	Above 400 Units	1	1	1	1
2	Tariff-LTC/Commercial	224	124	140	264
	First 100 Units	110	60	68	128
	From 101 to 1000 Units	101	56	63	118
	All Consumption above 1000 Units	13	8	9	18
3 (a)	Tariff-LTP/Motive Power	84	70	79	149
	Connected Load upto 50 HP	5	4	4	8
	Connected Load above 50 HP	79	66	75	141
3 (b)	Tariff-LTP/ Ice Manufacturing	-	3	3	7
	Connected Load upto 100 HP	-	3	3	7
3(a)	Tariff-LTP/Mixed (Hotel Industries)	5	1	1	3
4	Tariff-LTAG/Agriculture	16	12	13	25
5	Tariff-LTPL/Public Lighting	15	18	21	39
6	Tariff-LT PWW/Public Water Works	2	3	3	6
В	High Tension Supply	1,761	879	921	1,800
7	Tariff HT-Mixed	290	65	66	130
8(a)	Tariff HTI/Industrial	616	284	320	604
8(b)	Tariff HTI/Hotel Industries	-	66	67	133
8(c)	Tariff HTI/Ice Manufacturing	-	1	1	1
	H.T.Industrial (Ferro Mettallurgical/ Steel				
9	Melting/ Power Intensive/ Steel Rolling)	506	281	284	566
	First 300 Units/kVA	273	152	154	306
	Next 200 Units/kVA	192	87	88	1/6
	Next 200 Units/kVA Above 500 Units/kVA	192 41	87 13	88 13	
10	Above 500 Units/kVA				27
	Above 500 Units/kVA Tariff-HTAG/Agriculture	41 5	13 2	13 2	27 5
11	Above 500 Units/kVA Tariff-HTAG/Agriculture EHTI/Industrial	41	13 2 87	13	27 5 175
11 12	Above 500 Units/kVA Tariff-HTAG/Agriculture EHTI/Industrial H.T. PW/Public Water Supply and Sewage	41 5 144 110	13 2 87 68	13 2 88 69	27 5 175 137
11 12 13	Above 500 Units/kVA Tariff-HTAG/Agriculture EHTI/Industrial H.T. PW/Public Water Supply and Sewage H.T. MES/Defence Establishments	41 5 144 110 34	13 2 87	13 2 88	27 5 175 137
11 12	Above 500 Units/kVA Tariff-HTAG/Agriculture EHTI/Industrial H.T. PW/Public Water Supply and Sewage H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling)	41 5 144 110 34 49	13 2 87 68	13 2 88 69	176 27 5 175 137 27 -
11 12 13	Above 500 Units/kVA Tariff-HTAG/Agriculture EHTI/Industrial H.T. PW/Public Water Supply and Sewage H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) First 200 Units/kVA	41 5 144 110 34 49 35	13 2 87 68 13 -	13 2 88 69 14 -	27 5 175 137 27 -
11 12 13	Above 500 Units/kVA Tariff-HTAG/Agriculture EHTI/Industrial H.T. PW/Public Water Supply and Sewage H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) <i>First 200 Units/kVA</i> Next 100 Units/kVA	41 5 144 110 34 49 35 11	13 2 87 68 13 -	13 2 88 69 14 -	27 5 175 137 27 -
11 12 13 14	Above 500 Units/kVA Tariff-HTAG/Agriculture EHTI/Industrial H.T. PW/Public Water Supply and Sewage H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) First 200 Units/kVA Next 100 Units/kVA Above 300 Units/kVA	41 5 144 110 34 49 35 11 3	13 2 87 68 13 - - -	13 2 88 69 14 - - -	27 5 175 137 27 - - - -
11 12 13	Above 500 Units/kVA Tariff-HTAG/Agriculture EHTI/Industrial H.T. PW/Public Water Supply and Sewage H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) <i>First 200 Units/kVA</i> Next 100 Units/kVA	41 5 144 110 34 49 35 11	13 2 87 68 13 -	13 2 88 69 14 -	27 5 175 137 27 - - - -
11 12 13 14 14	Above 500 Units/kVA Tariff-HTAG/Agriculture EHTI/Industrial H.T. PW/Public Water Supply and Sewage H.T. MES/Defence Establishments H.T. Industrial (Steel Rolling) First 200 Units/kVA Next 100 Units/kVA Above 300 Units/kVA Tariff HT-Industries (IT High Tech).	41 5 144 110 34 49 35 11 3 3 7	13 2 87 68 13 - - - 10	13 2 88 69 14 - - - 11	27 5 175 137 - - - - 21
11 12 13 14 15 C	Above 500 Units/kVATariff-HTAG/AgricultureEHTI/IndustrialH.T. PW/Public Water Supply and SewageH.T. MES/Defence EstablishmentsH.T. Industrial (Steel Rolling)First 200 Units/kVANext 100 Units/kVAAbove 300 Units/kVATariff HT-Industries (IT High Tech).Temporary Supply	41 5 144 110 34 49 35 111 3 7 7 5 15	13 2 87 68 13 - - - - 10 10 19	13 2 88 69 14 - - 11 11 19	27 5 175 137 - - - 21 21 39
11 12 13 14 15 C 16	Above 500 Units/kVATariff-HTAG/AgricultureEHTI/IndustrialH.T. PW/Public Water Supply and SewageH.T. MES/Defence EstablishmentsH.T. Industrial (Steel Rolling)First 200 Units/kVANext 100 Units/kVAAbove 300 Units/kVATariff HT-Industries (IT High Tech).Temporary SupplyTariff-LT/Temporary	41 5 144 110 34 49 35 11 3 7 7 5 11 3 11 3 14	13 2 87 68 13 - - - 10	13 2 88 69 14 - - - 11	27 5 175 137 - - - 21 21 39
11 12 13 14 15 C	Above 500 Units/kVATariff-HTAG/AgricultureEHTI/IndustrialH.T. PW/Public Water Supply and SewageH.T. MES/Defence EstablishmentsH.T. Industrial (Steel Rolling)First 200 Units/kVANext 100 Units/kVAAbove 300 Units/kVATariff HT-Industries (IT High Tech).Temporary Supply	41 5 144 110 34 49 35 111 3 7 7 5 15	13 2 87 68 13 - - - - 10 10 19	13 2 88 69 14 - - 11 11 19	27 5 175 137 27 -

Note: HTI/Industrial is expected to increase in H2 due to increase in consumers from Reliance IPP



- 4.5.6 ED-Goa submits that the sales estimated for FY 2014-15 as seen from the table above is very much in line with that approved by the Hon'ble Commission in last tariff order.
- 4.5.7 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 2014-15 are provided in **Format 1 of Tariff Filing Formats**.

4.6 T&D Loss & Energy Requirement

- 4.6.1 **T&D Loss H1:** The Distribution Loss for the 1st half of the year FY 2014-15 (i.e. Apr 14 Sep 14) based on the actual data available comes to **18.66%.**
- 4.6.2 **Energy Input H1:** The actual measured energy input at periphery for H1 from WR and SR is provided in the table below:

Month	WR (MU's)	SR (MU's)	TOTAL (MU's)
Apr-14	252.19	64.59	316.79
May-14	258.61	54.18	312.79
Jun-14	247.46	51.67	299.13
Jul-14	230.30	44.40	274.70
Aug-14	221.00	52.51	273.51
Sep-14	246.53	46.41	292.94

Table 4-5: Energy Input for WR & SR: FY 14-15 – H1

4.6.3 **Energy Balance H1:** The Energy Balance for the 1st half of the year FY 2014-15, based on the provisional figures is shown in the table below:



Sr. No.	Item	April-Sep (Prov. Actual) - WR	April-Sep (Prov. Actual) - SR	April-Sep (Prov. Actual) WR + SR
140.		FY 2014-15 H1	FY 2014-15 H1	FY 2014-15 H1
1	2	3	4	5
1	Energy Input at Goa Periphery	1,456	314	1,770
2	Total Power Scheduled/ Purchased by ED-Goa			
	Total Schedule Billed Drawal - CGS	1,317	353	1,671
	Add: Overdrawal	106	10	117
	Add: Power purchase from Traders/ Open Market	105		105
	Less: Underdrawal	9	8	17
	Less: Power diverted to Exchange	-	-	-
	Total	1,520	356	1,876
3	PGCIL Losses - MUs	64	42	106
	PGCIL Losses - %	4.23%	11.82%	5.67%
4	Total Power Purchased within Goa State			
	Add: Co-generation and Renewable	66	-	66
	Add: Independent Power Producers (IPP)	(21)	-	(21)
	Total	45	-	45
5	Total Power Purchase availability after PGCIL Losses	1,501	314	1,815
	Less: Retail Sales to Consumers			1,476
	T&D Losses - MUs			339
6	T&D Losses - %			18.66%

Table 4-6: Energy Balance for H1 MU's

- 4.6.4 **PGCIL SR Losses:** It can be seen from the table above, that PGCIL loss for the southern region is on much higher side in the 1st half of the year FY 2014-15. This is due to the following reasons:
 - i. The Power Scheduled from the SR originates from Ramagundam Periphery, which is located in Andhra Pradesh.
 - ii. 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 and Inter State Losses between regions.
 - iii. Thus, the PGCIL loss for the southern region tends to be more than the Western Region in H1.
- 4.6.5 Distribution Loss for overall FY 14-15: The Distribution Loss for the year FY 2014 15 on overall basis is estimated to be around 14.00%. ED Goa has been trying to minimize the Distribution Loss and shall continue with the efforts in reducing the Distribution Loss further.
- 4.6.6 The figures of AT&C loss and Distribution Loss for FY 2014-15 are provided in **Format 2 of Tariff Filing Formats**.



4.6.7 PGCIL Losses for H2 of FY 14-15: As discussed in above Para, the total PGCIL Losses are considered for both the regions, i.e. WR & SR. And as explained in the reasons above, the PGCIL losses for SR is more than WR. The PGCIL loss for the SR for FY 2014-15 are considered at 12.00% (Andhra Intra State Transmission Loss + Interstate Losses between regions). On the other hand PGCIL losses for the WR are considered as the average of actual weekly losses of second half of FY 2013- 14 at 3.80% (source: WRPC Website) and details are provided in the table below:

Sr.No.	Period from - to	Loss %
1	300913-061013	4.04
2	071013-131013	3.48
3	141013-201013	3.56
4	211013-271013	3.58
5	281013-031113	3.62
6	041113-101113	3.96
7	111113-171113	3.50
8	181113-241113	3.98
9	241113-011213	3.92
10	021213-081213	4.40
11	091213-151213	4.20
12	161213-221213	3.88
13	231213-291213	3.78
14	301213-050114	3.86
15	060114-120114	3.92
16	130114-190114	3.86
17	200114-260114	4.08
18	270114-020214	3.74
19	030214-090214	3.76
20	100214-160214	4.12
21	170214-230214	3.52
22	240214-020314	3.80
23	030314-090314	3.64
24	100314-160314	3.62
25	170314-230314	3.64
26	240314-300314	3.44
Ave	erage Losses	3.80
Avera	ge Losses in %	3.80%

Table 4-7: PGCIL Losses for WR for H2 FY 2013-14

- 4.6.8 ED-Goa submits that it has projected power purchase quantum for H2 of FY 2014-15 based on the following assumptions.
 - > Percentage Allocation arrived for each of CGS station from WRPC data
 - > PLF of CGS station considered for H2 is same as that of H1 of FY 2014-15
 - Auxiliary consumption for CGS stations is taken from revised CERC tariff Regulations 2014.
 - ▶ WR losses are considered as 3.8% and SR loss at 12%



- Based on the above assumption power purchase quantum from CGS stations have been arrived.
- Power Purchase quantum from within state existing co-generating stations is considered same as that of H1 of FY 2014-15. A new co-generation plant i.e. M/s Sesa Sterlite Limited is considered to be commissioned during H2. The power purchase quantum from this plant is considered at **27.50 MU's** which half of **55 MU's** is as approved by Hon'ble Commission for FY 2014-15 in last tariff order.
- Quantum of Power Purchase from traders is considered in line with the LOI issued by ED-Goa for second half of FY 2014-15.
- Recently, Department is also drawing/ injecting power into Power Exchanges. However the impact of the same is not considered as the framework of Review is based on actual of first six months and estimates for next six months. Further the transactions carried out on exchanges are already part of overall power purchase and sales projections for the period from October 2014 to March 2015.
- 4.6.9 ED-Goa has therefore estimated the power purchase quantum for H2 of FY 2014-15 and has integrated with actual quantum of H1 to arrive at energy balance for entire year of FY 2014-15.
- 4.6.10 ED-Goa while computing Energy balance for entire FY 2014-15 has considered actual of Deviation Settlement Mechanism during first half of FY 2014-15. Thus, on the basis of the foregoing paras, the Energy Balance for the year FY 2014-15 is computed by ED-Goa and shown in the table below.



Sr. No.	Item	Apr-Mar (Rev.Est) - WR	Apr-Mar (Rev.Est) - SR	Apr-Mar (Rev.Est) WR + SR
		FY 2014-15	FY 2014-15	FY 2014-15
1	2	3	4	5
1	Retail Sales to Consumers			3,068
	Add: T&D Losses - %			14.00%
	T&D Losses - MUs			499
2	Energy Requirement at Goa Periphery			3,567
3	Total Power Scheduled by ED-Goa			
	Scheduled Power from NTPC, RGPPL, NPCIL & RSTPS	2,633	691	3,324
	Add: Actuals of Over/Underdrawal, Traders and Sale to exchange - H1			100
	Add: Power from Open Market during peak/ (Surplus Power diversion to exchange during off-peak)			199
	Total	2,633	691	3,622
4	Less: PGCIL Losses - %	4.34%	11.95%	5.43%
	PGCIL Losses - MUs	114	83	197
5	Total Power Purchased within Goa State			
	Add: Co-generation & Renewable	163	-	163
	Add: Independent Power Producers (IPP)	(21)	-	(21)
	Total	142	-	142
6	Energy Input at Periphery after PGCIL Losses & State Power Purchase	2,660	608	3,567

4.6.11 The table below provides the comparison of Energy Balance with approved and revised estimates for FY 2014-15.



				In MUs
Sr. No.	Item	Submitted earlier in petition	Approevd in T.O.	Revised Estimates
1	2	3	4	5
1	Retail Sales to Consumers	3,177	3,078	3,068
	Add: T&D Losses - %	12.25%	11.50%	14.00%
	T&D Losses - MUs	444	400	499
2	Energy Requirement at Goa Periphery	3,621	3,478	3,567
3	Total Power Scheduled by ED-Goa			
	Scheduled Power from NTPC, RGPPL, NPCIL & RSTPS	3,375	3,565	3,324
	Add: Actuals of Over/Underdrawal, Traders and Sale to exchange - H1	297	-	100
	Add: Power from Open Market during peak/ (Surplus Power diversion to exchange during off-peak)	-	-	199
	Total	3,673	3,565	3,622
4	Less: PGCIL Losses - %	4.85%	4.68%	5.43%
	PGCIL Losses - MUs	178	171	197
5	Total Power Purchased within Goa State			
	Add: Co-generation & Renewable Sources	84	84	163
	Add: Independent Power Producers (IPP)	42	-	(21)
	Total	126	84	142
6	Energy Input at Periphery after PGCIL Losses & State Power Purchase	3,621	3,478	3,567

Table 4-9: Comparison of Energy Balance for FY 14-15

4.6.12 The Hon'ble Commission is requested to approve the Energy Balance for the year FY 2014-15 as provided in the above tables. 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 2014-15 (H1 and overall for FY 2014-15) are provided in **Format 3 of Tariff Filing Formats**.

4.7 Power Purchase Quantum & Cost for FY 14-15

Power Purchase Cost for H1 FY 2014-15

4.7.1 ED-Goa meets its total energy requirement from its allocation from the Central Generating Stations (CGS), State based Co-generation facilities, Power Exchanges etc. ED-Goa 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.



4.7.2 The table below shows the summary of Power Purchase from various sources along with their costs for the 1st half of FY 2014-15 including Transmission Charges, Deviation Settlement Mechanism (DSM Power) and purchase from traders:

Sr. No	Particulars	Purchase (Mus)	Cost (Rs.Crs)	Rate
		MUs	Rs. Cr	Rs./unit
1	NTPC	1,534.56	371.20	2.42
2	RGPPL	-	7.55	-
3	NPCIL	136.28	26.28	1.93
4	Traders	105.38	37.94	3.60
5	Overdrawal	100.03	51.21	5.12
6	Co - Generation	65.47	15.78	2.41
7	IPP	(21.40)	(2.76)	1.29
8	RE Purchase & RPO for Solar & Non-Solar	0.75	0.63	8.37
9	Transmission Charges	-	65.47	-
	Grand Total	1,921.06	573.30	2.98

Table 4-10: Power Purchase Quantum & Cost for H1 – FY 14-15

- 4.7.3 It is submitted that ED-Goa has supplied power to Reliance IPP from April 2014 to August 2014 (till the expiry date of PPA). However the billing rate for such power supplied by ED-Goa to Reliance IPP is under examination. The issues involved are not strictly dealt by PPA between EDG and Reliance IPP. The present rates considered in the petition are tentative. The impact of final agreed rates would be submitted to Hon'ble Commission on finalisation of matter.
- 4.7.4 The source wise details of Power Purchase Quantum and its cost are covered in **Format 4 of the Tariff Filing Formats**.
- 4.7.5 Further, the month wise breakup for each of the source/ element of Power Purchase for the period April-September 2014 are provided at **Annexure IV** of this Petition.
- 4.7.6 ED Goa on a real time basis has also overdrawn/ under drawn power from both WR and SR grids. The summary details of the same are provided in the table below for H1:



Region	Overd	rawal	Underdrawal		
	Rs. Cr MUs		Rs. Cr	MUs	
Western	46.01	106.35	1.03	8.70	
Southern	6.37	10.19	0.14	7.81	
Total	52.38	116.54	1.17	16.51	
Avg Rate (Rs/kWh)		4.49		0.71	

Table 4-11: DSM Power	Over Drawl & Under Drawl) charges for	r FY 15 – H1
Tuble 4 II. Dollin Owen	over brawn a onacr brawn, enarges to	1113 111

- 4.7.7 However the underdrawal and the revenue from it are shown separately in ARR format (not netted off from power purchase cost).
- 4.7.8 **Transmission Charges H1:** The transmission charges for the 1st half of FY 2014-15 comprises of transmission charges for Western Region, Southern Region, KPTCL and MSETCL. The Transmission charge comes to around **Rs. 65.47 Crores,** the details of which are shown in the table below:

S.no	Name of the Supplier/ Agency	Amount	Remarks
1	M/s PGCIL WR, Nagpur	495,547,896	POC Charges
2	M/s PGCIL SR, Banglore	110,493,881	POC Charges
3	M/s KPTCL, Banglore	26,682,910	wheeling charges
4	M/s POSOCO WR	2,575,771	Fees and charges of SLDC
5	M/s POSOCO SR	2,302,940	Fees and charges of SLDC
6	M/s POSOCO WR	3,655,781	SCADA charges
7	M/s MSEDCL	-	reactive charges
8	M/s POSOCO WR	151,045	Reactive charges
9	M/s MSETCL (RGPPL)	13,300,002	wheeling charges
	Total	654,710,226	

Table 4-12: Transmission Charges for FY 2014-15 H1

4.7.9 The month wise details of transmission charges for various heads are provided at **Annexure V** of this Petition.

Power Purchase Cost for H2 FY 2014-15

4.7.10 **Power Purchase Fixed Cost for H2 FY 2014-15:** The Fixed charges for CGS has been taken in line with the cost actually incurred by ED-Goa during the first half of FY 2014-15. The fixed cost has been considered only for CGS stations.

- 4.7.11 Power Purchase Variable Cost for H2 FY 2014-15: The variable cost for CGS stations for FY 2014-15 has been computed considering per unit cost from the invoices submitted for the month of Oct and Nov 2014. The variable cost per unit for Co-Generation Stations (existing as well as upcoming) has been taken at Rs. 2.40 /unit in line with the PPA signed with the Generators.
- 4.7.12 **Power Purchase cost of Traders for FY 2014-15:** The cost for power purchase from traders for H2 is considered as per LOI issued by ED-Goa. The cost for power purchase from traders for H2 is considered as per LOIs issued by ED-Goa and as explained in below table

Source - Adani	No of Days	Time Slots	Hours	Quantum (MW)	MU's	Price (Rs./unit)	Cost (Rs. Crores)
1/12/2014 to 31/12/2014		10:00 to 18:00	8.00	50.00	12.40	3.58	4.44
1/12/2014 to 31/12/2014	31.00	18:00 to 22:00	4.00	50.00	6.20	3.58	2.22
1/12/2014 to 31/12/2014	31.00	22:00 to 24:00	2.00	50.00	3.10	3.58	1.11
Total			14.00		21.70		7.77

Table 4-13: Power Purchase from Short Term Traders for H2 of FY 2014-15

Source - Adani	No of	Time Slots	Hours	Quantum	MU's	Price	Cost (Rs.
	Days			(MW)		(Rs./unit)	Crores)
1/1/2015 to 31/1/2015	31.00	10:00 to 18:00	8.00	50.00	12.40	3.58	4.44
1/1/2015 to 31/1/2015	31.00	18:00 to 22:00	4.00	50.00	6.20	3.58	2.22
1/1/2015 to 31/1/2015	31.00	22:00 to 24:00	2.00	50.00	3.10	3.58	1.11
Total			14.00		21.70		7.77

Source - Adani	No of Days	Time Slots	Hours	Quantum (MW)	MU's	Price (Rs./unit)	Cost (Rs. Crores)
1/2/2015 to 28/2/2015	28.00	10:00 to 18:00	8.00	50.00	11.20	3.58	4.01
1/2/2015 to 28/2/2015	28.00	18:00 to 22:00	4.00	50.00	5.60	3.58	2.00
1/2/2015 to 28/2/2015	28.00	22:00 to 24:00	2.00	50.00	2.80	3.58	1.00
Total			14.00		19.60		7.02

Source - Adani	No of	Time Slots	Hours	Quantum	MU's	Price	Cost (Rs.
	Days			(MW)		(Rs./unit)	Crores)
1/3/2015 to 31/3/2015	31.00	10:00 to 18:00	8.00	70.00	17.36	3.16	5.49
1/3/2015 to 31/3/2015	31.00	18:00 to 22:00	4.00	70.00	8.68	3.16	2.74
1/3/2015 to 31/3/2015	31.00	22:00 to 24:00	2.00	70.00	4.34	3.16	1.37
Total			14.00		30.38		9.60

Power Purchase from Renewable Energy Sources:

4.7.13 **Solar RPO:** As regards fulfilment of Solar RPO is concerned, PPA has been executed by the Government with M/s NVVNL, New Delhi 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.



Further M/s Solar Energy Corporation of India, New Delhi vide letter no. SECI/JNNSM/P-2/B-1/Power Sale/851 dated 11th July 2014, has allocated 10 MW of Solar power to the State and also submitted Power Sale Agreement (PSA). The PSA to be executed with SECI has been submitted to the Government for approval for execution. The SECI will be supplying solar power of 10 MW @ Rs 5.50 per unit, including its commission of Rs. 0.05 per unit exclusive of transmission charges for a period of 25 years. It is anticipated that PSA will be executed shortly after negotiations on legal clauses and shall fulfil the solar RPO from 2015-16 till next 25 years.

Non-Solar RPO: Tender was invited by the Electricity Department – Goa for fulfilment of non-solar RPO of FY 2014-15 and further 4 years period. There were three offers against the tender. The lowest offer was @ Rs 6.10 per unit at Goa Periphery but the commencement of supply was from 1/4/2015. Another offer was @ Rs. 7.25 at Goa periphery for commencement of power from current year itself.

As the rates offered were on higher side and considering miniscule business of ED-Goa, it is decided to purchase RECs to meet Non Solar RPO for FY 2014-15 and subsequent financial years. ED-Goa has planned to purchase RECs equivalent to ~ 85 MUs in FY 2014-15.

Sr.No.	Description	FY 2013-14	FY 2014-15
1	Sale within State	2,977.29	3,067.92
2		2,977.29	5,007.92
Z	RPO Obligation in (%)	0.40%	0.60%
	Solar	0.40%	0.60%
2	Non Solar	2.60%	2.70%
3	RPO Obligation in (in MUs)	11.01	10.11
	Solar	11.91	18.41
	Non Solar	77.41	82.83
4	Shortfall of RPO Obligation in		
	Past Years (in MUs)		
	Solar	19.78	-
	Non Solar	-	-
5	Total RPO Obligation including		
	Past Years (in MUs)		
	Solar	31.69	18.41
	Non Solar	77.41	82.83
6	RPO Compliance during the		
	year (in Mus)		
	Solar	-	4.75
	Non Solar	-	-
7	Shortfall in RPO Compliance		
	(in Mus)		
	Solar	31.69	13.66
	Non Solar	77.41	82.83
8	REC Certificate Purchase (in		
	Mus)		
	Solar	-	
	Non Solar	-	85.00
9	Cumulative Shortfall in RPO		
-	Compliance (in Mus)		
	Solar	31.69	45.35
	Non Solar	77.41	75.24
10	REC Certificate Price (Rs./Unit)	_	
	Solar	_	9.30
	Non Solar	_	1.50
11	REC Certificate Cost (Rs.		1.50
	Crores)		
	Solar	-	_
	Non Solar	-	12.75
	Total	-	12.75 12.75

Table 4-14: Solar & Non-Solar RPO Status FY14-15

4.7.14 The Hon'ble Commission is requested to approve the purchase of REC as stated in the table above, that are proposed in order to meet the RPO Obligation. The Petitioner submits that it has ensured the compliance of RPO in MYT period.



- 4.7.15 Transmission Charges FY 15 H2: The Transmission Charges for FY 2014-15 are considered as per POC computation, i.e. Part A Transmission charge for withdrawal of power and Part B Transmission charges of generators. Further, the transmission charge has also been considered factoring the wheeling charges pertaining to KPTCL. The transmission charges from KPTCL have been worked out by considering wheeling charge of 7.50 paise/unit on power drawl from Ramagundam Plant.
- 4.7.16 The transmission charges for 2nd half of FY 14-15 are computed based on the rates provided in Regional Transmission Account Statement for November 2014. The computation of transmission charges for Part-A and part-B is provided in the table below.

Regions	Rates Rs/Mw/ Month *	Monthly Quantum (MW)	Monthly Charges (Rs.Crs)	Total Charges for 6 months (Rs.Crs)
Southern Region*	88,067.00	93.28	0.82	4.93
Western Region*	118,067.00	388.01	4.58	27.49
Unallocated (3	118,067.00	100.00	1.18	3.54
Months 20 MW)				
Total		581.29		35.96

 Table 4-15: Transmission Charges Part-A for FY 2014-15 H2

* Figures of MW as per Nov 2014 RTA bill (SR + WR)

Stations	Rates Rs/Mw/ Month **	Monthly Quantum (MW) *	Monthly Charges (Rs.Crs)	Total Charges for 6 months (Rs.Crs)
RSTPS - SR	88,067.00	100.00	0.88	5.28
CGS - WR				
KSTPS	103,067.00	211.93	2.18	13.11
KORBA - III	103,067.00	5.41	0.06	0.33
VSTPS - I	103,067.00	36.73	0.38	2.27
VSTPS - II	103,067.00	13.30	0.14	0.82
VSTPS -III	103,067.00	11.30	0.12	0.70
VSTPS -IV	103,067.00	13.02	0.13	0.81
KGPP	118,067.00	12.38	0.15	0.88
GGPP	118,067.00	12.64	0.15	0.90
SIPAT-2	103,067.00	11.24	0.12	0.69
KAPS 1 & 2	118,067.00	15.47	0.18	1.10
TAPS 3 & 4	118,067.00	12.60	0.15	0.89
SIPAT-1	103,067.00	23.61	0.24	1.46
Unallocated (3	103,067.00	20.00	0.21	0.62
Months 20 MW)				
Mauda	88,067.00	13.02	0.11	0.69
Total - (Rs.)		512.64	5.19	30.54

* Figures of MW other than Peak Hours allocation

** POC charges as per Nov 2014 RTA bill (SR + WR)



4.7.17 Accordingly, the Transmission Charges for 2nd half of FY 2014-15 is summarized in the table below:

Particulars	FY14-15 - H2
	(Rs.Crs)
Part - A Transmission Charges (Oct14-Mar 2015)	35.96
Part - B Transmission Charges (Oct14-Mar 2015)	30.54
KPTCL Wheeling Charges (FY2014-15 H2)	2.53
Fees and charges of SLDC - WR	0.26
Fees and charges of SLDC - SR	0.23
SCADA & Reactive charges	0.38
MSETCL (RGPPL)	1.33
Total Transmission Charges (Oct14-Mar 2015)	71.23

Table 4-17: Summary of Transmission	n Charges for H2 FY 2014-15
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The other charges are proposed same as FY2014-15 H1 actuals

- 4.7.18 Thus, the total Transmission charge works out to be Rs. **71.23** Crores.
- 4.7.19 **Power Purchase Cost summary FY 14-15:** In line with the foregoing paragraphs, the total Power Purchase for FY 2014-15 is summarized in the table below:

		FY 2014-15		FY 20	14-15	FY 2014-15	5 (Rev.Est)
Sr. No	Particulars	Purchase (Mus)	Total Cost (Rs.Crs)	Purchase (Mus)	Total Cost (Rs.Crs)	Purchase (Mus)	Total Cost (Rs.Crs)
1	NTPC	3,159	717.54	3,216	676.43	3,088	753.45
2	RGPPL	28	8.36	154	55.39	-	7.55
3	NPCIL	189	51.21	194	50.58	235	52.17
4	Traders	297	89.20		-	199	70.09
5	Overdrawal				-	100	51.21
6	Co - Generation	84	19.86	84	19.86	158	38.10
7	IPP	42	50.13		7.44	(21)	(2.76)
8	Renewable Energy Source				29.64	5	16.73
9	Transmission Charges		129.22		94.61	-	136.70
	Grand Total	3,799	1,065.53	3,649	933.95	3,764	1,123.23
	Total P.U. (Rs/kWh)		2.81		2.56		2.98

Table 4-18: Power Purchase Summary for FY 2014-15

- 4.7.20 The power purchase details for H1 and H2 and for FY 2014-15 (H1+H2) are provided in Tariff Filing Format 4.
- 4.7.21 The deviation in power purchase cost for FY 2014-15 as compared to approved is due to the following reasons.



- Higher transmission charges as compared to approved since the Hon'ble Commission had not allowed any escalation on transmission charges while estimating cost for FY 2014-15.
- Purchase of power from short term sources and grid overdraw as envisaged/ approved power quantum from NTPC and RGPPL was unavailable
- Renewable energy cost has been on the lower side due to non fulfilment of RPO Obligation for FY 2014-15.
- 4.7.22 It is requested Hon'ble Commission to approve the power purchase cost including transmission charges at Rs. 1,123.23 Crores for FY 2014-15 as per revised workings and at an average cost of Rs. **2.98** /kWh. Further the Regional Energy Accounts (REA) and Regional Transmission Accounts (RTA) for the period from April 2014 to September 2014 are provided in soft format along with the petition for verification and scrutiny of the Commission.

4.8 Operation & Maintenance Expenses

- 4.8.1 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.
- 4.8.2 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;
 - b) 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....."
- 4.8.3 Employee Expenses for FY 2014-15: ED Goa has computed the O&M (Employee Expense) expense for FY 2014-15 based on the actual employee expenses till September 2014. Further ED-Goa considered employee expenses for second half of FY 2014-15 based on the increase in number of employees during the second half. The total employee cost is re-estimated at Rs. 231.00 Crores for FY 2014-15. The above amount includes pension provision of Rs. 5.28 Crores which is computed for permanent employees at the rate of average yearly contribution of Rs. 11 Lakhs.
- 4.8.4 The employee cost for FY 2014-15 has been on higher side as compared to approved due to increase in number of employees resulting into increase in salaries and dearness allowance, increase in HRA and travel allowance.
- 4.8.5 The head wise actual information for employee expenses has been provided in **Format 16 of Tariff Filing Format.**
- 4.8.6 **Repairs & Maintenance Expenses for FY 2014-15:** ED Goa 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.
- 4.8.7 ED-Goa has actually incurred amount of Rs. **16.34** Crores in the first six months period from April-September 2014. Further ED-Goa has considered the revised budget estimates submitted to Government of Goa for the purpose of revised projections of FY 2014-15 in this petition. The R&M expenses based on provisional and revised estimates for the year FY 2014-15 computes to Rs. **44.33** Crores.



- 4.8.8 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 meters and metering equipment cost.
- 4.8.9 Administration & General expenses for FY 2014-15: As mentioned earlier, Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.
- 4.8.10 The Commission in the tariff order for FY 2014-15 had approved A&G expenses based on inflation over FY 2013-14. The actual expense for first six months period from April-September 2014 is Rs. **3.27** Crores.
- 4.8.11 Further ED-Goa has considered the revised budget estimates submitted to Government of Goa for the purpose of revised projections of FY 2014-15 in this petition. The A&G expenses based on provisional and revised estimates for the year FY 2014-15 computes to Rs. **9.46** Crores. The Hon'ble Commission is requested to approve A&G expenses as per revised projections for FY 2013-14.
- 4.8.12 The A&G expenses are estimated on higher side as compared to H1 of FY 2014-15 due to higher cost estimated for regulatory expenses and legal and professional fees.
- 4.8.13 **O&M Expenses Summary FY 2014-15:** Based on the foregoing paragraphs, the revised O&M expenses for the year FY 2014-15 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

Particulars	FY 2014-15	FY 2014-15	FY 2014-15
Faiticulais	Rs.Crs	Rs.Crs	Rs.Crs
	Projection	Approved	(Rev. Est)
Employee Expense	177.14	152.42	231.00
R&M Expense	24.71	20.73	44.33
A&G Expense	9.97	9.60	9.46
Total	211.82	182.75	284.80

Table 4-19: O&M Expenses for FY 2014-15

4.8.14 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 2014-15 are provided in the Formats 14, 16 & 17 of the Tariff Filing Formats.



4.9 Capital Work in Progress, GFA and Depreciation

- 4.9.1 The Capital Work In Progress (CWIP), Gross Fixed Asset (GFA) and Depreciation for FY 2014-15 are discussed hereunder.
- 4.9.2 ED-Goa would like to submit that the Gross Block considered in FY 2014-15 is based on the Fixed Asset Register (FAR) prepared by the Petitioner up to FY 2012-13. ED-Goa submits that the audited accounts initially were available up to FY 2006-07. Based on the same, FAR was prepared for the period of FY 2007-08 to FY 2012-13 by considering asset addition per year in each of the 17 divisions in the State. ED-Goa submits that the assets created under account head no. 8229 (Electricity Duty fund) are NIL up to FY 2012-13. Once the asset register up to FY 2012-13 was prepared, Gross block for subsequent years was derived based on asset addition during the year. Due to this there is a sudden jump in the opening GFA of ED-Goa for FY 2014-15 as compared to last submitted and approved by Hon'ble Commission in last tariff order.
- 4.9.3 ED-Goa in due course of time would submit the FAR from FY 2008-09 to FY 2012-13 for perusal of the Hon'ble Commission. Therefore it is submitted that there is a huge deviation in the gross block considered by the Petitioner and that approved by the Hon'ble Commission in last tariff order.
- 4.9.4 ED Goa hereby submits a gist on the Capital Expenditure & Capitalisation for the year FY 2014-15.

		Rs. Crores	
	FY 2014-15		
Name of Schemes	Capital Expenditure	Capitalization	
Development Schemes	55.09	35.07	
Schedule Tribe Development Scheme (P)	40.00	20.00	
Infrastructure development through Electricity Duty (Plan)	70.00	62.81	
Erection Augmentation and Strengthening	21.25	37.25	
Normal Development Schemes (Plan)	15.02	15.00	
System Improvement Schemes (Plan)	4.00	4.00	
Construction of staff quarters and office buildings (Plan)	1.50	1.50	
Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim	3.00	3.00	
Erection of 220 KV line from Xeldem to Cuncolim	4.00	4.00	
Strengthening of 220 KV Transmission Network	10.00	10.00	
Erection of 2nd 100 MVA transfomer at Xeldem 220/110 KV S/S	0.25	0.25	
APDRP(State Schemes)	16.00	16.00	
Restructured Accelerated Power Development and Reforms Programme Part A	42.50		
Research training and human research development	0.10		
Underground Cabling	25.00	25.00	
(R-APDRP) during Eleventh Plan period	-		
Public Lighting Scheme	1.00	1.00	
Total	236.44	182.63	

Table 4-20: Capital Expenditure & Capitalisation for FY 2014-15

- 4.9.5 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 2014-15 as per revised estimates is Rs. **236.44** Crores and Rs. 182.63 Crores respectively. The detail of capital expenditure schemes for FY 2014-15 is provided in the **Format 5** of Tariff Filing Formats.
- 4.9.6 The details of opening Capital Works-in-Progress, investments during the year and investments capitalised for the year are summarised in the table below:



Sr. No	Particulars	FY 2014-15 (Rs.Crs)	FY 2014-15 (Rs.Crs)	FY 2014-15 (Rs.Crs)
		Projection	Approved	Rev. Est
1	Opening balance	504.55	504.55	488.13
2	Add: New investments	288.30	288.30	236.44
3	Total	792.85	792.85	724.57
4	Less investment capitalized	127.50	127.50	182.63
5	Closing balance	665.35	665.35	541.94

Table 4-21: CWIP for FY 2014-15

4.9.7 The Opening Balance of GFA for FY 2014-15 comes to around Rs. 961.50 Crores. The additions to GFA are estimated to be around Rs. 182.63 Crores; the details of which are provided in the table below:

Sr.	Particulars	FY 2014-15	FY 2014-15	FY 2014-15
No	Particulars	(Rs.Crs)	(Rs.Crs)	(Rs.Crs)
		Projection	Approved	Rev. Est
1	Opening Value of Assets at the beginning of the year	398.74	398.74	961.50
2	Additions during the year	127.50	127.50	182.63
3	Gross Fixed Assets at the end of year	526.24	526.24	1,144.13

Table 4-22: Details of GFA for FY 2014-15

Note: Opening Balance of Gross Block has been revised based on the Fixed Asset Register prepared till FY 2012-13

4.9.8 The Regulation 26 of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 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, ED – Goa has calculated the depreciation at Rs. **51.91** Crores. The table below shows the working of Depreciation.

Table 4-23: Depreciation	for FY 2014-15
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Sr.	Particulars	FY 2014-15	FY 2014-15	FY 2014-15
No		(Rs.Crs)	(Rs.Crs)	(Rs.Crs)
		Projection	Approved	Rev. Est
1	Opening Value of Assets at the beginning of the year	398.74	398.74	961.50
2	Additions during the year	127.50	127.50	182.63
3	Gross Fixed Assets at the end of year	526.24	526.24	1,144.13
4	Rate of Depreciation	5.28%	5.28%	5.28%
5	Depreciation	24.42	24.42	55.59



4.9.9 The detail of GFA & Depreciation for FY 2014-15 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 2014-15.

4.10 Interest & Finance Charge

4.10.1 The Regulation 29 provides for Interest and Finance Charges on Loan. ED-Goa has submitted that the majority of capital assets are created out of the equity contribution from Government of Goa and the actual borrowing of Ioan is only to the extent of the APDRP schemes. ED-Goa has computed Ioan balance and interest on Ioan as per normative principles and methodology adopted by Commission in past orders. 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

- 4.10.2 The opening normative loan balances are also re-instated as per actual balance of GFA arrived in FAR up to FY 2012-13. ED-Goa submits that 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 60% grant. However since the schemes are not coming under FY 2014-15, it has not been considered during FY 2014-15. The GFA considered is also after deducting assets created from ED funds. Normative loan repayments are considered same as depreciation amount for FY 2014-15.
- 4.10.3 The rate of Interest has been considered @ 11.75% for FY 2014-15 based on actual loan portfolio of ED-Goa. The details of actual loan are provided at Tariff Filing Format 10.
- 4.10.4 ED Goa has also considered the Letter of Credit charges for payment security charges. The total Interest and Finance Charges for the year FY 2014-15 are Rs.
 77.39 Crores. The table below shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission.



Sr. No	Particulars	FY 2014-15 (Rs.Crs)	FY 2014-15 (Rs.Crs)	FY 2014-15 (Rs.Crs)
		Projection	Approved	Rev. Est
1	Opening Normative Loan	77.29	256.67	600.35
2	Normative Additions during the year	-	89.25	83.87
3	Less: Loan Repayment	11.62	25.67	55.59
4	Closing Normative Loan	65.67	320.25	628.64
5	Average Normative Loan	71.48	288.46	614.49
6	Interest Rates - actual	10.72%	7.99%	11.75%
7	Interest on Loan	7.66	23.05	72.42
8	Finance Charges	1.30	1.30	4.97
9	Interest on Loan & Finance	8.96	24.35	77.39

4.10.5 The Hon'ble Commission is requested to approve the Interest & Finance Charges as shown in the table for FY 2014-15. The details of Interest & Finance charges are provided in **Format 6 of the Tariff Filing Formats.**

4.11 Interest on Working Capital

- 4.11.1 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.
- 4.11.2 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 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."

- 4.11.3 The Interest Rate is considered equivalent to the SBI PLR for the year FY 2014-15 which is at 14.75%. The SBI PLR rate has been attached as **Annexure VI** to this Petition.
- 4.11.4 In line with the aforesaid regulation, the Interest on Working Capital works out to Rs. 5.38 Crores for FY 2014-15 which is provided in the table below:

Sr. No	Particulars	FY 2014-15 (Rs.Crs)	FY 2014-15 (Rs.Crs)	FY 2014-15 (Rs.Crs)	
NU		Projection	Approved	Rev. Est	
1	Power Purchase Cost - 1 Month	88.79	77.83	93.60	
2	Employee Cost - 1 Month	14.76	12.70	19.25	
3	Administration & General Expenses-	0.89	0.80	0.83	
5	1 Month	0.89	0.05	0.00	0.05
4	R&M Cost - 1 Month	2.06	1.73	3.69	
5	Less: Security Deposits (in cash)	77.25	73.73	80.88	
6	Total	29.26	19.33	36.50	
7	Interest Rate as on 1st April	14.45%	14.75%	14.75%	
8	Interest on Working Capital	4.23	2.85	5.38	

Table 4-25: Interest on Working Capital for FY 2014-15

4.11.5 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 2014-15 are provided in Format 19 of the Tariff Filing Formats.

4.12 Interest on Security Deposit

4.12.1 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 9.00% as notified by Reserve Bank of India vide circular dated 28th January 2014. The notification of RBI is provided at Annexure VII of this Petition.



4.12.2 In lieu of the above, Interest on Security Deposit is calculated at Rs. 8.16 Crores on cash security deposit amounts excluding Bank Guarantee & Fixed Deposit Receipts. The table below shows details of Interest on Security Deposit for FY 2014-15:

Sr.	Particulars	FY 2014-15	FY 2014-15	FY 2014-15
No	Faiticulais	(Rs.Crs)	(Rs.Crs)	(Rs.Crs)
		Projection	Approved	Rev. Est
1	Opening Security Deposit	77.25	73.73	80.88
2	Add: Deposits during the Year	15.96	15.96	10.90
3	Less: Deposits refunded	2.86	2.86	1.07
4	Closing Security Deposit	90.36	86.83	90.71
5	Bank Rate	8.75%	8.50%	9.00%
6	Interest on Security Deposit	6.76	5.89	8.16

4.12.3 The Hon'ble Commission is requested to approve the Interest on Security Deposit as showcased in the table above. The details of Interest on Security Deposit for FY 2014-15 are provided in Format 19-A of the Tariff Filing Formats.

4.13 Return on Capital Base/ Net Fixed Assets

- 4.13.1 The proviso of Regulation 23 (2) and Regulation 24 of Tariff Regulations 2009 provides for entitlement for Returns on Capital Base/ Net Fixed Assets by utility / licensee. Thus, in line with the regulation and the methodology adopted by the Hon'ble Commission in its previous order, ED Goa has calculated the return on capital base at 3%.
- 4.13.2 The opening balance of assets and accumulated depreciation are re-instated as per actual arrived in FAR up to FY 2012-13.
- 4.13.3 The table below shows Return on Capital Base for FY 2014-15:

Sr. No	Particulars	FY 2014-15 (Rs.Crs)	FY 2014-15 (Rs.Crs)	FY 2014-15 (Rs.Crs)
		Projection	Approved	Rev. Est
1	Gross block at beginning of the year	398.74	398.74	961.50
2	Less accumulated depreciation	28.12	28.12	263.36
3	Net block at beginning of the year	370.62	370.62	698.14
4	Less accumulated consumer contribution	-	-	-
5	Net fixed assets at beginning of the year	370.62	370.62	698.14
6	Reasonable return @3% of NFA	11.12	11.12	20.94

Table 4-27: Return on Capital Base for FY 2014-15



4.13.4 The Hon'ble Commission is requested to approve the Return on Capital Base at Rs. 20.94 Crores as shown in the table above. The details of Return on Capital Base for FY 2013-14 are provided in Format 6 of the Tariff Filing Formats.

4.14 Non Tariff Income

- 4.14.1 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 2014-15 comes to Rs. 6.74 Crores.
- 4.14.2 The details of Non Tariff Income for FY 2014-15 are provided in Format 21 of the Tariff Filing Formats.

4.15 Revenue from Retail Sale of Power

- 4.15.1 The provisional revenue from sale of power including FPPCA charges for H1 of FY 2014-15 is Rs. 539.84 Crores. The category wise details of revenue are provided in Format 29 Rev FY15 H1 of the Tariff Filing Formats.
- 4.15.2 The estimated revenue from sale of power for H2 of FY 2013-14 is Rs. **550.87** Crores. The category wise details of revenue are provided in **Format 30 REV FY14** of the Tariff Filing Formats.
- 4.15.3 The overall revenue from sale of power for FY 2014-15 computes to Rs. **1,090.71** Crores and Hon'ble commission is requested to approve the same.

Sr. No.	Category of Consumer	Energy Sales (MUs)	Total Revenue (Rs Crore)	Avg Tariff (Rs/kWh)
1	2	3	4	5
Α	Low Tension Supply	1,230	325.22	2.64
1(a)	Tariff LTD/Domestic and Non- Commercial	722	140.13	1.94
1(b)	Tariff LTD/Low Income Group	7	0.76	1.05
1(c)	Tariff LTD/Domestic Mixed	7	2.41	3.37
2	Tariff-LTC/Commercial	264	101.05	3.82
3 (a)	Tariff-LTP/Motive Power	149	58.82	3.95
3 (b)	Tariff-LTP/ Ice Manufacturing	7	2.42	3.72
3(a)	Tariff-LTP/Mixed (Hotel Industries)	3	1.23	4.53
4	Tariff-LTAG/Agriculture	25	4.27	1.70
5	Tariff-LTPL/Public Lighting	39	12.08	3.07
6	Tariff-LT PWW/Public Water Works	6	2.05	3.35
В	High Tension Supply	1,800	744.07	4.13
7	Tariff HT-Mixed	130	59.79	4.59
8(a)	Tariff HTI/Industrial	604	260.84	4.32
8(b)	Tariff HTI/Hotel Industries	133	54.77	4.11
8(c)	Tariff HTI/Ice Manufacturing	1	0.39	3.79
9	H.T.Industrial (Ferro Mettallurgical/ Steel Melting/ Power Intensive)	566	203.80	3.60
10	Tariff-HTAG/Agriculture	5	0.98	2.06
11	EHTI/Industrial	175	76.86	4.38
12	H.T. PW/Public Water Supply and Sewage	137	54.50	3.97
13	H.T. MES/Defence Establishments	27	10.40	3.84
14	H.T. Industrial (Steel Rolling)	-	13.28	-
15	Tariff HT-Industries (IT High Tech).	21	8.46	4.03
С	Tomporony Supply	39	21.42	.
-	Temporary Supply	39	21.42	5.54
16 17	Tariff-LT/Temporary	- 38	21.24	5.53
	Tariff-HT/Temporary		-	-
18	Hoarding / Sign Board	0	0.18	7.24
	Total	3,068	1,090.71	3.56

Table 4-28: Revenue from Sale of Power for FY 2014-15

4.16 Aggregate Revenue Requirement for FY 2014-15

4.16.1 Based on the submissions made in the foregoing paragraphs, the net Aggregate Revenue Requirement for the year FY 2014-15 and the revenue gap is shown in the table below:

Sr. No.	Item of expense	ARR Projection (Rs.Crs)	Approved (Rs.Crs)	Revised Estimates (Rs.Crs)
1	Cost of power purchase	1,065.53	933.95	1,123.23
2	Employee costs	177.14	152.42	231.00
3	R&M expenses	24.71	20.73	44.33
4	Administration and General expenses	9.97	9.60	9.46
5	Depreciation	24.42	24.42	51.91
6	Interest on Loan & Finance charges	8.96	24.35	77.39
7	Interest on Working Capital	4.32	2.85	5.38
8	Interest on Security Deposit	6.76	5.89	8.16
9	Return on NFA /Equity	11.12	11.12	20.94
11	CGRF Expenses	0.75	0.75	0.51
12	Total Revenue Requirement	1,333.68	1,186.08	1,572.33
13	Less: Non Tariff Income	23.22	23.22	6.74
14	Net Revenue Requirement (12-13)	1,310.46	1,162.86	1,565.59

Table 4-29: Aggregate Revenue Requirement for FY 2014-15	
Table 4 25: Aggregate nevenue negatement for 11 2014 15	

4.16.2 The Hon'ble Commission is requested to approve the net ARR of FY 2014-15 computed at Rs. **1,565.59** Crores as per revised projections.

Table 4-30: Revenue Gap for FY 2014-15

				<u>Rs Crore</u>
Sr. No.	Item of expense	Projections FY 2014-15	Approved FY 2014-15	Rev. Estimates FY 2014-15
1	Net ARR for FY 2014-15	1,310.46	1,162.86	1,565.59
2	Less: Revenue at Existing Tariff +	1,031.31	1,025.66	1,090.71
	FPPCA Charges			
3	Gap at Existing Tariff	279.15	137.20	474.88
4	Less: Revenue from Revised Tariffs	85.55	78.16	-
5	Less: Budgetary Support	193.60	59.04	59.04
6	Balance Revenue Gap	-	-	415.84

4.16.3 ED-Goa submits that the budgetary support already committed at Rs. **59.04** Crs is retained and balance revenue gap of Rs. **415.84** Crores is carried forward to next year for appropriate treatment.



CHAPTER 5. MUTLI YEAR TARIFF FOR FY 2015-16 TO FY 2017-18

5.1 Preamble

- 5.1.1 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.
- 5.1.2 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:

"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

5.1.3 The MYT Regulations, 2014 has defined control period in the following manner.

"3.1.6. "**Control Period**" means multi-year period comprising of three financial years of FY 2015-16 to FY 2017-18, and as may be extended by the Commission, for submission of forecast in accordance with these Regulations;

- 5.1.4 As seen from the above definition, the MYT tariff for the first control period is to be determined for the period starting from FY 2015-16 (ensuing year for which tariff proposal is being submitted) up to FY 2017-18.
- 5.1.5 ED-Goa therefore submits Aggregate Revenue Requirement for the second control period from FY 2015-16 to FY 2017-18 based on the parameters defined in the MYT Regulations, 2014 which are proposed to be approved by the Hon'ble Commission.

5.2 Principles of ARR

- 5.2.1 This chapter summarizes the Aggregate Revenue Requirement (ARR) for the first control period FY 2015-16 to FY 2017-18. The projections for the control period have been made based on the parameters specified in the MYT Regulations, norms proposed in business plan and also based on actual data for previous years.
- 5.2.2 The overall performance parameters proposed for the control period is based on the methodologies discussed in subsequent paragraphs.



5.2.3 ED-Goa has proposed for rationalization of tariff categories including merger and modification of consumption slabs. However the projections discussed below for number of consumers, connected load/contacted demand and sales are based on the existing tariff structure of categories. It is submitted that the overall projections would be almost same and for the purpose of tariff proposal for FY 2015-16, the same are provided in Tariff Filing Formats for revenue calculation.

5.3 Number of Consumers

- 5.3.1 The Petitioner has adopted compounded annual growth rate (CAGR) of past years of each consumer category as per the provisional figures till FY 2013-14, revised projection figures of FY 2014-15 and has forecasted the number of consumers for the control period FY 2015-16 to FY 2017-18.
- 5.3.2 The Petitioner has adopted the methodology mentioned by the Commission and has taken the compounded annual growth rate (CAGR) of past years of each consumer category as per the provisional figures till FY 2013-14, revised projection figures of FY2014-15 and has forecasted the no. of consumers for the control period FY 2015-16 to FY 2017-18.
- 5.3.3 The detailed explanation for estimating number of consumers for FY 2015-16 to FY 2017-18 is provided in Section **6.2** and **6.3** of Business Plan for ED-Goa for first control period.
- 5.3.4 The following table summarises the number of consumers projected for the entire control period.

Cr. No.	Commune Cotonomi	Projection fo	ction for Number of Consumers (Nos.)			
Sr. No	Consumer Category	FY 2015-16	FY 2016-17	FY 2017-18		
1(a)	Tariff LTD/Domestic and Non-Comm.	488,471	498,240	508,205		
1(b)	Tariff LTD/Low Income Group	11,547	11,547	11,547		
1(c)	Tariff LTD/Domestic Mixed	1,405	1,405	1,405		
2	Tariff-LTC/Commercial	90,863	92,680	94,534		
3 (a)	Tariff-LTP/Motive Power	7,051	7,121	7,193		
3 (b)	Tariff-LTP/ Ice Manufacturing	69	73	77		
3(a)	Tariff-LTP/Mixed (Hotel Industries)	155	163	171		
4	Tariff-LTAG/Agriculture	11,145	11,145	11,145		
5	Tariff-LTPL/Public Lighting	2,740	2,740	2,740		
6	Tariff-LT PWW/Public Water Works	744	744	744		
	Total LT Category	614,190	625 <i>,</i> 859	637,760		
7	Tariff HT-Mixed	168	168	168		
8(a)	Tariff HTI/Industrial	400	404	408		
8(b)	Tariff HTI/Hotel Industries	111	112	113		
8(c)	Tariff HTI/Ice Manufacturing	2	2	2		
9	H.T.Industrial (Ferro Mettallurgical/ Steel Melting/ Power Intensive)	37	37	37		
10	Tariff-HTAG/Agriculture	41	41	41		
11	EHTI/Industrial	5	5	5		
12	H.T. PW/Public Water Supply & Sewage	35	36	37		
13	H.T. MES/Defence Establishments	12	12	12		
14	H.T. Industrial (Steel Rolling)	-	-	-		
15	Tariff HT-Industries (IT High Tech).	12	13	13		
	Total HT Category	824	830	837		
с	Temporary Supply	- 5,033	- 5,033	- 5,033		
16	Tariff-LT/Temporary	4,929	4,929	4,929		
17	Tariff-HT/Temporary	-	-	-		
	Total No. of Consumers	620,047	631,722	643,630		

5.4 Connected Load

- 5.4.1 The Petitioner has observed that there has not been significant increase in connected load/ contract demand of consumers during the last five years, therefore nil growth has been considered for all categories except LT Domestic and LT Commercial categories. For LT Domestic and LT Commercial categories a conservative growth rate of **0.5%** is adopted.
- 5.4.2 The detailed explanation for estimating connected load/ contract demand for FY 2015-16 to FY 2017-18 is provided in Section 6.4 of Business Plan for ED-Goa for first control period.



5.4.3 The following table summarises the connected load projected for the entire control period.

Sr. No.	Communication	Connected Load for Consumers (KW/KVA/HP)			
Sr. 190.	Consumer Categories	FY 2015-16	FY 2016-17	FY 2017-18	
1(a)	Tariff LTD/Domestic and Non-Comm.	1,642,607	1,650,820	1,659,074	
1(b)	Tariff LTD/Low Income Group	2,046	2,046	2,046	
1(c)	Tariff LTD/Domestic Mixed	3,191	3,191	3,191	
2	Tariff-LTC/Commercial	278,652	280,045	281,445	
3 (a)	Tariff-LTP/Motive Power	165,019	165,019	165,019	
3 (b)	Tariff-LTP/Ice Manufacturing	3,072	3,072	3,072	
3(a)	Tariff-LTP/Mixed (Hotel Industries)	4,569	4,569	4,569	
4	Tariff-LTAG/Agriculture	61,326	61,326	61,326	
5	Tariff-LTPL/Public Lighting	9,598	9,598	9,598	
6	Tariff-LT PWW/Public Water Works	5,600	5,600	5,600	
	Total LT Category	2,175,680	2,185,286	2,194,940	
7	Tariff HT-Mixed	74,767	74,767	74,767	
8(a)	Tariff HTI/Industrial	240,374	240,374	240,374	
8(b)	Tariff HTI/Hotel Industries	41,559	41,559	41,559	
8(c)	Tariff HTI/Ice Manufacturing	364	364	364	
9	H.T.Industrial (Ferro Mettallurgical/ Steel Melting/ Power Intensive)	111,840	111,840	111,840	
10	Tariff-HTAG/Agriculture	8,258	8,258	8,258	
11	EHTI/Industrial	51,833	51,833	51,833	
12	H.T. PW/Public Water Supply & Sewage	30,796	30,796	30,796	
13	H.T. MES/Defence Establishments	7,080	7,080	7,080	
14	H.T. Industrial (Steel Rolling)	-	-	-	
15	Tariff HT-Industries (IT High Tech).	6,658	6,658	6,658	
	Total HT Category	573,529	573,529	573 <i>,</i> 529	
		-	-	-	
С	Temporary Supply	8,025	8,025	8,025	
16	Tariff-LT/Temporary	7,502	7,502	7,502	
17	Tariff-HT/Temporary	-	-	-	

Table 32: Connected Load for FY 2015-16 to FY 2017-18

Note: All LT Connections expect 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

5.5 Energy Sales Forecast

5.5.1 It has been observed that the historical trend method has proved to be a reasonably accurate and well accepted method for estimating the load, number of consumers and energy consumption. Therefore ED-Goa has estimated the parameters for all consumer categories primarily based on the CAGR trend during past years.

- 5.5.2 For sales forecasting, ED-Goa has taken compounded annual growth rate (CAGR) of past years of sales of each consumer category as per the provisional sales till FY 2013-14, revised projection figures of FY 2014-15 and has forecasted the sales for the control period FY 2015-16 to FY 2017-18.
- 5.5.3 The detailed explanation for estimating category wise sales for FY 2015-16 to FY 2017-18 is provided in Section **6.5** of Business Plan for ED-Goa for first control period.

Sr. No.	Computer Catagoria	Sales in	% Growth	Sales	Projection ir	n Mus
Sr. NO.	Consumer Categories	Mus (FY	considered	FY 2015-16	FY 2016-17	FY 2017-18
1(a)	Tariff LTD/Domestic and Non-Comm.	722.12	5%	758.22	796.13	835.94
1(b)	Tariff LTD/Low Income Group	7.24	0%	7.24	7.24	7.24
1(c)	Tariff LTD/Domestic Mixed	7.16	0%	7.88	8.67	9.53
2	Tariff-LTC/Commercial	264.23	5%	277.45	291.32	305.88
3 (a)	Tariff-LTP/Motive Power	149.11	5%	156.56	164.39	172.61
3 (b)	Tariff-LTP/ Ice Manufacturing	6.51	0%	6.51	6.51	6.51
3(a)	Tariff-LTP/Mixed (Hotel Industries)	2.71	10%	2.98	3.28	3.60
4	Tariff-LTAG/Agriculture	25.06	0%	25.06	25.06	25.06
5	Tariff-LTPL/Public Lighting	39.32	0%	39.32	39.32	39.32
6	Tariff-LT PWW/Public Water Works	6.11	5%	6.42	6.74	7.07
	Total Low Tension	1,229.56		1,287.62	1,348.64	1,412.76
7	Tariff HT-Mixed	130.37	2%	133.16	136.02	138.94
8(a)	Tariff HTI/Industrial	603.69	5%	675.15	709.46	745.51
8(b)	Tariff HTI/Hotel Industries	133.22	5%	139.88	146.88	154.22
8(c)	Tariff HTI/Ice Manufacturing	1.03	0%	1.03	1.03	1.03
9	H.T.Industrial (Ferro Mettallurgical/					
3	Steel Melting/ Power Intensive)	565.75	2%	577.07	588.61	600.38
10	Tariff-HTAG/Agriculture	4.76	0%	4.76	4.76	4.76
11	EHTI/Industrial	175.39	0%	174.72	174.04	173.37
	H.T. PW/Public Water Supply & Sewage					
12		137.34	5%	144.49	152.02	159.93
13	H.T. MES/Defence Establishments	27.11	0%	27.11	27.11	27.11
14	H.T. Industrial (Steel Rolling)	-	1%	-	-	-
15	Tariff HT-Industries (IT High Tech).	21.00	0%	21.00	21.00	21.00
	Total High Tension	1,799.68		1,898.39	1,960.94	2,026.27
16	Tariff-LT/Temporary	38.43	0%	38.43	38.43	38.43
17	Hoarding / Sign Board	0.25	0%	0.25	0.25	0.25
	Total Sales	3,067.92		3,224.70	3,348.27	3,477.72

Table 33: Sales Projection for FY 2015-16 to FY 2017-18

5.5.4 The details of Number of Consumers, Connected Load and Sales for FY 2015-16 to FY 2017-18 are provided in **Format 1 of Tariff Filing Formats**.

5.6 T&D Loss

5.6.1 The proposed transmission and distribution loss trajectory by ED-Goa for the control period is mentioned below.



Table 34: T&D Loss Trajectory for First Control Period

Particulars	FY 2015-16	FY 2016-17	FY 2017-18
T&D loss (%)	13.75%	13.25%	12.75%

- 5.6.2 ED-Goa has considered a loss reduction of 0.50% for every year for the first control period.
- 5.6.3 ED-Goa submits that the meter reading, billing and collection process is being streamlined and is going through a transformation phase. 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.
- 5.6.4 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.
- 5.6.5 It is therefore submitted that due to the above reasons, the actual T&D Loss may be different than what is being projected in this Petition. The Hon'ble Commission may allow ED-Goa to revise the T&D loss figures after authenticated data starts flowing from the new billing system and getting energy audit results after installation of necessary meters at feeder and DT level.

5.7 Energy Balance

5.7.1 The following table shows the Energy Balance projected by ED-Goa for the first control period.

Sr. No.	Particulars	E	Energy Balance				
51. NO.		FY 2015-16	FY 2016-17	FY 2017-18			
1	Retail Sales to Consumers	3,225	3,348	3,478			
	Add: T&D Losses - %	13.75%	13.25%	12.75%			
	T&D Losses - MUs	514	511	508			
2	Energy Requirement at Goa Periphery	3,739	3,860	3,986			
3	Total Power Scheduled by ED-Goa						
	Scheduled Power from NTPC, RGPPL, NPCIL &	3,647	3,691	3,691			
	RSTPS	3,047	3,031	5,051			
	Add: Power from Open Market (tied-up)	62	156	282			
	Add: Power from Open Market (for shortfall)	15	-	-			
	Total						
4	Less: PGCIL Losses - %	5.33%	5.20%	5.04%			
	PGCIL Losses - MUs	198	200	200			
5	Total Power Purchased within Goa State						
	Add: Co-generation	186	186	186			
	Add: Renewable Energy Sources	27	27	27			
	Add: Independent Power Producers (IPP)	-	-	-			
	Total	213	213	213			
6	Energy Input at Periphery after PGCIL Losses &	3,739	3,860	3,986			
	State Power Purchase	3,739	5,800	3,380			

Table 35: Energy Balance for the Entire Control Period

- 5.7.2 Considering the retail sales to the consumers and adding the distribution loss, the net energy requirement for the first control period has been estimated in the table above.
- 5.7.3 The energy required by ED-Goa at State Periphery for FY 2015-16, FY 2016-17 and FY 2017-18 is 3,739 MU's, 3,860 MU's and 3,986 MU's respectively.
- 5.7.4 Transmission Loss: PGCIL losses are on account of two regions Western Region (WR) and Southern Region (SR). Therefore while computing the PGCIL losses, the losses at 3.8% and 12% are considered for WR and SR respectively.
- 5.7.5 The detail computation of energy balance and PGCIL losses with segregation into Western Region and Sothern Region is detailed in **Format 3 of Tariff Filing Formats** filed along with this Petition.



5.8 Power Purchase Quantum and Cost

5.8.1 The MYT Regulations, 2014 specifies the following provisions with respect to projecting power purchase quantum and cost.

"18. Power Purchase Quantum and Cost

18.1 Based on the sales forecast the power purchase quantum and cost shall be calculated.

18.2 The approved Power Purchase cost shall be net of expected revenue from sale of surplus power, if any, during lean period.

18.3 Revenue from sale of surplus power shall be estimated at weighted average price of bilateral purchases and power exchange rates for the same quarter of preceding year; subject to truing up.

18.4 If there is a short term requirement of power by the Distribution Licensee over and above the quantum as approved by the Commission and such requirement is on account of any factor beyond the control of the Licensee (shortage/non-availability of fuel, snow capping of hydro resources inhibiting power generation in sources stipulated in the plan, unplanned/forced outages of power generating units or acts of God), then the cost shall be directly passed on to the customer without prior approval of the Commission:

Provided that the cost of the additional power shall be allowed at the power exchange rate purchases.

Provider further that in such a case, the Distribution Licensee shall inform the Commission about the purchase of power over and above approved quantum with all of the supporting documents. Unless the Commission is satisfied that the additional power is capped by weighted average price of power exchange rates and bilateral market purchases for the same quarter, it may disallow the quantum and cost of this short term power procurement in the True Up order.

- 5.8.2 ED-Goa has provided the detailed description of projection of power purchase quantum for entire first control of FY 2015-16 to FY 2017-18 in **Chapter 7** of Business Plan submitted for the first control period.
- 5.8.3 The following table shows the power purchase quantum projected by ED-Goa for FY 2015-16 to FY 2017-18.



			MU's
Particulars	FY 2015-16	FY 2016-17	FY 2017-18
Central Sector Power Stations			
NTPC	3,200.30	3,200.30	3,200.30
KSTPS	1,472.90	1,472.90	1,472.90
KSTPS-III	35.27	35.27	35.27
VSTPS - I	264.26	264.26	264.26
VSTPS - II	95.73	95.73	95.73
VSTPS -III	81.34	81.34	81.34
VSTPS-IV	77.91	77.91	77.91
КБРР	56.90	56.90	56.90
GGPP	61.17	61.17	61.17
SIPAT- I	162.93	162.93	162.93
RSTPS	643.44	643.44	643.44
SIPAT- II	77.54	77.54	77.54
Mouda	84.87	84.87	84.87
Barh-II	86.04	86.04	86.04
	-		
NPCIL	248.40	290.64	290.64
KAPS Unit 1 and 2	111.75	111.75	111.75
TAPS Unit 3 and 4	77.79	77.79	77.79
KAPS Unit 3 and 4	58.85	101.09	101.09
	-		
Solar RPO	27.00	27.00	27.00
NVVN Solar	10.00	10.00	10.00
Solar Energy Corp. of India	17.00	17.00	17.00
	-		
Short Term Power (tied-up)	62.26	-	-
	-		
Trader/Open Market Short Term	14.89	155.80	282.05
	-		
Within State Generations	-		
CO- GENERATION	185.94	185.94	185.94
Goa Energy Private Limited	124.27	124.27	124.27
Goa Sponge & Power Limited	6.68	6.68	6.68
Sesa Goa Limited	55.00	55.00	55.00
Total Energy Availablity	3,738.79	3,859.68	3,985.93

Table 36: Power Purchase Quantum for FY 2015-16 to FY 2017-18

5.8.4 **Power Purchase Cost:** ED-Goa has considered the assumptions as discussed in the upcoming sections for projecting power purchase cost for the first control period.

Fixed Cost and Variable Cost for Central Generating Stations: ED-Goa has considered fixed cost of the Central Generating Station based on the petition filed by each of the respective stations for their control period of FY 2014-15 to FY 2018-19 before the Hon'ble CERC. ED-Goa has applied the allocation percentage on the total fixed cost filed by each of the generating stations to arrive at fixed cost of each station pertaining to ED-Goa.



ED-Goa has considered variable charge per unit for each of the Central Generating Stations based on the actual power purchase bills received for the month of October 2014 and November 2014. The following table shows the variable and fixed cost considered for entire control period.

Name of Plant	FY 2015-16		FY 20	16-17	FY 2017-18		
	Fixed (Rs.	Variable	Fixed (Rs.	Variable	Fixed (Rs.	Variable	
	Crores)	(Rs./unit)	Crores)	(Rs./unit)	Crores)	(Rs./unit)	
KSTPS	902.25	0.92	1,002.79	0.92	1,062.39	0.92	
KSTPS-III	541.04	0.91	543.99	0.91	539.09	0.91	
VSTPS - I	663.21	1.78	780.65	1.78	813.47	1.78	
VSTPS - II	464.42	1.68	481.47	1.68	496.79	1.68	
VSTPS -III	761.44	1.68	761.32	1.68	762.32	1.68	
VSTPS-IV	1,134.85	1.68	1,159.95	1.68	1,169.30	1.68	
KGPP	440.80	2.97	442.87	2.97	445.82	2.97	
GGPP	527.13	2.85	567.57	2.85	572.52	2.85	
SIPAT- I	1,908.24	1.37	1,915.27	1.37	1,911.39	1.37	
FSTPS	-	-	-	-	1	-	
RSTPS	947.29	2.40	1,022.90	2.40	1,066.13	2.40	
SIPAT- II	912.00	1.34	914.24	1.34	914.11	1.34	
Mouda	1,325.23	3.89	1,361.71	3.89	1,370.50	3.89	
Barh	1,467.12	3.85	1,490.15	3.85	1,509.18	3.85	
KAPS	-	2.38	-	2.38	-	2.38	
TAPS	-	2.88	-	2.88	-	2.88	

Table 37: Fixed Cost and Variable Cost for CGS for entire control period

Source: Fixed Charges from Petitions for FY15-19 control period and Variable Charges as per Oct & Nov 2014 Invoices

Solar RPO Status:

As regards fulfilment of Solar RPO is concerned, PPA has been executed by the Government with M/s NVVNL, New Delhi on 22th 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. 28-08-2014.

Further M/s Solar Energy Corporation of India, New Delhi vide letter no. SECI/JNNSM/P-2/B-1/Power Sale/851 dated 11th July 2014, has allocated 10 MW of Solar power to the State and also submitted Power Sale Agreement (PSA). The PSA to be executed with SECI has been submitted to the Government for approval for execution. The SECI will be supplying solar power of 10 MW @ Rs 5.50 per unit exclusive of transmission charges for a period of 25 years. It is anticipated that PSA will be executed shortly after negotiations on legal clauses and shall fulfil the solar RPO from 2015-16 till next 25 years.



To meet Solar RPO, ED-Goa will also purchase RECs in control period to ensure there is no carry forward of Solar RPO in second control period.

Non-Solar RPO Status:

Tender was invited by the Electricity Department – Goa for fulfilment of nonsolar RPO of FY 2014-15 and further 4 years period. There were three offers against the tender. The lowest offer was @ Rs 6.10 per unit at Goa Periphery but the commencement of supply was from 1st April 2015. Another offer was @ Rs. 7.25 at Goa periphery for commencement of power from current year itself.

As the rates offered were substantially higher, ED-Goa decided to purchase RECs to meet Non Solar RPO for FY 2014-15 and subsequent financial years. ED-Goa has planned to purchase RECs equivalent to ~ 85 MUs in FY 2014-15. Similarly it would also purchase RECs in control period to ensure there is no carry forward of Non-Solar RPO to the second control period.

The following table shows the Renewable Purchase Obligation for Solar and Non Solar for ED-Goa and the corresponding REC Certificates to be purchased for the respective years. The RPO obligation not met in any of the years is transferred to the ensuing year.



Sr.No.	Description	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	Sale within State	2,977.29	3,067.92	3,224.70	3,348.27	3,477.72
2	RPO Obligation in (%)					
	Solar	0.40%	0.60%	0.85%	1.15%	1.50%
	Non Solar	2.60%	2.70%	2.70%	2.80%	2.80%
3	RPO Obligation in (in MUs)					
	Solar	11.91	18.41	27.41	38.51	52.17
	Non Solar	77.41	82.83	87.07	93.75	97.38
4	Shortfall of RPO Obligation in					
	Past Years (in MUs)					
	Solar	19.78	-	-	-	-
	Non Solar	-	-	-	-	-
5	Total RPO Obligation including					
	Past Years (in MUs)					
	Solar	31.69	18.41	27.41	38.51	52.17
	Non Solar	77.41	82.83	87.07	93.75	97.38
6	RPO Compliance during the					
	year (in Mus)					
	Solar	-	4.75	27.00	27.00	27.00
	Non Solar	-	-	-	-	-
7	Shortfall in RPO Compliance					
	(in Mus)					
	Solar	31.69	13.66	0.41	11.51	25.17
	Non Solar	77.41	82.83	87.07	93.75	97.38
8	REC Certificate Purchase (in					
	Mus)					
	Solar	-		10.00	25.00	47.43
	Non Solar	-	85.00	120.00	120.00	113.44
9	Cumulative Shortfall in RPO					
	Compliance (in Mus)					
	Solar	31.69	45.35	35.76	22.26	-
	Non Solar	77.41	75.24	42.31	16.06	-
10	REC Certificate Price (Rs./Unit)					
	Solar	-	9.30	5.80	5.80	5.80
	Non Solar	-	1.50	1.50	1.50	1.50
11	REC Certificate Cost (Rs.					
	Crores)					
	Solar	-	-	5.80	14.50	27.51
	Non Solar	-	12.75	18.00	18.00	17.02
	Total	-	12.75	23.80	32.50	44.53

Note: Price for Solar and Non Solar is taken as per CERC REC Order dated 13th June 2011 (142/2011) for FY 2014-15 and as per CERC REC Order dated 30th December 2014 (SM/016/2014) for FY 2015-16 onwards.

Price for Solar and Non Solar is taken as per CERC REC Order dated 13th June 2011 (142/2011) for FY 2014-15 and as per CERC REC Order dated 30th December 2014 (SM/016/2014) for FY 2015-16 onwards.



Power Purchase cost for Traders: The power purchase cost of traders have been projected based on the price per unit quoted under Letter of Intent (LOI) issued by ED-Goa for respective months of purchase.

Co-generation sources: The power purchase cost of Co-generation sources has been projected based on the actual price per unit being paid during the first half of FY 2014-15. The variable cost per unit for Co-Generation Stations (existing as well as upcoming) has been taken at Rs. **2.40** /unit in line with the PPA signed with the Generators.

PGCIL Transmission Charges: The transmission charges have been projected based on the charges mentioned in Regional Transmission Account vide WRPC circular no. WRPC/Comml-I/RTA/2014/11.0/10968 dated 4th December 2014 for injection and drawl of western region power and Regional Transmission Account vide letter No. SRPC/SE-1/5(RTA)/2014/ dated 3rd December 2014 for injection and drawl of southern region power as base figures over which escalation is assumed for FY 2015-16 and onwards.

The transmission charges for FY 15-16 onwards are computed based on the said RTA statement wherein rates and capacity in MW are considered and withdrawal charges have been arrived for ED-Goa. ED-Goa has worked out transmission charges for the last three years and calculated 3 year CAGR and year on year CAGR for reference. The working of transmission charges and considered escalation is shown in the table below.



Regions	Nov-11	Nov-12	Nov-13	Nov-14	3 Yr CAGR %	Nov-13/ Nov 14 %	Annual Escalation Assumed
Withdrawal Charges							
Southern Region	80,000	74,520	101,818	88,067	4.9%	-13.5%	5.0%
Western Region	70,000	79,968	109,391	118,067	29.9%	7.9%	10.0%
Injection Charges							
Ramagundam - SR	80,000	59,520	71,818	88,067	4.9%	22.6%	5.0%
CGS - WR							
KSTPS	85,000	109,968	94,391	103,067	10.1%	9.2%	10.0%
KORBA - III	85,000	109,968	94,391	103,067	10.1%	9.2%	10.0%
VSTPS - I	100,000	109,968	109,391	103,067	1.5%	-5.8%	5.0%
VSTPS - II	100,000	109,968	109,391	103,067	1.5%	-5.8%	5.0%
VSTPS -III	100,000	109,968	109,391	103,067	1.5%	-5.8%	5.0%
VSTPS -IV	-	-	109,391	103,067	0.0%	-5.8%	5.0%
KGPP	70,000	79,968	109,391	118,067	29.9%	7.9%	10.0%
GGPP	70,000	79,968	109,391	118,067	29.9%	7.9%	10.0%
SIPAT-2	100,000	109,968	94,391	103,067	1.5%	9.2%	5.0%
KAPS 1 & 2	70,000	79,968	109,391	118,067	29.9%	7.9%	10.0%
KAPS 3 & 4	-	-	-	118,067	0.0%	0.0%	10.0%
TAPS 3 & 4	100,000	79,968	79,391	88,067	-6.2%	10.9%	5.0%
SIPAT-1	100,000	109,968	94,391	103,067	1.5%	9.2%	5.0%
Mauda	-	-	79,391	88,067	0.0%	10.9%	10.0%
Barh-II	-	-	-	-	0.0%	0.0%	0.0%
RGPPL	-	109,968	109,391	118,067	0.0%	7.9%	5.0%

Sources: RTA of WR & SR for respective month

The following table shows the transmission charges computed for withdrawal of power for the first control period based on the above escalation considered.

Financial Year	Southern Region				Western Region				SR + WR
	Annual Escalation	Rates Rs/MW/	Monthly Quantum	Total Charges		Rates Rs/Mw/	Monthly Quantum	Total Charges	Total Charges
	%	Month	(MW)	(Rs.Crs)	%	Month	(MW)	(Rs.Crs)	(Rs.Crs)
FY 2014-15	0.0%	88,067	93.28	9.86	0.0%	118,067	388.01	54.97	64.83
FY 2015-16	5.0%	92,470	93.28	10.35	10.0%	129,874	388.01	60.47	70.82
FY 2016-17	5.0%	97,094	93.28	10.87	10.0%	142,861	388.01	66.52	77.39
FY 2017-18	5.0%	101,949	93.28	11.41	10.0%	157,147	388.01	73.17	84.58

Table 40: Transmission Charges for Withdrawal of Power

Furthermore ED-Goa has considered POC charges as per November 2014 RTA bill for each of the generators and therefore derived monthly charges for each of the generators based on MW capacity. ED-Goa has then considered annual escalation on the cost arrived through this mechanism. The following table shows the transmission charges arrived for the control period on the generator end.



	Rates	Monthly	Monthly	Annual	FY 2015-16	FY 2016-17	FY 2017-18
Stations	Rs/Mw/	Quantum	, Charges	Inflation	(Rs.Crs)	(Rs.Crs)	(Rs.Crs)
	Month *	(MW) *	(Rs.Crs)	%			
RSTPS - SR	88,067.00	100.00	0.88	0.05	11.10	11.65	12.23
CGS - WR	-	-	-	-	-	-	-
KSTPS	103,067.00	211.93	2.18	0.10	28.83	31.72	34.89
KORBA - III	103,067.00	5.41	0.06	0.10	0.74	0.81	0.89
VSTPS - I	103,067.00	36.73	0.38	0.05	4.77	5.01	5.26
VSTPS - II	103,067.00	13.30	0.14	0.05	1.73	1.81	1.90
VSTPS -III	103,067.00	11.30	0.12	0.05	1.47	1.54	1.62
VSTPS -IV	103,067.00	13.02	0.13	0.05	1.69	1.78	1.86
KGPP	118,067.00	12.38	0.15	0.10	1.93	2.12	2.33
GGPP	118,067.00	12.64	0.15	0.10	1.97	2.17	2.38
SIPAT-2	103,067.00	11.24	0.12	0.05	1.46	1.53	1.61
KAPS 1 & 2	118,067.00	15.47	0.18	0.10	2.41	2.65	2.92
KAPS 3 & 4	118,067.00	12.60	0.15	0.10	1.96	2.16	2.38
TAPS 3 & 4	118,067.00	15.68	0.19	0.05	2.33	2.45	2.57
SIPAT-1	103,067.00	23.61	0.24	0.05	3.07	3.22	3.38
Mauda	88,067.00	13.02	0.11	0.10	1.51	1.66	1.83
Barh - II	-	13.20	-	-	-	-	-
Total - (Rs.)	-	521.52	5.17	-	66.97	72.28	78.06

Table 41: Transmission Charges for Generators

* POC charges as per Nov 2014 RTA bill (SR + WR)

Considering the above escalations for drawl and injection charges, ED-Goa has projected the transmission charges for control period.

The transmission charges for KPTCL are projected considering **7.5 paise per unit** on power from Ramagundam plant. Other fees and charges of SLDC, SCADA and reactive charges and MSETCL charges are considered twice of cost estimated in H2 of FY 2014-15.

The following table shows the summary of transmission charges which are arrived based on the transmission charges for generation and withdrawal of power for the entire control period.

Particulars	FY 15-16	FY 16-17	FY 17-18
Faiticulais	(Rs.Crs)	(Rs.Crs)	(Rs.Crs)
Part - A Transmission Charges	70.82	77.39	84.58
Part - B Transmission Charges	66.97	72.28	78.06
KPTCL Wheeling Charges	11.48	11.48	11.48
Fees and charges of SLDC - WR	0.52	0.52	0.52
Fees and charges of SLDC - SR	0.46	0.46	0.46
SCADA & Reactive charges	0.76	0.76	0.76
MSETCL (RGPPL)	2.66	2.66	2.66
Total Transmission Charges	153.67	165.55	178.52

 Table 42: Summary of Transmission Charges for the control period



The following table shows the quantum and power purchase cost from different sources for the control period.

Dentioulene	FY 20:	15-16	FY 20	16-17	FY 20	17-18
Particulars	Units (MU's)	Rs. Crores	Units (MU's)	Rs. Crores	Units (MU's)	Rs. Crores
Central Sector Power						
Stations						
NTPC	3,200.30	816.45	3,200.30	835.55	3,200.30	845.17
KSTPS	1,472.90	231.57	1,472.90	241.65	1,472.90	247.63
KSTPS-III	35.27	8.49	35.27	8.51	35.27	8.47
VSTPS - I	264.26	67.46	264.26	70.77	264.26	71.70
VSTPS - II	95.73	22.49	95.73	22.70	95.73	22.89
VSTPS -III	81.34	22.10	81.34	22.10	81.34	22.11
VSTPS-IV	77.91	26.90	77.91	27.20	77.91	27.31
KGPP	56.90	25.90	56.90	25.94	56.90	25.99
GGPP	61.17	28.23	61.17	29.00	61.17	29.10
SIPAT- I	162.93	43.45	162.93	43.52	162.93	43.48
RSTPS	643.44	220.65	643.44	224.26	643.44	226.31
SIPAT- II	77.54	20.23	77.54	20.25	77.54	20.25
Mouda	84.87	49.85	84.87	50.27	84.87	50.38
Barh-II	86.04	49.14	86.04	49.37	86.04	49.56
NPCIL	248.40	65.43	290.64	75.87	290.64	75.87
KAPS Unit 1 and 2	111.75	27.61	111.75	27.61	111.75	27.61
TAPS Unit 3 and 4	77.79	23.28	77.79	23.28	77.79	23.28
KAPS Unit 3 and 4	58.85	14.54	101.09	24.98	101.09	24.98
Solar RPO	27.00	17.34	27.00	17.34	27.00	17.34
NVVN Solar	10.00	7.99	10.00	7.99	10.00	7.99
Solar Energy Corp. of	17.00	0.25	17.00	0.25	17.00	0.25
India	17.00	9.35	17.00	9.35	17.00	9.35
Short Term Power (tied-	62.26	23.02				
up)	02.20	23.02	-	-	-	-
Trader/Open Market	14.89	5.51	155.80	62.32	282.05	112.82
Short Term	14.05	5.51	155.80	02.32	282.05	112.02
Within State Generations						
CO- GENERATION	185.94	44.63	185.94	44.63	185.94	44.63
Goa Energy Private	124.27	29.82	124.27	29.82	124.27	29.82
Limited	124.27	23.02	124.27	23.02	124.27	29.02
Goa Sponge & Power	6.68	1.60	6.68	1.60	6.68	1.60
Limited	0.08	1.00	0.08	1.00	0.08	1.00
Sesa Goa Limited	55.00	13.20	55.00	13.20	55.00	13.20
REC Certificates Cost	-	18.00	-	18.00	-	17.02
PGCIL Transmission		153.67		165 55		178 53
Charges	-	103.07	-	165.55	-	178.52
Total Power Purchase	3,738.79	1,144.05	3,859.68	1,219.25	3,985.93	1,291.37

5.8.5 The Hon'ble Commission is kindly requested to approve the total power purchase cost of for the first control period as stated in the table above. The details of the Power Purchase Expenses for FY 2015-16 to FY 2017-18 are provided in **Format 4** of Tariff Filing Formats.



5.9 Operation and Maintenance (O&M Expenses)

- 5.9.1 Operation & Maintenance expenses comprise of the following heads of expenditure viz.
 - Employee Expenses
 - Administration & General Expenses
 - Repairs & Maintenance Expenses
- 5.9.2 Operation and Maintenance (O&M) Expenses comprising of Employee Expenses, Administration & General (A&G) Expenses and Repairs & Maintenance (R&M) Expenses are now linked to certain parameters provided in MYT Regulations 2014. Department has proposed norms in the Business Plan mentioning that JERC may approve norms in such a manner that the O&M expenses for future years should not be less than that of actual of previous year plus inflation plus arrears plus pay revisions if any and pension/gratuity etc.
- 5.9.3 The JERC (Multi Year Distribution Tariff) Regulations, 2014 notifies that the Hon'ble Commission will stipulate a separate trajectory of norms for each of the component of O&M expenses viz., Employee cost, R&M expense and A&G expense. The relevant extract of the Regulation is mentioned as follows.

"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

(b) Norms shall be defined in terms of combination of number of personnel per 1000 consumers and number of personnel per substation along with annual expenses per personnel for Employee expenses; combination of A&G expense per personnel and A&G expense per 1000 consumers for A&G expenses and R&M expense as percentage of gross fixed assets for estimation of R&M expenses:

(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.

(f) The norms in the trajectory shall be specified over the control period with due consideration to productivity improvements.

(g) The norms shall be determined at constant prices of base year and escalation on account of inflation shall be over and above the baseline.

(h) The Distribution Licensee specific trajectory of norms shall be identified by the Commission on the basis of absolute and relative analysis.

(i) In absolute analysis, Distribution Licensee's audited accounts of operations for last three years, expenses claimed for control period, historically approved cost, and prudence check shall be used by the Commission to estimate values of norms.

(j) In relative analysis, performance parameters of other Distribution Licensees within the same state or in other states shall be considered by the Commission to estimate norms.

Provided that other Distribution Licensees so chosen shall have similar profile as that of the Distribution Licensee under consideration in terms of consumer mix, type of license area (city, state, etc.) type of distribution networks, viz., underground/overhead, HT-LT ratio, etc.

(k) Suitable average of outcomes of absolute and relative analysis shall be taken by the Commission to fix the norms over the control period for the Distribution Licensee.

Emphasis added

- 5.9.4 ED-Goa has made the detailed description of all components of O&M expenses along with the norms specified for derivation of the expenses. The details are provided in **Chapter 9** of Business Plan for first control period submitted by ED-Goa where norms are proposed for approval of Hon'ble Commission.
- 5.9.5 Based on the norms specified in the Business Plan, ED-Goa has derived the O&M expenses for entire control period. The expenses are further escalated with an escalation factor as specified in the MYT Regulations, 2014. The relevant clause for escalation on Employee Cost, R&M and A&G are specified as below.



"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:

EMPn = (EMPb * WPI inflation) + Provision.....Emphasis Added

"21.2 Repairs and Maintenance Expenses

Repairs and Maintenance (R&M) expenses shall be calculated as percentage (as per the norm defined) of Opening Gross Fixed Assets for the year governed by following formula:

R&Mn = Kb* GFAn* Inflation Index

Where:....

..... Inflation Index is CPI : WPI :: 60 : 40

CPI is Consumer Price Index issued by Govt. of India & these indices are for immediately preceding three years

WPI is whole sale price Index issued by Govt. of India & these indices are For immediately preceding three years

"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&Gn = (A&Gb * WPI inflation) + Provision

5.9.6 As seen from the above extract, Employee expenses and A&G expenses are to be escalated at WPI Inflation rate, where as R&M expenses are to be escalated at a rate which is weighted average of WPI and CPI inflation index at 40:60 ratios. The following table shows the inflationary impact for O&M expenses considered for the control period.



Particulars	Computati	Computation of WPI Inflation			tion of CP	Inflation
	Average	Increase	3 Yrs	Average	Increase	3 Yrs
	WPI	%	Average	CPI	%	Average
FY 2014-15	177.64	6.00%	7.42%	236.00	9.68%	9.50%
FY 2013-14	167.58	7.33%		215.17	10.44%	
FY 2012-13	156.13	8.94%		194.83	8.39%	
FY 2011-12	143.33	-	-	179.75	-	-
Weightage			0.40			0.60
Weighted Index			2.97%			5.70%
Combined Inflation 8.67%						

Table 44: Inflation Considered for FY 2015-16 to FY 2017-18

- 5.9.7 As seen from the above table Employee and A&G expenses are escalated at a rate of **7.42%** and R&M expenses are escalated at a rate of **8.67%** for the entire control period.
- 5.9.8 The following table summarises the operation and maintenance expenses projected for the first control period based on the norms specified and the inflationary impact for future years.

O& M Expenses	Unit	Norm	FY 14-15	FY 15-16	FY 16-17	FY 17-18
Sales	MUs		3,068	3,225	3,348	3,478
No of Consumers	Nos		608,601	620,047	631,722	643,630
Opening GFA	Rs.Crs		961.50	1,144.13	1,619.63	2,431.13
No. of Employees (at the end of FY)	Nos		7,387			
No. of Substations (33/11KV)	Nos		53	55	56	57
WPI Index for Employee & A&G Expenses	%	7.42%				
CPI: WPI Index for R&M Expenses	%	8.67%				
Employee Expenses						
Computation of No. of Employees			225.72	7,007	7,136	7,266
No. of Empl. per substation	Nos	76.00		4,217	4,293	4,369
No. of Employees/ 1000 Consumers	Nos	4.50		2,790	2,843	2,896
Annual expenses per Employee	(Rs. Lakh/ employee)	3.00		21,022	21,408	21,797
Total	Rs.Crs			210.22	214.08	217.97
Total Employee Expenses with Inflation	Rs.Crs		225.72	225.83	229.97	234.15
Total Employee Expenses with Inflation and Pension Provision	Rs.Crs		231.00	232.45	236.72	241.26
A&G Expenses						
Linked to Consumers	Rs.Lakh/ 1000 Cons.	1.20	9.97	7.44	7.58	7.72
Linked to No. of Employees	(Rs. Lakh/ employee)	0.11		7.71	7.85	7.99
A&G Expenses	Rs.Crs			15.15	15.43	15.72
Total A&G Expenses with Inflation	Rs.Crs		9.97	16.27	16.58	16.88
R&M Expenses						
R&M Expenses (Linked to Op. GFA)	% of Op.GFA	3.0%	44.33			
R&M Expenses	Rs.Crs			34.32	48.59	72.93
Total R&M Expenses with Inflation	Rs.Crs		44.33	37.30	52.80	79.26
Total O&M Expenses	Rs.Crs		280.03	279.40	299.35	330.29

Table 45: Operation and Maintenance Expense for FY 2015-16 to FY 2017-18



- 5.9.9 ED-Goa has arrived at pension provision for the first control period; which is computed for permanent employees (As shown in Tariff Format No.15) at the rate of average yearly contribution of Rs. **11 Lakhs**. The same has been added to the employee expenses as derived above after considering inflationary impact.
- 5.9.10 It is submitted to the Hon'ble Commission that the number of employees calculated in the above table for FY 2015-16 to FY 2017-18 are as per norms specified in the MYT Regulations, 2014. However the number of employees projected by ED-Goa for the first control period is on a higher side as compared to that given in the table above.
- 5.9.11 ED-Goa submits that necessary post needs to be filled up as per requirement and hence it's an uncontrollable factor. The number of employees projected by ED-Goa for FY 2015-16 to FY 2017-18 is submitted in **Format 15** of Tariff Filing Formats.
- 5.9.12 The Hon'ble Commission is kindly requested to approve the total O&M Expenses for the first control period as stated in the table above. The Hon'ble Commission is also requested to ensure that norms may be approved in such a manner that ED-Goa gets at least additional amount over its previous years as these are base cost and it cannot get reduced by mere application of norms or change of Tariff Regulations.

5.10 Capital Expenditure

5.10.1 The MYT Regulations, 2014 specifies the following provisions for projection of capital expenditure.

"22 Capital Investment Plan

(a) Capital expenditure shall be considered on scheme wise basis.

(b) For capital expenditure greater than Rs. 10 Crore (Rupees Ten Crore), the Distribution Licensee shall seek prior approval of the Commission.

(c) The Distribution Licensee shall submit detailed supporting documents while seeking approval from the Commission.

Provided that supporting documents shall include but not limited to necessity and purpose of investment, capital structure, capitalization schedule, financing plan and cost benefit analysis:



d) The approval of the capital expenditure by the Commission for the ensuing year shall be in accordance with load growth, system extension, rural electrification, distribution loss reduction or quality improvement as proposed in the Distribution Licensee's supporting documents.

(e) The Commission may also undertake a detailed review of the actual works compared with the works approved in the previous Tariff Order while approving the capital expenditure for the ensuing year.

(f) In case the capital expenditure is required for emergency work, the licensee shall submit an application, containing all relevant information along with reasons justifying the emergent nature of the proposed work, seeking post facto approval by the Commission.

(g) The Distribution Licensee shall take up the work prior to receiving the approval from the Commission provided that the emergent nature of the scheme has been certified by its competent authority.

(h) If capital expenditure is less than Rs. 10 Crore (Rupees Ten Crore), the Distribution Licensee shall undertake the execution of the plan with simultaneous notification to the Commission with all of the relevant supporting documents.

(i) During the true-up exercise, the Commission shall take appropriate action as is mentioned in these regulations.

(j) Consumer's contribution towards cost of capital asset shall be treated as capital receipt and credited in current liabilities until transferred to a separate account on commissioning of the assets.

(k) An amount equivalent to the depreciation charge on such assets for the year shall be appropriated from this account as income to the profit and loss account over the useful life of the asset.

- 5.10.2 ED-Goa has projected the capital expenditure and capitalization for the first control period starting from FY 2015-16 to FY 2017-18. The detailed scheme wise explanation and the schemes to be carried out in ensuing year are listed out in Chapter 8 of Business Plan submitted by ED-Goa to the Hon'ble Commission.
- 5.10.3 The following table summarises the capital expenditure and capitalization projected for FY 2015-16 to FY 2017-18.



Table 46: Capital Expenditure and Capitalization for FY 2015-16 to FY 2017-18

				Rs. Crores		
Sr. No.	Particulars	Ensuing Year (Projections)				
51. NO.		FY 2015-16	FY 2016-17	FY 2017-18		
1	Capital Expenditure	817.00	1,193.00	895.00		
2	Capitalization	475.50	811.50	1,381.50		

5.10.4 It is submitted that the scheme wise details of capital expenditure and capitalization for each of the year during the control period has also been provided in **Format 5** of Tariff Filing Formats.

5.11 Depreciation

5.11.1 The MYT Regulations, 2014 specifies the following provisions for projection of Depreciation.

"23. Depreciation

(a)Depreciation shall be calculated for each year of the control period on the original cost of the fixed assets of the corresponding year.

(b)Depreciation shall not be allowed on assets funded by capital subsidies, consumer contributions or grants.

(c)Depreciation shall be calculated annually as per straight-line method over the useful life of the asset at the rate of depreciation. The same shall be as specified in the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2014. (The same may vary as notified by CERC from time to time.)

(d)The residual value of assets shall be considered as 10% and depreciation shall be allowed to a maximum of 90% of the original cost of the asset.

Provided that Land shall not be treated as a depreciable asset and its cost shall be excluded while computing 90% of the original cost of the asset.

(e) Depreciation shall be charged from the first year of operation of the asset. Provided that in case the operation of the asset is for a part of the year, depreciation shall be charged on proportionate basis.

(f) A provision of replacement of assets shall be made in the capital investment plan.

- 5.11.2 Depreciation has been calculated taking into consideration the opening balances of assets at the beginning of the year. The addition to assets has been considered equal to the amount capitalized during the year. The depreciation rate considered is **5.28%** which is the average depreciation rate.
- 5.11.3 The following table shows the depreciation projected by ED-Goa for the entire control period.

				Rs. Crores
Sr.No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Opening Gross Fixed Asset	1,043.09	1,350.59	1,706.09
2	Add: Assets added during year (e	307.50	355.50	1,116.50
3	Less: Withdrawal during year	-	-	-
4	Closing Gross Fixed Asset	1,350.59	1,706.09	2,822.59
5	Average Gross Fixed Asset	1,196.84	1,528.34	2,264.34
6	Average Depreciation Rate	5.28%	5.28%	5.28%
	Total Depreciation for year	63.19	80.70	119.56

Table 47: Depreciation for FY 2015-16 to FY 2017-18

5.11.4 The detailed calculation has been provided in **Format 12** of Tariff Filing Formats filed along with this Petition. The Hon'ble Commission is requested to approve the depreciation as shown in the table above.

5.12 Interest on Loan

5.12.1 The MYT Regulations, 2014 specifies the following provisions for projection of Interest on Loan.

"24 Interest on loan

(a) The Distribution Licensee shall provide detailed loan-wise, project-wise and utilization-wise details of all of the pending loans.

(b) If the equity actually 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.

(c) Actual loan or normative loan, if any, shall be referred as gross normative loan in this Regulation. (d) The normative loan outstanding as of 1st April of control period shall be computed by deducting the cumulative repayment as approved by the Commission (basis as mentioned below) up to 31st March of current period (a year before control period)from the gross normative loan.

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

(f) Notwithstanding any moratorium period availed by the Distribution Licensee, the repayment of the loan shall be considered from the first year of the control period as per annual depreciation allowed.

(g) The rate of interest shall be the weighted average rate of interest calculated on the basis of actual loan portfolio at the beginning of each year of the control period, in accordance with terms and conditions of relevant loan agreements, or bonds or nonconvertible debentures.

Provided that if no actual loan is outstanding but normative loan is still outstanding, the last available weighted average rate of interest shall be applicable.

Provided further that the interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

Provided also that exception shall be made for the existing loans which may have different terms as per the agreements already executed if the Commission is satisfied that the loan has been contracted for and applied to identifiable and approved projects.

(i) The Distribution Licensee shall make every effort to refinance the loan as long as it results in net benefit to the consumers.

Provided that the cost associated with such refinancing shall be eligible to be passed through in tariffs and the benefit on account of refinancing of loan and interest on loan shall be shared in the ratio of 50:50 between the Distribution Licensee and the consumers.

Provided further that the Distribution Licensee shall submit the calculation of such benefit to the Commission for its approval.



(i) The Distribution Licensee shall enable tracking of the loans converted into grants under schemes like APDRP by providing information and data regularly to the Commission and for ensuring that the interest on these loans which has been passed on to the consumers inappropriately in the earlier years shall be recovered from the Distribution Licensee.

- 5.12.2 Based on the above Regulations, ED-Goa has calculated interest on Loan for the first control period in the following manner.
- 5.12.3 ED-Goa has considered opening loan for FY 2015-16 based on normative closing of FY 2014-15 as discussed in the previous chapter. The loan addition during the year for the entire control period has been considered by taking 70% of the asset addition during the year net of asset created due to grants received for APDRP Part B/IPDS Scheme and net of assets created from ED fund. The following table shows the Net additions to GFA that have been considered to arrive at normative loan and equity addition during the control period.

Sr. No.	Particulars	Current Year (Prov. Actual)	Current Year (Rev. Est)	Ensuing Year (Projections)		ctions)
		FY13-14	FY14-15	FY15-16	FY16-17	FY17-18
1	2	3	4	5	6	7
1	Additions to GFA	144.66	182.63	475.50	811.50	1,381.50
2	Less: 60% Grant Component of APDRP Part-B / IPDS scheme	-	-	120.00	360.00	240.00
3	Less: Schemes out of ED Fund	38.23	62.81	48.00	96.00	25.00
4	Net Additions to GFA	106.43	119.82	307.50	355.50	1,116.50

Table 48: Net GFA Additions for FY 2015-16 to FY 2017-18

- 5.12.4 The normative repayments are in line with the depreciation projected for the control period. The interest rate considered **11.75%** which is the weighted average interest rate as per actual loan drawn by ED-Goa. The letter of credit charges for all the years has been considered in line with that estimated during FY 2014-15.
- 5.12.5 The following table shows the interest calculation for the first control period based on the calculation discussed above.



				Rs. Crores
Sr.No.	Sr.No. Particulars		FY 2016-17	FY 2017-18
1	Opening Normative Loan	632.31	784.37	952.52
2	Add: Normative Loan during year (70% of Capitalisation)	215.25	248.85	781.55
3	Less: Normative Repayment	63.19	80.70	119.56
4	Closing Normative Loan	784.37	952.52	1,614.52
5	Average Normative Loan	708.34	868.45	1,283.52
6	Rate of Interest	11.75%	11.75%	11.75%
7	Interest on Normative Loan	83.23	102.04	150.81
8	Add: Letter of Credit Charges	4.97	4.97	4.97
9	Total Interest & Finance Charges	88.20	107.02	155.79

Table 49: Interest on Loan for FY 2015-16 to FY 2017-18

5.12.6 The detailed calculation has been provided in Format 6 of Tariff Filing Formats filed along with this Petition. The details of actual loan are also provided in Format 10 for reference of the Hon'ble Commission. The Hon'ble Commission is requested to approve the interest on loan as shown in the table above.

5.13 Interest on Working Capital

5.13.1 The MYT Regulations, 2014 specifies the following provisions for projection of Interest on Working Capital.

"25 Interest on Working Capital

Working capital for retail supply activity of the licensee shall consist of: (i) Receivables of two months of billing

(ii) Less power purchase cost of one month

(iii) Less consumer security deposit but excluding Bank Guarantee/Fixed Deposit Receipt

(iv) Inventory for two months based on annual requirement for previous year The rate of interest on working capital shall be equal to the base rate for the 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 licensee has not taken working capital loan from any outside agency or has exceeded the working capital loan worked out on the normative figures.

5.13.2 ED-Goa submits that the above provisions of MYT Regulations, 2014 specified for Interest on Working Capital is only for retail supply business, which is one part of business of ED-Goa. The Regulations does not specify provisions for calculating Interest on Working Capital for wheeling business. The ARR that is being calculated here relates to both retail supply business and wheeling business and



therefore, ED-Goa is considering the provisions from Terms and Conditions of Tariff Regulations, 2009 for calculating Interest on Working Capital.

5.13.3 The following provisions are considered for calculating Interest on Working Capital for the first control period.

"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 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."

5.13.4 Based on the above provisions, ED-Goa has calculated interest on working capital for the entire control period. The following table shows the IWC for FY 2015-16 to FY 2017-18.

				Rs. Crores
Sr.No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Power Purchase Cost - 1 Month	95.82	102.81	109.91
2	Employee Cost - 1 Month	19.37	19.73	20.11
3	Administration & General Expenses - 1 Month	1.36	1.38	1.41
4	R&M Cost - 1 Month	3.11	4.40	6.60
5	Less: Security Deposit Opening Balance	90.71	91.85	93.02
6	Total	28.95	36.47	45.01
7	Interest Rate *	14.75%	14.75%	14.75%
8	Interest on working capital	4.27	5.38	6.64

Table 50: Interest on Working Capital for FY 2015-16 to FY 2017-18
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* SBI Lending Rate as on 1st April of relevant Financial year and for FY 14-15, latest rate is taken

5.13.5 The detailed calculation has been provided in **Format 18-19** of Tariff Filing Formats filed along with this Petition. The Hon'ble Commission is requested to approve the interest on working capital shown in the table above as per Regulation 2009.

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5.14 Return on Equity

5.14.1 The MYT Regulations, 2014 specifies the following provisions for projection of Return on Equity.

"27 Return on equity

(a) Return on equity shall be computed on 30% of the capital base or actual equity, whichever is lower:

Provided that assets funded by consumer contribution, capital subsidies/grants and corresponding depreciation shall not form part of the capital base. Actual equity infused in the Distribution Licensee as per book value shall be considered as perpetual and shall be used for computation in this Regulation.

(b) The return on the equity invested in working capital shall be allowed from the date of start of commercial operation.

(c) 16% post-tax return on equity shall be considered irrespective of whether the Distribution Licensee has claimed return on equity in the ARR petition.

- 5.14.2 The Return on Equity has been calculated based on normative opening equity for FY 2015-16 which as the normative closing equity for FY 2014-15 as discussed in the previous chapter. The equity additions during each of the years is 30% of the asset capitalized during the respective years net of asset addition due to grants received for APDRP Part B/IPDS Schemes and net of Asset created due to ED fund. The rate of equity considered is as specified in the Regulations.
- 5.14.3 The following table shows the calculation of return on equity for first control period.

				Rs. Crores
Sr.No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Opening Equity	312.93	405.18	511.83
2	Add: Equity for the year (30% of Capitalisation)	92.25	106.65	334.95
3	Closing Equity	405.18	511.83	846.78
4	Average Equity	359.05	458.50	679.30
5	Rate of Equity	16%	16%	16%
6	Return on Equity *	57.45	73.36	108.69

Table 51: Return on Equity for FY 2015-16 to FY 2017-18

* Return on Equity principle is adopted from FY15-16 onwards as per MYT Distribution Regulations 2014

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5.14.4 The detailed calculation has been provided in **Format 6** of Tariff Filing Formats filed along with this Petition. The Hon'ble Commission is requested to approve the return on equity as shown in the table above.

5.15 Interest on Security Deposit

- 5.15.1 The opening of security deposit for FY 2015-16 has been considered based on closing of FY 2014-15 as discussed in previous chapter. The addition in consumer security deposits is based on the number of consumers added during the respective years. The interest rate considered is **9.00%** based on the RBI bank rate as specified in the Regulations.
- 5.15.2 The following table shows the interest on security deposit for FY 2015-16 to FY 2017-18.

				Rs. Crores
Sr.No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Opening Security Deposit	90.71	91.85	93.02
2	Add: Deposits during the Year	1.14	1.17	0.97
3	Less: Deposits refunded	-	-	-
4	Closing Security Deposit	91.85	93.02	93.98
5	RBI Bank Rate	9.00%	9.00%	9.00%
6	Interest on Security Deposit	8.27	8.37	8.46

Table 52: Interest on Security Deposit for FY 2015-16 to FY 2017-18

5.15.3 The detailed calculation has been provided in **Format 19** of Tariff Filing Formats filed along with this Petition. The Hon'ble Commission is requested to approve the interest on security deposit as shown in the table above.

5.16 Non Tariff Income

5.16.1 The Regulatory provisions for Non Tariff Income have been stated below.

"29 Non-Tariff Income

a) All incomes being incidental to electricity business and derived by the Licensee from sources, including but not limited to profit derived from disposal of assets, rents, delayed payment surcharge, meter rent (if any), income from investments other than contingency reserves, miscellaneous receipts from the consumers and income to Licensed business from the Other Business of the Distribution Licensee shall constitute Non-Tariff Income of the Licensee.

b) Interest on security deposits, in excess of the rate specified by the Commission shall be considered as Non Tariff income of the Licensees.



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.

5.16.2 The following table shows the Non tariff Income for the first control period as projected by ED-Goa.

				Rs. Crores
Sr.No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Sale Proceeds of dead stock, waste paper etc	0.00	0.00	0.00
2	Receipt from Other Items	5.53	5.53	5.53
3	Theft/pilferage of energy	0.38	0.38	0.38
4	Misc. Receipts/income	0.74	0.74	0.74
5	Total Non-Tariff income	6.65	6.65	6.65

Table 53: Non Tariff Income for FY 2015-16 to FY 2017-18

5.17 Aggregate Revenue Requirement

5.17.1 The Net Revenue Requirement derived for the first control period based on the expenses discussed in the previous sections is shown in the table below.

				Rs. Crores
Sr.No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Cost of power purchase	1,149.85	1,233.75	1,318.87
2	Employee costs	232.45	236.72	241.26
3	R&M expenses	37.30	52.80	79.26
4	Administration and General expenses	16.27	16.58	16.88
5	Depreciation	63.19	80.70	119.56
6	Interest on Loan & Finance charges	88.20	107.02	155.79
7	Interest on Working Capital	4.27	5.38	6.64
8	Interest on Security Deposit	8.27	8.37	8.46
9	Return on Equity	57.45	73.36	108.69
10	Total Revenue Requirement	1,657.26	1,814.68	2,055.41
11	Less: Non Tariff Income	6.65	6.65	6.65
12	Net Revenue Requirement	1,650.60	1,808.02	2,048.75

5.18 Revenue from Existing Tariff

5.18.1 ED-Goa has computed category wise revenue for FY 2015-16 based on the existing tariff rates approved by the Hon'ble Commission in last tariff order dated 15th April 2014.



Sr. No.	Category of Consumer	Energy Sales (MUs)	Total Revenue (Rs Crore)	Avg Tariff (Rs/kWh)	
1	2	3	4	5	
Α	Low Tension Supply	1,288	331.61	2.58	
1(a)	Tariff LTD/Domestic and Non- Commercial	758	146.19	1.93	
1(b)	Tariff LTD/Low Income Group	7	0.38	0.53	
1(c)	Tariff LTD/Domestic Mixed	8	2.50	3.17	
2	Tariff-LTC/Commercial	277	104.41	3.76	
3 (a)	Tariff-LTP/Motive Power	157	54.56	3.48	
3 (b)	Tariff-LTP/ Ice Manufacturing	7	2.17	3.34	
3(a)	Tariff-LTP/Mixed (Hotel Industries)	3	1.33	4.46	
4	Tariff-LTAG/Agriculture	25	3.74	1.49	
5	Tariff-LTPL/Public Lighting	39	14.56	3.70	
6	Tariff-LT PWW/Public Water Works	6	1.77	2.76	
В	High Tension Supply	1,898	775.88	4.09	
7	Tariff HT-Mixed	133	59.89	4.50	
8(a)	Tariff HTI/Industrial	675	280.49	4.15	
8(b)	Tariff HTI/Hotel Industries	140	56.14	4.01	
8(c)	Tariff HTI/Ice Manufacturing	1	0.39	3.85	
9	H.T.Industrial (Ferro Mettallurgical/ Steel Melting/ Power Intensive)	577	228.26	3.96	
10	Tariff-HTAG/Agriculture	5	0.92	1.92	
11	EHTI/Industrial	175	75.46	4.32	
12	H.T. PW/Public Water Supply and Sewage	144	55.80	3.86	
13	H.T. MES/Defence Establishments	27	10.22	3.77	
14	H.T. Industrial (Steel Rolling)	-	-	-	
15	Tariff HT-Industries (IT High Tech).	21	8.32	3.96	
С	Temporary Supply	39	29.46	7.61	
16	Tariff-LT/Temporary	38	29.28	7.62	
17	Tariff-HT/Temporary	-	-	-	
18	Hoarding / Sign Board	0	0.18	7.24	
	Total	3,225	1,136.95	3.53	

Table 55: Revenue from sale of power for FY 2015-16

5.19 Revenue Gap for Entire Control Period

5.19.1 Based on the aggregate revenue requirement and revenue calculation, the revenue gap for the first control period has been computed. The following table shows the revenue gap for entire control period.



Table 56: Revenue Gap for FY 2015-16 to FY 2017-18

				Rs. Crores
Sr.No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Net Revenue Requirement	1,650.60	1,808.02	2,048.75
2	Revenue from Retail Sales at Existing Tariff including FPPCA Charges	1,136.95	1,180.52	1,226.16
3	Net Gap	513.65	627.50	822.59
4	Energy sales (MU)	3,224.70	3,348.27	3,477.72
5	Average Cost of Supply (Rs./kWh)	5.12	5.40	5.89

5.19.2 The revenue for FY 2016-17 to FY 2017-18 is computed based on the average billing rate for entire sales for FY 2015-16. The treatment for the gap of FY 2015-16 is provided in subsequent chapters.



CHAPTER 6. PROPOSAL TO MEET ARR AND CUMMULATIVE GAP FOR FY 2015-16

6.1 Cumulative Revenue Gap of FY 2015-16

- 6.1.1 It is submitted that that revenue gap of Rs. 284.22 Crores for FY 2013-14 is not being claimed in this petition as financial statements are yet to be prepared. The same would be claimed once financial statements are ready and separate petition would be filed before JERC or may be merged in subsequent tariff filing petitions.
- 6.1.2 The following table shows the cumulative revenue gap up to FY 2015-16 based on the ARR projected and revenue at existing tariff arrived in previous chapters.

		<u>Rs Crore</u>
Sr.	Item of expense	Projection
No.	nem er expense	FY 2015-16
1	Net ARR for FY 2015-16	1,650.60
2	Less: Revenue at Existing Tariff	1,136.95
3	Gap at Existing Tariff	513.65
4	Add: Gap of FY 2014-15	415.84
5	Total Revenue Gap to be met	929.49

Table 57: Cumulative Revenue Gap up to FY 2015-16

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- 6.1.3 As seen from the above table, the cumulative revenue gap after performance review of FY 2014-15 and ARR of FY 2015-16 comes to Rs. **929.49** Crores.
- 6.1.4 ED-Goa is into regulatory regime under JERC from FY 2011-12 onwards and so far has got tariff revision only twice i.e w.e.f. 1st June 2012 for **11.8%** and w.e.f. 1st April 2014 for **7.6%**.
- 6.1.5 Therefore there has been an uneven trend observed in tariffs that have increased in the past few years. This has lead to addition of huge accumulated losses for the Department.
- 6.1.6 ED-Goa states that recovery of entire gap of Rs. **929.49** Crores during FY 2015-16 will lead to tariff shock to consumers and therefore it is not viable to recover the entire gap in one year



- 6.1.7 ED-Goa therefore is proposing an average increase in revenue of around **19%** through revision in tariffs as proposed in the Tariff Schedule in the upcoming chapters. The additional revenue expected through this tariff hike is Rs. 219.61 Crores.
- 6.1.8 ED-Goa has also proposed for rationalization in the existing Tariff Structure. The modification and changes in consumer categories proposed by ED-Goa has been detailed out in the Chapter for Tariff Philosophy.
- 6.1.9 The following table shows the balance revenue gap to be met based on the proposed tariffs and proposed tariff structure as specified in the Chapter of Tariff Schedule.

		<u>Rs Crore</u>
Sr.	Item of expense	Projection
No.		FY 2015-16
1	Net ARR for FY 2015-16	1,650.60
2	Less: Revenue at Existing Tariff	1,136.95
3	Gap at Existing Tariff	513.65
4	Add: Gap of FY 2014-15	415.84
5	Total Revenue Gap to be met	929.49
6	Less: Additional Revenue from Revised	224.07
	Tariffs	
7	Less: Budgetary Support	-
8	Balance Revenue Gap	705.41

Table 58: Revenue Gap after Tariff Revision on Proposed Tariff Structure

6.1.10 As seen from the above table additional revenue derived from proposed tariffs and proposed tariff structure is Rs. **224.07** Crores which leads to the unmet revenue gap of Rs. **705.41** Crores.



6.2 Formation of Regulatory Asset

- 6.2.1 In general terms, Regulatory Asset includes previously-incurred losses that are in nature of deferred expenditure and that can be recovered from consumers in future allowed by Regulatory Authorities.
- 6.2.2 The Regulatory Provisions for creation of Regulatory asses is specified as below in the JERC Tariff Regulations, 2009.

"10. Regulatory Asset

Only in extraordinary circumstances, the Commission may allow creation of Regulatory Asset in case the Revenue Gap is very substantial and is on account of onetime factors beyond control of the generating company or the licensee and its full recovery in a single year will result in tariff shock for the consumers:

The Regulatory Assets so created along with carrying cost shall be liquidated in maximum 3 years period immediately following the year in which it is created."

6.2.3 The MYT Regulations, 2014 specifies the following Regulations for creation of Regulatory Asset.

"31. Treatment of Regulatory Assets

(a) Regulatory assets shall not be created against cost/loss incurred in normal course of business.

Provided that in such a case, financing arrangement or capital restructuring shall be deployed to cover the gap.

(b) The amortization schedule corresponding to the regulatory asset shall be prepared and put in effect along with creation of the regulatory asset.

(c) The carrying cost of the regulatory asset shall be in line with the State Bank Advance Rate (SBAR) for the tenure for which regulatory asset has been created.

(d) There shall not be a long gap in truing up of accounts of the Distribution Licensee so as to prevent the need for creation of the regulatory asset."



6.2.4 In addition to the above Regulations the National Tariff Policy (NTP) specifies as follows.

"8.2.2. The facility of a regulatory asset has been adopted by some Regulatory Commissions in the past to limit tariff impact in a particular year. This should be done only as exception, and subject to the following guidelines:

a. The circumstances should be clearly defined through regulations, and should only include natural causes or force majeure conditions. Under business as usual conditions, the opening balances of uncovered gap must be covered through transition financing arrangement or capital restructuring;

b. Carrying cost of Regulatory Asset should be allowed to the utilities;

c. Recovery of Regulatory Asset should be time-bound and within a period not exceeding three years at the most and preferably within control period;

d. The use of the facility of Regulatory Asset should not be repetitive.

e. In cases where regulatory asset is proposed to be adopted, it should be ensured that the return on equity should not become unreasonably low in any year so that the capability of the licensee to borrow is not adversely affected"

6.2.5 The APTEL Suo Motu order for OP No. 1 of 2011 dated 11th November 2011 states the following for creation of Regulatory Asset.

"65 (iv) In determination of ARR/tariff, the revenue gaps ought not to be left and Regulatory Asset should not be created as a matter of course except where it is justifiable, in accordance with the Tariff Policy and the Regulations. The recovery of the Regulatory Asset should be time bound and within a period not exceeding three years at the most and preferably within Control Period. Carrying cost of the Regulatory Asset should be allowed to the utilities in the ARR of the year in which the Regulatory Assets are created to avoid problem of cash flow to the distribution licensee"

6.2.6 ED-Goa therefore proposes the Hon'ble Commission to approve Regulatory asset to the tune of Rs. **705.41** Crores. This revenue gap may be proposed to be recovered in the next 2-3 years based on the mechanism that may be decided by the Hon'ble Commission.



CHAPTER 7. TARIFF PHILOSOPHY

This chapter discusses the approach and philosophy for rationalisation of categories, increases in tariffs and schedule of miscellaneous and general charges.

7.1 Present Tariff Structure

- a) The petitioner submits that the tariffs of the petitioner in the license area are lower as compared to other licensees in the country with similar area and load profile;
- b) The distribution losses are also lower and comparable with better performing utilities which again help in keeping tariffs lower;
- c) The present tariffs are insufficient to match the cost of services;
- d) Presently there are number of categories which have almost similar tariffs with difference in only tariff applicability clauses. Some of the slabs in the categories or basis of fixed charge need to be in synch with practices in other states.
- e) The tariff structure between fixed/ demand charge and energy charge is lopsided and the recovery from fixed/ demand charges is less than the fixed payments obligation.
- f) In some of the categories, the applicability clauses needed more clarity for better implementation.
- g) The limit for release of load at LT & HT levels was high when compared to other utilities resulting in higher technical losses.
- h) The Hon'ble Commission had also in earlier Tariff Order suggested for rationalisation of tariff categories and general terms and conditions.

7.2 Tariff Philosophy

- 7.2.1 Sanctioned Load Limits for LT & HT
 - a) The sanctioned load limit for release of connection at LT level is reduced from 90 kW or 100 kVA or 120 HP to 70 kW or 80 kVA or 95 HP and below.



b) The contracted demand limit for release of connection at HT level is modified from 90 kW or 100 kVA or 120 HP to 70 kW or 80 kVA or 95 HP and above.

The load limits are modified considering the pattern in other states which specify limits in the range of 50 or 70 kW for LT level. For eg. In Karnataka, the sanctioned load is 50KW/59KVA/67HP for LT consumers and above 50KW for HT consumers. ED-Goa also submits the provision of Supply Code Regulations 2010 suggests different types of meter installations based on load limits. Hence with higher load limit, installation of normal/ specified meters may be difficult. ED-Goa submits that modification of such load limits will also assist is reducing technical losses.

7.2.2 Tariff Rationalisation

The consumer categories are rationalised in line with neighbouring and better performing state utilities mainly for Domestic, Commercial and Industry in LT & HT segment. ED-Goa has merged LT Motive Power, LT Ice Mfg, LT Public Water Works into single category i.e. LT Industry. Similarly, HT-Mixed, HT-Industrial, HT-Hotel Industries, HT-Ice Manufacturing, EHTI-Industrial, HT Public Water Works and HT-IT High Tech Industries are merged into 1 single category i.e.HT Industrial. New categories such as HT-Domestic and HT-Commercial are proposed considering the need as per developments in the State. HT-Domestic category has been introduced for high end domestic consumers in order to subsidize other consumers. LT Temporary is further categorised into Domestic/ Religious and Commercial purposes. ED-Goa believes that such rationalisation will be simple to understand for all stakeholders.

ED-Goa has tried to rationalise the slabs in LT & HT categories. The range of consumption slabs is minimised to cover benefit low end consumption categories such as LT Domestic, LT Commercial in the slab of 0 – 100 units. The no of slabs have been rationalised to 2 or 3 slabs in LT/ HT except for LT Domestic which has 4 slabs. ED-Goa has also propose to introduce Single point supply/ Distribution Franchisee arrangement based on consumer applications from Township Areas, Residential Complexes including Group Housing Societies, IT Park, Industrial Estate, Commercial Complexes, Malls etc.

7.2.3 Changes in Applicability Clauses

ED-Goa 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.



7.2.4 Time of Day (TOD) Tariff

Time of Day (TOD) is proposed to be made "Compulsory" for all HT/EHT Consumers and "Optional" for LT Commercial & LT Industry (currently optional for HT/ EHT consumers). Considering the load pattern observed in Peak Load Restrictions (PLR) in the evening hours, ED-Goa has extended the evening peak hours range from 6 pm to 11 pm (earlier 6 pm to 10 pm). ED-Goa believes that implementation of TOD will benefit ED-Goa in terms of better load management.

7.2.5 Fixed Charges Payment vs Fixed Charges Recovery

ED-Goa submits that out of the total ARR expenses, certain expenditure are fixed in nature and need to be incurred irrespective of any distribution / retail business undertaken by it. For eg. Similar to the case of generator where power plant is shut down, the generating companies need to incur employee expenses, minor R&M to other assets, depreciation obligation for loan repayment, interest on loan payments etc. The petitioner also has similar type of fixed expenses and ideally these fixed cost expenses should be recovered by way of MMC & / combination of Fixed & Demand Charges.

ED-Goa has carried out the detailed exercise wherein the fixed cost obligations are mapped out and which it intends that Hon'ble Commission should align the fixed charges accordingly.

The table below provides the computation of fixed charges payment vs fixed charges recovery at the existing tariff for FY 2015-16 at existing tariff structure.



Fixed Cost Recovery Computation for ED-Goa for FY 2015-16 (Rs.Crs)				
Sr.	Particulars	ARR	Fixed Cost	Variable Cost
1	Cost of Power Purchase	996.18	298.86	697.33
2	PGCIL & Other Transmission Charges	153.67	46.10	107.57
З	Employee costs	232.45	209.21	23.25
4	R&M expenses	37.30	35.44	1.87
5	Administration and General expenses	16.27	12.21	4.07
6	Depreciation	63.19	60.03	3.16
7	Interest on Loan & Finance charges	88.20	83.79	4.41
8	Interest on Working Capital	4.27	4.06	0.21
9	Interest on Security Deposit	8.27	0.83	7.44
10	Return on NFA /Equity	57.45	54.58	2.87
11	Total revenue requirement	1,657.26	805.09	852.17
12	Less: Non tariff income	6.65	4.99	1.66
13	Net revenue requirement	1,650.60	800.10	850.51
14	Less: Revenue from Existing Tariff	1,136.95	168.61	968.34
15	Gap / (Surplus)	513.65	631.48	(117.83)

Table 59: Fixed Co	st Obligation vs	Fixed Charges	Recovery FY 2015-16
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As can be seen there is shortfall / deficit in the recovery of fixed charges and hence Hon'ble Commission needs to determine in such a way that fixed charges payment are recovered through fixed/ demand charges and combination of MMC.

7.2.6 Monthly Minimum Charges

ED-Goa submits that Goa has typical features like Coastal state, different terrain areas, high tourism, real estate opportunities etc. Many of the investors in real estate have flats/ premises/ villas/ bungalows in Goa which they visit only during vacation periods.

It is found that around 30-40% of such premises in town areas are locked for almost full year due to which envisaged recovery of infrastructure/ fixed charge is very minimal. Due to this burden of fixed charges recovery gets passed onto other consumers.

Similar is the case with LT Domestic Mixed and LT Commercial where actual usage is very less/ negligible due to which intended minimum recovery is small meagre fixed amount.

ED-Goa also submits that there are issues for faulty meter reading, no –meter reading due to various reasons (inaccessibility) etc.

There is also a shortfall in recovery of fixed/ demand charges as against fixed charges payment. The same is explained in above section.

Hence Monthly Minimum charges (MMC) is proposed for LT Domestic, LT Domestic Mixed and LT Commercial categories which would address the issues of locked premises, faulty meter reading etc. ED-Goa submits that there is an urgent need for the Hon'ble Commission to have MMC charges for these categories.

Monthly Minimum Charge (MMC) is intended to recover fixed cost component for the investment made on infrastructure and that does not have any correlation with the energy consumption charges.

The licensee is unduly at loss if the charges so decided are less than the actual energy consumption of the categories and if the fixed infrastructure costs are not adequately recovered.

MMC is only implemented in case the consumer is unable to reach the MMC level at the prevailing tariff.

Such a precedent is followed in other states like Uttar Pradesh, Haryana, Bihar, etc.

7.2.7 Revision in Tariffs

The petitioner submits that in last 4 years there has been tariff revision only twice and that too it was minimal around 8-10% p.a. as equal / major contribution was by way of Budgetary Support from Government of Goa.

The power purchase costs have been increasing due to use of imported coal by central generating stations in lieu domestic coal shortages. There have been supplementary power purchase bills raised by M/s. NTPC and the transmission charges for M/s. Powergrid have also been on higher side as compared to approved figures in Tariff order. The O&M expenditure also increases with inflation and increase in capital expenditure.



The petitioner would also like to refer to the APTEL Judgement in OP No.1 of 2011 dated 11th November 2011 wherein the Hon'ble Tribunal has ruled as under:

65 (iv) In determination of ARR/tariff, the revenue gaps ought not to be left and Regulatory Asset should not be created as a matter of course except where it is justifiable, in accordance with the Tariff Policy and the Regulations. The recovery of the Regulatory Asset should be time bound and within a period not exceeding three years at the most and preferably within Control Period. Carrying cost of the Regulatory Asset should be allowed to the utilities in the ARR of the year in which the Regulatory Assets are created to avoid problem of cash flow to the distribution licensee.

The Petitioner also submits that tariffs (fixed/ demand and energy charges) are proposed to compensate for increase in cost of power purchase and network cost. The petitioner has also attempted to align the fixed charge and variable charge to bring the cross subsidy of tariff category around cost of supply and to maintain the +/- 20% band of cost of supply & tariff as per guidelines of National Tariff Policy 2006.

7.2.8 Schedule of Miscellaneous Charges

ED-Goa submits that miscellaneous charges are not revised since 2002 and in last 12 years the average inflation has been around 6-8% per annum. To offset the material and labour price cost increases, there is need to revise these charges substantially. The miscellaneous charges for ED-Goa are much lower when compared to other utilities. Meter Rental, Re-Connection charges, Testing Fees, Service Connection charges have been increased to take care of current costs. The brief comparison for the same is also provided in the Schedule of Miscellaneous charges section.

Further the General Terms and Conditions are also simplified to provide relevant information regarding LT and HT billing.



CHAPTER 8. PROPOSED TARIFF SCHEDULE FOR FY 2015-16

8.1 General Conditions and Definitions

 These tariffs are proposed to be made applicable from 1st April 2015 and shall be subject to revision by the Regulatory Commission from time to time.

Tariffs are subject to revision and/or surcharge that may be levied by ED-Goa from time to time as per the directives of the Commission.

- 2) 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.
- 3) Unless otherwise agreed to, these tariffs for power supply are applicable for supply at one point only.
- 4) Unless specifically stated to the contrary the figures of energy charges relate to rupee per unit (kWh) charge for energy consumed for a month.
- 5) 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.

Provided that,

(a) If a portion of the domestic premises limited to only one room is used for running small household business having connection under domestic category, such connection shall be billed under domestic mixed category provided that the total monthly consumption of the consumer (including consumption for above mentioned small household business) does not exceed 150 kWh.

(b) If either more than one room or only one room having monthly consumption exceeding 150 kWh for consecutive three months is detected in the domestic premises being used for mixed purposes having domestic connection, such connection shall further be billed under commercial category until a separate connection of appropriate tariff is taken for that portion used for non-domestic purpose.



- 6) 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.
- 7) 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.
- 8) 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.
- 9) 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 80 kVA and above.
- 10) 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

11) 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.

8.2 Miscellaneous and General Charges

8.2.1 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 <u>http://www.electricity.goa.gov.in/</u>

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.

8.2.2 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.electricity.goa.gov.in/

8.2.3 Power Factor Calculation

(Applicable for all HT categories and LT categories wherever applicable) 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 -



	Total (kWH)
Average Power Factor =	

Total (kVAH)

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

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

8.2.4 Power Factor Penalty

(Applicable for all HT categories and LT categories wherever applicable) 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 % of monthly bill including energy charges, FPPCA, and fixed/ Demand Charges but excluding Taxes and duties, as shown in table below:

Sr.No.	Range of Power Factor	Power Factor Level	Penalty
1	0.895 to 0.900	0.90	0%
2	0.885 to 0.894	0.89	2%
3	0.875 to 0.884	0.88	3%
4	0.865 to 0.874	0.87	4%
5	0.855 to 0.864	0.86	5%
6	0.845 to 0.854	0.85	6%
7	0.835 to 0.844	0.84	7%
8	0.825 to 0.834	0.83	8%
9	0.815 to 0.824	0.82	9%
10	0.805 to 0.814	0.81	10%

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.



8.2.5 Power Factor Incentive

(Applicable for all HT categories and LT categories wherever applicable)

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 % of monthly bill including energy charges, FPPCA, and fixed/ Demand Charges but excluding Taxes and duties, as shown in table below:

Sr.No.	Range of Power Factor	Power Factor Level	Incentive
1	0.951 to 0.954	0.95	0%
2	0.955 to 0.964	0.96	2%
3	0.965 to 0.974	0.97	3%
4	0.975 to 0.984	0.98	4%
5	0.985 to 0.994	0.99	5%
6	0.995 to 1.000	1.00	6%

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.

8.2.6 Payment Rebates:

<u>Advance Payment Rebate:</u> 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.

<u>Prompt Payment Rebate</u>: 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.



8.2.7 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%) per month or part thereof on the total electricity bill (including Taxes and Duties) 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. For the purpose of computation of time limit for payment of bills, "the day of presentation of bill" or "the date of the bill or "the date of issuance of the bill", etc. as the case may be, will not be excluded.

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.

- 8.2.8 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 GED 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.



8.3 Tariff Schedule – LT Consumers

Low Tension Category - Applicable to Power Supply of Voltages at 230V and 400V Voltages when the Sanctioned Load is below 80 KVA/ 70 KW / 95 HP and power is supplied at single/ three phase

8.3.1 LT I (A): LTD/Domestic

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to private house, bungalows,	This schedule shall apply to private residential houses, government
charitable or educational institutions approved by Goa	residential quarters, charitable institutions or educational institutions aided
Board/ Central Board, colleges approved by Goa University	by State / Central Board, colleges aided by Goa University and religious
and religious institutions etc. for consumption of energy on	institutions etc for consumption of energy using normal domestic appliances.
lights, fans, radios, domestic heating and other household	
appliances with Sanctioned Load less than 100 KVA or 90 KW	
or 120 HP as the case may be.	

I. Tariff

	Existing Tariff FY 2014-15		Proposed Tariff FY 2015-16		
Consumption Slab	Fixed Charges (Rs/Connection / month)	Energy Charges (Rs/kWh)	Consumption Slab	Fixed Charges (Rs/Connection/ month)	Energy Charges (Rs/kWh)
(a) First 60 Unit	10	1.20	a) 0 – 100 units		1.40
(b) 61 to 250 units	15	1.70	b) 101 – 200 units	Single Phase – Rs. 20/Month	2.00
(c) 251 to 500 units	25	2.75	c) 201 – 400 units	Three Phase – Rs. 45/Month	3.20
(d) Above 500 units	35	3.20	d) Above 400 units (balance units)		3.70



Note:

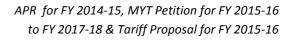
- a. <u>The applicable monthly minimum charges for Single Phase connection would be Rs.100 per month and monthly minimum charges for Three Phase connection</u> would be Rs.300 per month.
- b. <u>The premises or flats which are closed or locked for continuous period of more than three months and having sanctioned / connected load more than 10 kW, the</u> monthly minimum charges would be Rs.1000/-.

II. Rationale

- a. Applicability clause wrt to "Government approved" educational institutions is modified to "Government aided". Private educational Institutions will now get shifted to Commercial category. The intention is to provide extend benefit of lower tariffs to Government aided institutions.
- b. Typically the energy charges only should be linked to slab wise consumption and not fixed charges. Hence the fixed charges are proposed to be levied on basis of "Single/ Three phase connection" as against "slabs wise fixed charges". The same is in line with practice in other states.
- c. The consumption slabs are also modified in line with practice in other states. The range in the present slabs is too wide and hence aligned.
- d. Monthly Minimum Charges are proposed for recovery of minimum tariff / bill amount so as to keep ED-Goa afloat of the infrastructure / fixed cost obligation as explained in tariff philosophy.

8.3.2 LT I (B): LTLIG/Low Income Group

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to consumers of low Income	This schedule shall apply to consumers of low Income Group who have a
Group with a Sanctioned Load 2 x 40 watts only	sanctioned load of up to 0.1 kW (primarily 2 points with 2 x 40 watts) and who
	consume up to 30 units per month only.





Description	Rs./ Connection/month	
	Existing Charges FY 2014-15	Proposed Charges FY 2015-16
Consumption Up to 30 Units p.m.	27.50	30.00

Note: 1) 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.

II. Rationale

- a. In line with provisions of National Tariff Policy and National Electricity Policy, the consumption is capped at 30 units per month; failing which billing will be done at LT Domestic tariffs based on monthly assessment.
- b. The same is line with practice in other states.

8.3.3 LT I (C): LTDM/Domestic Mixed

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to Houses with the rent back	This schedule shall apply to Houses with rent back facilities, Government
facilities, clubs, hospitals, staff quarters, rest/guest	hospitals, residential premises used by professionals (like Lawyers, Doctors {only
houses, street lighting in the colony of a factory which	those using OPD/consultancy}, Professional Engineers, Chartered Accountants,
is situated separately from the main factory and when	etc.) in furtherance of their professional activity in their residences for
distribution lines, service lines etc. are permitted to be	consumption of energy for mixed purposes.
owned and maintained by HT consumers with	
Sanctioned Load less than 100 KVA or 90 KW or 120 HP	
as the case may be.	



Consumption	Fixed Charges (Rs./connection/ month)		Energy Charges (Rs/kWh)	
	ExistingProposed ChargesChargesFY 2015-16FY 2014-15		Existing Charges FY 2014-15	Proposed Charges FY 2015-16
First 400 Units	30	Single Phase – Rs.45 /Month	2.90	3.35
Above 400 Units	40	Three Phase – Rs.65 /Month	4.00	4.60

Note:

a. <u>The applicable monthly minimum charges for Single Phase connection would be Rs.350 per month and monthly minimum charges for Three Phase connection</u> would be Rs.500 per month.

II. Rationale

- a. The street lighting in colony part has been shifted to LTPL/Public Lighting. The professionals operating from residence (which were earlier being charged at domestic tariff) are shifted into this category, such as Doctors using OPD.
- b. Typically the energy charges only should be linked to slab wise consumption and not fixed charges. Hence the fixed charges are proposed to be levied on basis of "Single/ Three phase connection" as against "slabs wise fixed charges". The same is in line with practice in other states.
- c. Monthly Minimum Charges are proposed for recovery of minimum tariff / bill amount so as to keep ED-Goa afloat of the infrastructure / fixed cost obligation as explained in tariff philosophy.



8.3.4 LT II: LTC/Commercial

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to shops, offices, railway stations, race course, computer training schools, photo studio, photo copier, colour laboratories, private guest house, messes, bus stand of KTC, private agriculture nurseries, dry cleaners, film studio, X ray installations, cinema theatres, AIR and TV station and studios, telephone exchanges, petrol pumps, battery charging units, tyre vulcanizing centers, ice parlors, bars and cold drink houses, commercial complexes, petrol, diesel and oil storage plants, for lights, fans, TV, radio, heating and other appliances with Sanctioned Load less than 100 KVA or 90 KW or 120 HP as the case may be.	 This category would apply to a LT category not specifically included elsewhere and also to a LT category although specifically included elsewhere, in a category commanding lower tariff, is misused and used for commercial purpose. It would include non-residential, non-industrial premises and/ or commercial premises where electricity is used for commercial purposes. It would include the following categories but not limited to: 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 educational institutions, 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,



Existing Applicability Clause	Proposed Applicability Clause
	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;
	• Tissue Culture, Mushroom activities, Aquaculture, Floriculture, Fisheries,
	Sericulture etc
	Research & Development units situated outside Industrial premises;
	Airports, Railways, Railway Station, Bus stand of KTC etc;

	Existing Tariff FY2014-15		Proposed Tariff FY2015-16		
Consumption Slab	Fixed Charges (Rs/Connection/ month)	Energy Charges (Rs/kWh)	Consumption Slab	Fixed Charges	Energy Charges (Rs/kWh)
a) First 100 Units	30	3.15	a) 0 – 200 units	0-20 kW - Rs. 50/Conn/ Month	4.00
b) 101 – 1000 units	40	4.00	b) 201 – 400 units	Above 20kW-70 kW Rs.50/Conn/month +	4.60
c) Above 1000 units	60	4.50	c) Above 400 units	additional Rs.55/kW for every kW increase above 20 kW	5.00



Note:

a. <u>The applicable monthly minimum charges for consumers in the slab 0 to 20 kW would be Rs.400 per month and consumers in the slab above 20 kW would be Rs.2000 per month.</u>

II. Rationale

- a. Considering the practice in other states, the categorisation of commercial is segregated on the basis of connected load.
 - a. 0-20 kW Fixed charges based on Rs. per Connection per month (same as earlier)
 - b. >20-70 kW Fixed charges based on Connected Load (Rs.per kW per month as against Rs.per connection per month)
- b. Typically the energy charges only should be linked to slab wise consumption and not fixed charges. Hence the fixed charges for consumers in the slab 0 to 20 kW are proposed as Rs.per Connection per month. Further the fixed charges are proposed to be levied on basis of "Connected Load" as against "slabs wise fixed charges" for load above 20 kW. The same is in line with practice in other states.
- c. The consumption slabs range was very wide and hence aligned with the practice in other states with an objective to charge lower tariffs to lower slabs as compared to high end users.
- d. Monthly Minimum Charges are proposed for recovery of minimum tariff / bill amount so as to keep ED-Goa afloat of the infrastructure / fixed cost obligation as explained in tariff philosophy.
- e. Residual clause added This category would apply to a LT category not specifically included elsewhere and also to a LT category although specifically included elsewhere, in a category commanding lower tariff, is misused and used for commercial purpose.



8.3.5 LT III: LTI/Industry

Existing Applicability Clause	Proposed Applicability Clause
LTP/Motive Power: This schedule shall apply to	This tariff shall apply to consumers as industrial units engaged in industrial
consumers such as industrial units, workshops, flour	activities, manufacturing process etc. It would include the following categories
mills, wet grinding, rice mills, milk dairies, ice cream	but not limited to:
manufacturing units, dairy testing process, garment	 Flour Mills, wet grinding, Dal Mills, Rice Mills, Poha Mills, Masala Mills, Saw
manufacturing, tyre retreading units, ice	Mills, Power looms including other allied activities like Warping, Doubling,
manufacturing plants, bakery, motive power load,	Twisting, etc.
industrial units engaged in manufacturing process or	 Ice Factory, Ice Cream Manufacturing units/ Plants, Diary Testing Process,
project activities with Sanctioned Load less than 100	Milk Diaries, Milk Processing / Chilling Plants (Dairy) etc;
KVA or 90 KW or 120 HP as the case may be.	 Engineering workshops, Engineering Goods Manufacturing units, Printing
	Press, Transformer repairing Workshops, Tyre retreading units, Motive Power
LTP/Ice Manufacturing: This schedule shall apply to	Load etc;
industrial units engaged in ice manufacturing where	 Mining, Quarry & Stone Crushing units etc;
the total sanctioned load of the installation is less than	 Garment Manufacturing units,
100 kVA or 90 kW or 120 HP as the case may be.	 LPG/ CNG Bottling plants etc;
	 Sewage Water Treatment Plant/ Common Effluent Treatment Plant owned,
LT PWW/Public Water Works: This schedule shall	operated and managed by Industrial Association and situated within industrial
apply to public water supply and sewage pumping	area.
stations and treatment plants where Sanctioned Load	 Pumping of water for public water supply, Sewage Treatment Plants, activities
is less than 100 KVA or 90 KW or 120 HP as the case	related with public water Supply Schemes and Sewage Pumping Stations.
may be.	 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



LTP Motive Power – Existing Tariff FY 2014-15 (for reference)

Description	Fixed Charges (Rs/HP/month)	Energy Charges (Paise/kWh)
(a) Upto 50 HP	25.00	260
(b) Above 50 HP	25.00	320`

Ice Manufacturing – Existing Tariff FY 2014-15 (for reference)

Fixed Charges	Energy Charges
(Rs/HP/month)	(Paisa/kWh)
25.00	320

Public Water Works – Existing Tariff FY 2014-15 (for reference)

Fixed Charges	Energy Charges	
Rs/HP/month	(Paise/kWh)	
25.00	250	



Existing Charges FY 2014-15		Proposed Charges FY 2015-16			
Existing Slabs	Fixed Charges (Rs./HP/ month)	Energy Charges (Rs/kWh)	s Proposed Slabs (Rs./HP/		Energy Charges (Rs/kWh)
Upto 50 HP/kW	25	2.60	0 to 500 Units	30	3.20
Above 50 HP/kW	25	3.20	Above 500 Units	30	3.70

II. Rationale

- a. Existing LTP Motive Power, LT Ice Manufacturing categories & LT Public Water Works are merged into single category i.e. LT Industry as their tariffs are almost similar.
- b. Applicability clause is more detailed out with different types of activities for better clarity and implementation.
- c. Typically the energy charges only should be linked to slab wise consumption and not fixed charges. Hence the two slabs for fixed charges are merged and only single fixed charge would be applicable for the consumer in this category.
- d. However the energy charges are linked to slab wise consumption and considering practice in other states, two consumption slabs are created as 0 to 500 units and above 500 units.

8.3.6 LT IV: LTP Mixed (Hotel Industries)

Existing Applicability Clause	Proposed Applicability Clause
LTP/Mixed (Hotel Industries): This schedule shall apply to Hotels,	 This schedule shall apply to Hotels/ restaurants with lodging and
restaurants, lodging and boarding where the total Sanctioned Load	boarding facilities.
is less than 100 KVA or 90 KW or 120 HP as the case may be.	



Fixed Charges (Rs/kW/Month)		Energy Charges (Rs/kWh)	
Existing Charges	Proposed	Existing	Proposed
FY 2014-15	FY 2014-15 Charges		Charges
	FY 2015-16	FY 2014-15	FY 2015-16
25	30	4.00	4.60

Note: Hotel Industry consumers intending to avail the facility of this tariff should produce the certificate from Tourism Department stating that the intending applicant is registered under Goa Registration of Tourist Trade Act, 1982 and in Hotel business on 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.

8.3.7 LT V: LTAG/Agriculture

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to irrigation pumping and	This schedule shall apply to establishments for Irrigation pumping and Agricultural
agricultural purposes, poultry, piggery, pisciculture etc	purposes. It would include the following categories but not limited to:
for consumption of energy on pump motors, lights,	 Poultry, Piggery etc
fans, heating and other appliances with sanctioned	 Horticulture, Green Houses, Plantations etc;
load less than 100 KVA or 90 KW or 120 HP as the case	 Cane crusher and/or fodder cutter for self-use for agricultural processing
may be.	purpose, but shall not be applicable for operating a flour mill, oil mill or
	expeller in the same premises, either operated by a separate motor or change
	of belt drive.



Fixed Charges (Rs/HP/Month)		Energy Charg	ges (Rs/kWh)
Existing	Proposed	Existing	Proposed
Charges Charges		Charges	Charges
FY 2014-15 FY 2015-16		FY 2014-15	FY 2015-16
10	12	1.20	1.40

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.

8.3.8 LT VI: LTPL/Public Lighting

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to public lighting systems	This schedule shall apply to public lighting systems. It would include the following
including signal systems, road and parking lighting	categories but not limited to:
belonging to local authorities such as Municipality/	 Market Places Road, Pathways and Parking Lighting belonging to local authorities
Panchayat etc. with sanctioned load less than 100	such as Municipality/ Panchayats/ Government;
kVA or 90 kW or 120 HP as the case may be. This	 Lighting in Public Garden;
shall also be applicable to public lighting of	 Traffic Signals and Traffic Islands;
Government/ Semi-Government Establishments but	 State Transport Bus Shelters;
shall not be applicable in case of private	 Public Sanitary Conveniences; and
establishment.	 Public Water Fountain and such other Public Places open for general public free



Existing Applicability Clause	Proposed Applicability Clause		
	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.		

Fixed Charges (Rs/kW/Month)		Energy Charges (Rs/kWh)	
Existing Proposed		Existing	Proposed
Charges Charges		Charges	Charges
FY 2014-15 FY 2015-16		FY 2014-15	FY 2015-16
35			4.00

II. Rationale

a. In applicability, Market Places Road, Pathways and Parking Lighting belonging to local authorities such as Municipality/ Panchayats/ Government are included here for better clarity and implementation.

8.3.9 LT VII: LTH/ Hoarding & Sign Boards

I. Applicability

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.



Fixed Charges		Energy Charges (Rs/kWh)	
Existing Charges Proposed Charges		Existing Charges	Proposed Charges
FY 2014-15	FY 2014-15 FY 2015-16		FY 2015-16
Rs.50 per kVA	Rs. 60 per KW		
per Month of	per Month of	6.00	7.00
part thereof	part thereof		

8.3.10 LT VIII: LTTS/ Temporary Supply

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to lights, fans and small	a) LT Temporary Domestic: This schedule shall apply to usage of electricity for all
appliances for all purposes at low voltage for	religious purposes or public functions for non-commercial purposes. It shall also
sanctioned load less than 100 kVA or 90 kW or 120	apply for construction of own house by an individual with single tenement
HP as the case may be.	b) 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:
	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



Categories	Energy Charges		Minimum / Fixed Charges (Rs./kW/day)	
	(Rs/ Kwh)			
	Existing	Proposed	Existing Charges	Proposed Charges
	Charges	Charges	FY 2014-15	FY 2015-16
	FY 2014-15	FY 2015-16		
Temporary Domestic	7.50	7.00	Rs 50 per kW per month or part thereof subject to a minimum of Rs.300/- per connection per month or part thereof.	Rs.60 per kW per month or part thereof subject to a minimum of Rs.300/- per connection per month or part thereof
Temporary Commercial	7.50	10.00	Rs 50 per kW per month or part thereof subject to a minimum of Rs.300/- per connection per month or part thereof.	Rs.100 per kVA per month or part thereof subject to a minimum of Rs.500/- per connection per month or part thereof

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.



I. Rationale

- a. Presently all the temporary activities are booked under a common LT Temporary category. A separate LT Domestic category has been proposed to cover all Religious/public function for better clarity and for use for construction of individual house. The tariff for these activities has been proposed lower than the existing tariff, so as to benefit the consumers availing the temporary connection for minor, religious/ public functions, non-commercial activities.
- b. Construction of structure / Infrastructure has been shifted from LT Commercial Category to LT Temporary Commercial as these are long term temporary activities.



8.4 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 80 KVA/ 70 KW / 95 HP and power is supplied at three phase

8.4.1 HT I: HTI / Industrial

Existing Applicability Clause	Proposed Applicability Clause
HT-Mixed: This schedule shall apply to bulk supply of power at 11 KV and above	This schedule shall apply to consumers taking electricity
for a Contract Demand 100 kVA and above such as railway, educational	supply for Industrial purpose. It shall also include the
institutions, non-industrial establishment etc. having mixed load with	following categories:
predominantly lighting or non-industrial load of more than 50% of connected	 Bulk Supply of power at 11 KV, 33 kV /110 KV and
load.	above for industries, factories and other industrial
HT Industrial: This schedule shall apply to supply of power at 11 KV and above	purposes.
for a Contract Demand of 100 KVA and above for industries, factories and other	 Bulk supply of power at 11 KV and above for
industrial purpose as may be decided by the Chief Electrical Engineer.	educational institutions owned or aided by
HT Hotel Industries: This schedule shall apply to Hotels, restaurants, lodging and	Government, non-industrial establishment,
boarding where the total Contract Demand of such installation is 100 kVA &	 Industrial units engaged in Ice Manufacturing Units;
above.	 Hotels with lodging and boarding facilities etc
HT Ice Manufacturing: This schedule shall apply to industrial units engaged in ice	 Use of electricity / power supply by an
manufacturing where supply of power is made at 11 kV and above for a Contract	establishment such as IT Industries, IT Parks, IT Units
Demand of 100 kVA and above.	 Pumping of water, public water supply, public water
EHTI-Industrial: This schedule shall apply to bulk supply of power at 110 KV and	treatment plant, activities related with Supply
above for industries, factories and other industrial purpose as may be decided by	Schemes and Sewage Treatment Plants, Sewage
the Chief Electrical Engineer.	Pumping Stations etc.



Existing Applicability Clause	Proposed Applicability Clause
HT-Industries (IT High Tech): This schedule shall apply to bulk supply of power at	
11 kV and above for a Contract Demand of 100 kVA and above for industries such	
as Information Technology Industries and information Technology Parks, etc	
HT-Public water works: This schedule shall apply to supply of power at 11 KV and	
above for a Contract Demand of 100 KVA and above for public water supply and	
sewage pumping stations and public water treatment plant.	

I. Tariff

Consumer category	Existing Tariff FY2014-15		
	Fixed Charges (Rs./KVA/ month)	Energy Charges (Rs/kWh)	
HT Mixed	200	3.15	
HT Industrial	200	3.30	
HT Hotel Industries	200	3.30	
HT Ice Mfg	200	3.00	
EHT Industrial	230	3.50	
HT IT Tech	200	3.20	
HT Public water works	200	3.35	



Consumer category	Fixed Charges			^y Charges
/ Voltage Level	(Rs./KVA/ month)			/kWh)
	Existing	Proposed	Existing	Proposed
	Charges	Charges	Charges	Charges
11 / 33 kV	200	250	3.15	4.00
110 kV	230	250	3.50	3.90

II. Rationale

- a. It was observed that tariffs for many of the HT categories were almost similar with minor difference in fixed / energy charges.
- b. Considering practice adopted by many states which have one or two Industry categories, ED-Goa has proposed merger for HT-Mixed, HT-Industrial, HT-Hotel Industries, HT-Ice Manufacturing, EHTI-Industrial, HT-IT High Tech Industries & HT-Public Water works into 1 single category i.e.HT Industry.
- c. Activities related to commercial purposes (including railways) are covered under HT-Commercial (newly proposed category)
- d. The tariff structure is proposed based on voltage level at which the consumer is connected with principle of higher the voltage, lower the tariffs.

8.4.2 HT II: MES/Defence Establishments:

Existing Applicability Clause	Proposed Applicability Clause
H.T. MES/Defence Establishments: This schedule shall apply to	H.T. MES/Defence Establishments: This schedule shall apply to
supply of power at 11 KV and above for a Contract Demand of 100	supply of power for defence installation establishments, having
KVA and above for defence installation establishments, having	mixed load with predominantly lighting or non-industrial load of
mixed load with predominantly lighting or non-industrial load of	more than 50% of connected load.
more than 50% of connected load.	



Consumer category	Existing Tariff FY2014-15		Proposed Charg	ges FY 2015-16
	Fixed ChargesEnergy Charges(Rs./KVA/(Rs/kWh)month)(Rs/kWh)		Fixed Charges (Rs./KVA/ month)	Energy Charges (Rs/kWh)
MES/ Defense	150	3.30	175	3.80

8.4.3 HT III: HTC/ Commercial

Existing Applicability Clause	Proposed Applicability Clause
Presently covered under HT Mixed.	This tariff is applicable to any HT supply activity not specifically covered in any
(HT-Mixed: This schedule shall apply to bulk supply of	other HT consumer categories or although covered in another activity, the use is
power at 11 KV and above for a Contract Demand	made for a commercial category. It would include electricity used in all non-
100kVA and above such as railway, educational	residential, non-industrial premises and/or commercial premises for commercial
institutions, non-industrial establishment etc. having	consumption meant for operating various appliances. It would include the
mixed load with predominantly lighting or non-	following categories but not limited to:
industrial load of more than 50% of connected load.)	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 /



Existing Applicability Clause	Proposed Applicability Clause
	Restaurants (without boarding facilities), Ice-cream parlours, Bakery, Coffee
	Shops, private educational institutions, 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;
	• Tissue Culture, Mushroom activities, Aquaculture, Floriculture, Fisheries,
	Sericulture etc.
	Research & Development units situated outside Industrial premises;
	Airports, Railways, Railways Station, Bus stand of KTC etc;



Particulars	Fixed Charges		Energy Charges	
	(Rs./KVA/ month)		(Rs/kWh)	
	Existing Proposed		Existing	Proposed
	Charges	Charges	Charges	Charges
For All Units	200	250	3.15	4.50

II. Rationale

- a. It was observed that commercial activities were charged under mixed category. Considering the practice in other states, new category is proposed for HT Commercial.
- b. Residual clause added 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.

8.4.4 HT IV: HTFS/ Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive/ Steel Rolling)

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to supply of power having a Contract	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	Demand from 80 KVA up to 1000 KVA at 11 KV and above 1000 KVA
KVA at 33 KV for Steel rolling industry and Metal Alloy, Steel	at 33 KV for Steel rolling industry and Metal Alloy, Steel Melting,
Melting, Ferro Alloy, and Ferro metallurgical industries all types of	Ferro Alloy, and Ferro metallurgical industries all types of Ferro alloy
Ferro alloy units where melting is involved using electric power.	units where melting is involved using electric power.



Particulars	Fixed Charges (Rs./KVA/ month)				
	Existing Charges	Proposed Charges	Existing Charges	Proposed Charges	
For All Units at 11kV / 33 kV	275	325	3.30	4.00	

8.4.5 HT V: HTAG / Agriculture

Existing Applicability Clause	Proposed Applicability Clause
This schedule shall apply to supply of power at 11 KV	This schedule shall apply to establishments for Irrigation pumping and Agricultural
and above to agricultural consumer, lift irrigation	purposes. It would include the following categories but not limited to:
schemes, agricultural farms etc with Contract Demand	 Poultry, Piggery etc
of 100 KVA and above.	 Horticulture, Green Houses, Plantations etc;
	 Cane crusher and/or fodder cutter for self-use for agricultural processing
	purpose, but shall not be applicable for operating a flour mill, oil mill or
	expeller in the same premises, either operated by a separate motor or change
	of belt drive.



Fixed Charges (Rs./KVA/ month)		Energy Charges (Rs/kWh)	
Existing Charges	Proposed Charges	Existing Charges	Proposed Charges
FY 2014-15	FY 2015-16	FY 2014-15	FY 2015-16
30	35	1.30	1.50

8.4.6 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.		

I. Tariff

Particulars	Fixed Charges		Energy Charges	
	(Rs./KVA/ month)		(Rs/kWh)	
	Existing Proposed		Existing	Proposed
	Charges	Charges	Charges	Charges
For All Units	-	150	-	4.50

II. Rationale

a. The tariff category is newly proposed for large individual consumers residing in bungalows, villas, etc who consume a substantial amount of energy and are in a position to cross subsidize other consumers.



8.4.7 HT VII: HTTS/ Temporary Supply

Existing Applicability Clause	Proposed Applicability Clause	
This schedule shall apply to lights, fans and small appliances for all	This schedule shall apply to usage of electricity for all temporary	
purposes at high voltage for Contract Demand of 100 kVA and above.	purposes.	

I. Tariff

Categories				Charges (Rs./kW/day)	
	(Rs/	(Rs/ Kwh)			
	Existing	Proposed	Existing Charges	Proposed Charges	
	Charges	Charges	FY 2014-15	FY 2015-16	
	FY 2014-15	FY 2015-16			
Temporary Supply	7.50	10.00	Rs. 100 per kVA per	Rs. 120 per kVA per	
			month or part thereof.	month or part thereof.	

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.



8.4.8 Single Point Supply/Distribution Franchisee Arrangement:

ED Goa has started receiving enquiries and applications for single point supply/ Distribution Franchisee arrangement from various consumers/ applicants such as Townships, Residential Complexes, including Group Housing Societies, IT Park, Industrial Estates, Commercial Complexes, including Malls etc.

One of the applicants, falling in mixed category, has submitted that majority of its consumers qualify for LT connection but some also fall under HT connection by virtue of the sanctioned load limits and they indicated the desire of getting supply at single point. Another applicant has submitted that although some consumers by virtue of contracted demand would qualify for HT connection, yet they are desirous of LT supply by EDG owing to nature of their load. The applicant is willing to install substation, Distribution Transformer and its switchgear / equipment's at its own costs, and is also willing to bear the cost of supply as input at the HT end of DT. However, it wants EDG to bill all the consumers directly.

ED-Goa is willing to accommodate the practical needs of its consumers and submits that these consumers/ applicants could be accommodated under Single Point Supply/ Distribution Franchisee Arrangement.

ED-Goa hence requests the Hon'ble Commission to guide with the terms and conditions for such arrangement, along with tariff mechanism. Based on the preliminary guidance/directives of the Hon'ble Commission according in-principle approval of such arrangement, ED-Goa would within a week of such guidance submit a detailed proposal covering implementation framework so that same can be approved by the JERC and enforced by EDG from FY 2015-16 onwards.



8.5 Schedule of Miscellaneous Charges for FY 2015-16

The Hon'ble Commission had approved Schedule of Charges in previous tariff order and accordingly ED-Goa has proposed revised Schedule of General & Miscellaneous charges for FY 2015-16.

In comparison to nearby states of Maharashtra, Gujarat and Karnataka, the miscellaneous charges are much lower for Goa. The brief comparison for the same is provided below:

Description	Existing (Goa)	Maharashtra	Karnataka	Gujarat
1) Reconnection Charges				
LT Services – At Cut outs				
Single Phase	Rs.10/-	Rs. 50/-	Rs.20/-	Rs.100/-
Three Phase	Rs.20/-	Rs.100/-	Rs.100/-	Rs.200/-
LT Services – At				
Overhead Mains				
Single Phase	Rs.15/-	Rs.50/-	Rs.50/-	Rs.100/-
Three Phase	Rs.30/-	Rs.100/-	Rs.100/-	Rs.200/-
LT Services – At				
Underground Mains				
Single Phase	Rs.50/-	Rs.100/-	Rs.50/-	Rs.100/-
Three Phase	Rs.100/-	Rs.100/-	Rs.100/-	Rs.200/-
HT Services	Rs.100/-	Rs.500/-	Rs.500/-	Rs.3200/-
2) Testing Fee for Various	Metering Equip	nents		
Single phase LT	Rs.10/energy	Rs.150/energy	Rs.100/ener	Rs.100/energy
	meter	meter	gy meter	meter
Poly Phase LT without CT	Rs.25/energy	Rs.500/energy	Rs.200/ener	Rs.300/energy
	meter	meter	gy meter	meter
L.T. meter with	Rs.100/energy	Rs.900/energy	Rs.200/ener	Rs.500/energy
CTs/Demand or Special	meter	meter	gy meter	meter
Type Meters				
H.T & E.H.T. metering	-	Rs 3000 up to	Rs.500/ener	Rs.1000/energ
equipment		33KV	gy meter	y meter
		Rs.5000 up to		
		EHT		

Table 60: Comparison of Miscellaneous Charges with other States



Description	Existing (Goa)	Maharashtra	Karnataka	Gujarat
3) Monthly Meter Rental Charges				
Single Phase LT meter	Rs.5/month	NA	NA	Rs.10/month
Three Phase LT meter	Rs.10/month	NA	NA	Rs/30/month
Three Phase LT meter	-	NA	NA	Rs.225/month
with CTs				
LT Meter with MD	-	NA	NA	225/month
Indicator				
Tri-vector Meter	₹500/month	NA	NA	750/month
Temporary Supply	Shall be twice	NA	NA	1 ph-Rs.15/m
	as applicable			3ph-Rs.60/m
	in above			HT-Rs.1500/m
	meter types			

The Miscellaneous charges have not been revised since 2002 and in last decade the average inflation has been around 6-8% per annum. To offset the material and labour price cost increases, there is need to revise these charges substantially. The miscellaneous charges for ED-Goa are much lower when compared to other utilities. Meter Rental, Re-Connection charges, Testing Fees, Service Connection charges have been increased to take care of current costs. The rise in inflation indexes is shown below:



Figure 1: WPI and CPI Indexes over the past decade



In view of the above, the ED-Goa has proposed to revise the miscellaneous charges for FY 2015-16. The table of Schedule of Miscellaneous Charges is below:

Description	Existing Charge	Proposed Charges
1) Monthly Meter Rental Charges (as per pro	ovisions of Regulation	7.3 (1) of JERC
(Electricity Supply Code) Regulations 2010		1
Single Phase LT meter	Rs.5/month	Rs.10/month
Three Phase LT meter	Rs.10/month	Rs.20/month
Three Phase LT meter with CTs	-	Rs.50/month
LT Meter with MD Indicator	-	Rs.30/month
Tri-vector Meter	Rs.500/month	Rs.1000/month
Temporary Supply	Shall be twice as	Shall be twice as
	applicable in above	applicable in above
	meter types	meter types
Changing or moving a Meter board	Actual Cost + 15%	Actual Cost + 15%
Note:		
(a) For all domestic and other LT loads less	s than 50 kW loads in U	rban and Rural areas
- Static single phase / three phase meters		
(b) For LT (contracted load \ge 50 KW) / HT	/ EHT consumer – Stat	ic, 3 Phase Tri-vecto
meters with MDI (MD Display)		
2) Reconnection Charges		
(as per provisions of Regulation 9.3 (c) of .	IERC (Electricity Suppl	y Code) Regulations
2010		
LT Services – At Cut outs		
Single Phase	Rs.10/-	Rs. 25/-
Three Phase	Rs.20/-	Rs. 50/-
LT Services – At Overhead Mains		
Single Phase	Rs. 15/-	Rs. 30/-
Three Phase	Rs. 30/-	Rs. 50/-
LT Services – At Underground Mains		
Single Phase	Rs. 50/-	Rs.75/-
Three Phase	Rs. 100/-	Rs. 125/-
HT Services	Rs. 100/-	Rs. 200/-
Note:	1	1
If the same consumer seeks reconnec	tion within 12 month	s from the date o
reconnection or disconnection, 50% will be	e added to above charg	es

Table 61: Proposed Schedule of Miscellaneous Charges

3) Re-Rating of Installations



Description	Existing Charge	Proposed Charges		
Lighting Installation	Rs. 10/-	Rs. 25/-		
Motive Power Installation	Rs. 25/-	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.10/energy meter	Rs.25/energy		
		meter		
Poly Phase LT without CT	Rs.25/energy meter	Rs.50/energy		
		meter		
L.T. meter with CTs/Demand or Special Type	Rs.100/energy	Rs.150/energy		
Meters	meter	meter		
H.T & E.H.T. metering equipment	-	Rs 10000/- at site		
Transformer Oil	Rs.100/-	Rs.200/- per		
		sample		
$3 - \emptyset$ Phase Tri-vector Meter Industrial LT	-	Rs.1000/- for		
Consumer		laboratory testing		
$3 - \emptyset$ Phase Tri-vector Meter 11 KV & 33 kV	-	Rs.5000/- at site		
HT Consumer				
Three Phase Tri-Vector Meter 110 KV EHT	No testing facility	RS.1000 /- at site		
Consumers	with MRT			
Combined CTPT Unit for 11kV & 33kV	Rs 1000/-	Rs 2500/-		
Consumer				
110KV CT / PT Unit		Rs 10000/-		
Single Phase CT	-	Rs.150/ unit		
Three Phase TT Block	Rs 200/unit	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 J	ERC (Electricity Supply	y Code) Regulations		
2010				
Single Phase	Rs.150	Rs.250		
Three Phase	Rs.300 to Rs.900	Rs.500 to Rs.1200		
HT (First 500 KVA)	Rs. 5000	Rs. 10000		
HT (Beyond 500 KVA)	Rs. 1500 per	Rs. 20000		
	100KVA			
Extra Length for Single Phase (beyond 30 metres)	Rs.15 /meter	Rs.50 /meter		
Extra Length for Three Phase (beyond 30	Rs.40 /meter	Rs.100 /meter		



Description	Existing Charge	Proposed Charges
metres)		
6) Testing Consumer's installation		L
(as per provisions of Regulation 4.10 (6) of J	ERC (Electricity Suppl	y Code) Regulations
2010		
For first test of the new installation on or off	-	NIL
an extension to an existing installation if the		
installation is found to be defective.		
For Subsequent test of the new installation		
or of an existing installation if the installation		
is found to be defective		
Single phase LT	-	Rs.100/-
Three phase	-	Rs.200/-
 MS/BS loads upto 70kW 	-	Rs.4000 + ST
 LS/BS/RT (loads Above 70kW) 	Rs.4850 + ST	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. 4850 + ST	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	-	Rs.50/-
phase).		
Maximum demand Indicator or C.T.s	-	Rs.50/-
chamber		
9) Service Charges		
General Supply		



Description	Existing Charge	Proposed Charges
Single Phase	Rs.5/-	Rs.10/-
Three phase below 70kW	-	Rs.20/-
Three phase above 70kW	Rs.5/-	Rs.50/-
Industrial/ bulk/ agriculture /Street Lightning		
Supply		
• Upto 70kW	-	Rs.25/-
Above 70kW	Rs.25/-	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 up to 20kW & AP Consumer	-	
H.T Industrial & Bulk supply consumer	-	Rs.5 per bill or Rs.10 per statement



CHAPTER 9. SEGREGATION OF MYT INTO WHEELING AND RETAIL SUPPLY BUSINESS

9.1 Allocation Policy

9.1.1 ED-Goa submits that as per Regulation 33 of MYT Regulations 2014 the allocation policy has been proposed in the Business Plan. The summary of the allocation statement based on which ARR/ MYT has been segregated into wheeling and retail supply business is given in the table below:

Sr.	Cost Elements	Wheeling %	Retail Supply %
1	Power Purchase Cost & Transmission Charges	30%	70%
2	Employee Expenses	90%	10%
3	Administrative and General Expenses	75%	25%
4	Repairs and Maintenance Expenses	95%	5%
5	Depreciation	95%	5%
6	Interest on Loan	95%	5%
7	Interest on Working Capital	95%	5%
8	Return on Equity	95%	5%
9	DSM Expenses	25%	75%
10	Interest on Security Deposit	10%	90%
11	Non-Tariff Income	75%	25%

Table 62: Allocation Statement Wheeling & Retail Supply

9.2 Segregation of Wheeling & Retail Supply ARR for Control Period

9.2.1 ED-Goa submits that ARR for the control period has been projected in Chapter 5 and summarised at Table 54. Based on the above allocation statement, the segregation of ARR into wheeling & retail supply business for the control period is given in the table below:



							Rs. Crores
Sr. No.	Particulars	FY 2015-16		FY 2016-17		FY 2017-18	
		Wheeling	Retail Supply	Wheeling	Retail Supply	Wheeling	Retail Supply
1	Cost of power purchase	344.96	804.90	370.13	863.63	395.66	923.21
2	Employee costs	209.21	23.25	213.05	23.67	217.14	24.13
3	Administration and General expenses	12.21	4.07	12.43	4.14	12.66	4.22
4	Repairs and Maintenance Expenses	35.44	1.87	50.16	2.64	75.30	3.96
5	Depreciation	60.03	3.16	76.66	4.03	113.58	5.98
6	Interest on Loan & Finance charges	83.79	4.41	101.66	5.35	148.00	7.79
7	Interest on Working Capital	4.06	0.21	5.11	0.27	6.31	0.33
8	Return on NFA /Equity	54.58	2.87	69.69	3.67	103.25	5.43
9	CGRF and DSM Expenses	-	-	-	-	-	-
10	Interest on Security Deposit	0.83	7.44	0.84	7.53	0.85	7.61
11	Total Revenue Requirement	805.09	852.17	899.74	914.94	1,072.74	982.67
12	Less: Non Tariff Income	4.99	1.66	4.99	1.66	4.99	1.66
13	Net Revenue Requirement	800.10	850.51	894.74	913.28	1,067.75	981.00

Table 63: Segregation of ARR into Wheeling & Retail Supply for Control Period

9.2.2 The Hon'ble Commission is requested to approve the segregation of wires & supply ARR for the control period as per above table.



CHAPTER 10. OPEN ACCESS CHARGES

10.1 Approach for computation of Open Access Charges

- 10.1.1 ED-Goa submits that as per Regulation 36 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. ED-Goa submits that study on voltage wise cost of supply in under process and shall be submitted to Hon'ble Commission by end of February 2015.
- 10.1.2 In absence of relevant data for computation of open access charges, ED-Goa requests Hon'ble Commission to consider the same approach as approved in Tariff Order FY 2014-15.
- 10.1.3 Accordingly, ED-Goa has computed open access charges has considering the following wheeling losses for HT & EHT and allocation % for wheeling cost between HT & LT as approved in Tariff Order FY 2014-15.
 - Wheeling Loss at HT & EHT Level 3.636% (balance losses attributable to LT Level)
 - Wheeling Cost allocation for HT & EHT : LT = 53: 47

10.2 Computation of Wheeling Charges & Losses

10.2.1 Based on above and the projections for Sales and Wheeling ARR for FY 2015-16, the wheeling charges and losses for HT/EHT & LT are given in the table below:

Particulars	UoM	Amount	
Total Input	MU	3,738.79	
Input for HT & EHT Sales	MU	1,970.02	
Losses for HT & EHT	%	3.6360%	
Losses	MU	71.63	
Sales at 11 kV & above	MU	1,898.39	
Input for LT	MU	1,768.77	
Losses at LT Level	MU	25.0%	
Losses	%	442.45	
Sales at LT Level	MU	1,326.31	
Balance	MU	-	

Table 64: Wheeling Charges	and Losses for FY 2015-16
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Particulars	UoM	S.No.	FY 2015-16
Wheeling Cost	Rs.Crs	а	800.10
Wheeling Cost at EHT & HT	Rs.Crs	b=ax53%	426.00
Wheeling Cost at LT	Rs.Crs	c=ax47%	374.09
Energy Input at Discom Periphery	%	d	3,738.79
Wheeling Charge at EHT & HT Level	Rs/kWh	e=b/dx10	1.14
EHT and HT Losses	%	f	3.64%
EHT and HT Losses	MU	g	135.94
Sales at EHT and HT Level	MU	h	1,898.39
Energy Input at LT	MU	i=d-g-h	1,704.45
Wheeling Charge at LT Level	Rs/kWh	j=c/ix10	2.19
Sales at LT Level	MU	k	1,326.31
LT Losses	MU	l=i-k	378.14
Total Losses	MU	m=g+l	514.08
	%	n	13.75%

10.3 Computation of Cross Subsidy Surcharge

10.3.1 The open access consumers are liable to pay cross subsidy surcharge to compensate the distribution utility for any loss of revenue due to shifting of its consumer to the open access system. The cross subsidy surcharge for open access consumers for the year 2015-16 is calculated as per the following recommended formula in the Tariff Policy.

S = T - [C (1+L/100) + D]

Where,

S = Surcharge

T = Tariff payable by the relevant category of consumers

C = Weighted average cost of power purchase of top 5% at the margin excluding liquid fuel based generation and renewable power.

D = Wheeling charges (Transmission and Distribution)

L = System losses for the applicable voltage level, expressed as a percentage.

10.3.2 The computation of top 5% power for FY 2015-16 is given below:



S No	Source	Ex-bus Purchase (MU)	Reasons	VC (Ps/Unit)	Total Cost (Rs.Crs)	Total Cost (Ps/Unit)	Top 5% Energy (MU)	Cost of Top 5% Energy
								(Rs Cr)
1	Renewable Energy Sources	27.00	Must Run	857.04	23.14	857.04		-
2	Mouda	88.22		388.90	49.85	565.01	88.22	49.85
3	Barh-II	89.44		385.36	49.14	549.40	89.44	49.14
4	Traders / Open Market	77.15		369.81	28.53	369.81	19.20	7.10
5	KGPP	59.15		297.35	25.90	437.88		-
6	TAPS Unit 3 and 4	80.86	Must Run	287.88	23.28	287.88		-
7	GGPP	63.59		284.59	28.23	443.91		-
8	Goa Energy Private Ltd	124.27		240.00	29.82	240.00		-
9	RSTPS	731.18		240.08	220.65	301.78		-
10	Goa Sponge & Power Ltd	6.68		240.00	1.60	240.00		-
11	Sesa Goa Limited	55.00		240.00	13.20	240.00		-
12	KAPS Unit 3 and 4	61.18	Must Run	237.71	14.54	237.71	-	-
13	KAPS Unit 1 and 2	116.17	Must Run	237.71	27.61	237.71		-
14	VSTPS - I	274.69		177.58	67.46	245.60		-
15	VSTPS - II	99.51		168.26	22.49	226.02		-
16	VSTPS -III	84.55		167.93	22.10	261.36		-
17	VSTPS -IV	80.99		167.91	26.90	332.20		-
18	SIPAT- I	169.36		136.82	43.45	256.54		-
19	SIPAT- II	80.60		133.79	20.23	250.97		-
20	KSTPS	1,531.04		92.17	231.57	151.25		-
21	KSTPS-III	36.66		90.91	8.49	231.48		-
22	Total	3,937.26			978.18		196.86	106.09
							TRUE	
Top 5	% Volume of Energy	196.86	Must Run a	•				;
Cost	of Top 5% Energy	106.09	determining	g Top 5% F	Power Purc	hase Cost		
Per U	Init Cost	5.3888						

Table 65: Computation of Top 5% Power for FY 2015-16

10.3.3 The computation of 'C' and Cross Subsidy Surcharge for important consumer categories is provided in the table below:

	Calculation of Total Cost - B	ased on Al	RR FY 2014-:	15	
	Particulars	Unit	Upto 33	11 kV	LT Level
			kV		
C =	Weighted average cost of power purchase of 5% at the margin excluding UI and renewable power	Rs./Unit	5.39	5.39	5.39
D =	Wheeling Charges	Rs./Unit	1.14	1.14	2.19
L =	System Losses for the applicable voltage level	%	3.64%	3.64%	25.01%
Total	[C (1+ L / 100) + D]	Rs./Unit	6.72	6.72	8.93

Table 66: Computation of Total Cost for FY 2015-16



	Computation of Cross Subsi	dy Surchar	ge - FY 2015	-16	
Major (Consumer Categories	Proposed Tariff (Rs/kWh)	Surcharge upto 33 kV (Rs/kWh)	Surcharge at 11 kV (Rs/kWh)	Surcharge at LT Level (Rs/kWh)
1	Tariff HTI/Industrial	5.018	-	-	-
2	Tariff HTFS/ HT Industrial (Ferro Mettallurgical/ Steel Melting/ Power Intensive/Steel Rolling)	4.756	-	-	-
3	Tariff LTC/Commercial (above 20 kW)	5.984	-	-	-
4	Tariff LTI/Industrial	3.851	-	-	-

10.3.4 The Hon'ble Commission is requested to consider the above computations and approve appropriate CSS for FY 2015-16.

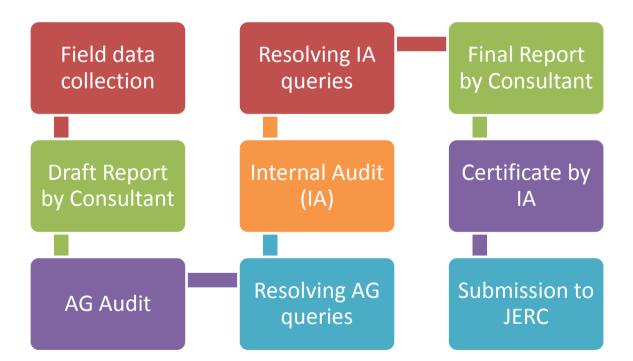


CHAPTER 11. COMPLIANCE TO DIRECTIVES GIVEN BY JERC

The Hon'ble Commission in its Tariff Order for FY 2014-15 had laid down certain directives to be complied by ED-Goa. The directives as provided by the Hon'ble Commission and the status of the said directives are replied as below:

11.1 Annual Statements of Accounts

- 11.1.1 **Directive:** The Hon'ble Commission in its order had noted the submission of petitioner in terms of progress for said directive and further directed to file the pending true up and financial statements for FY 2008-09 onwards, strictly in compliance with the accounting standards after getting the accounts audited and submit to Commission latest by 30th September 2014.
- 11.1.2 **<u>Response to Directive:</u>** ED–Goa would like to submit the process of the finalisation of which takes nearly 4-5 months to complete 1 Financial Statement.



11.1.3 ED-Goa submits that data is collated and prepared on manual basis for all the past years from all the sub-divisions to division level and then from division to circle level. ED-Goa submits that it massive task to prepare accounts which were pending from FY 2007-08 onwards. The major efforts are required in terms of data being collated from all divisions for billing & collection (sales & revenue).



- 11.1.4 Further the Accounts officers are not in direct control of Electricity Department as they belong to Directorate of Accounts department. Also the Government Audit office takes time to nominate its team for Audit of financial statements of which also is an uncontrollable factor.
- 11.1.5 ED-Goa would like to submit the progress in terms of said directive.

Sr.	Financial Year	Status	Likely Date of
No.			Completion
1	FY 2007-08	The same is completed and submitted to Commission on 09/01/2014	Completed on 09/01/2014
2	FY 2008-09	Audit by Internal Auditor and CAG is completed on 19/09/2014, Provisional comments received from CAG on 13/11/2014 and Replied on 18/11/2014, Further Provisional comments received from CAG on 02/12/2014 compliances to further comments are is in progress	Audit Completed on 19/09/2014
3	FY 2009-10	Audit by Internal Auditor and CAG is completed on 19/09/2014, Provisional comments received from CAG on 08/12/2014. Compliances to further comments are is in progress	Audit Completed on 19/09/2014
4	FY 2010-11	Draft Proforma Account received from M/s Feedback Infra Pvt. Ltd on 15/09/2014. And was kept pending. However the same has not process due to non finalization of previous years Accounts. Now same forwarded to CAG for Audit vide the letter No. CEE/Accts-99(A)/2014-15/3923 dated 05/01/2015	Audit Pending
5	FY 2011-12	The data is being collated from all divisions mainly for billing & collection (sales & revenue) and the draft accounts are under preparation. Thereafter AG Audit & Internal Audit would be undertaken which would likely take 1 month.	September 2015
6	FY 2012-13	The data is being collated from all divisions mainly for billing & collection (sales & revenue) and the draft accounts are under preparation. Thereafter AG Audit & Internal Audit would be undertaken which would likely take 1 month.	September 2015



11.1.6 ED-Goa expects to positively finalise accounts up to FY 2012-13 by September 2015. Considering the facts and the positive intent to comply with the Hon'ble Commission's directive, ED-Goa requests to grant additional time.

11.2 Preparation of Asset and Register

- 11.2.1 **Directive:** The Hon'ble Commission in last tariff order has appreciated the efforts of ED-Goa in completion of Asset and Depreciation Register and has further directed that the FAR for all the previous year be submitted to the Commission latest by 30th September 2014.
- 11.2.2 **Response to Directive:** ED-Goa would like to submit that it has taken cognisance of the suggestions/ observations of the Commission in regard to FAR report of FY 2007-08 while finalising FAR from FY 2008-09 to FY 2012-13. ED–Goa would like to submit that FAR works for all years upto FY 2012-13 has been completed.
- 11.2.3 ED-Goa submits that the impact of FAR in terms of Gross Fixed Assets, depreciation calculation etc is being taken into Financial Statements of the respective year which are duly audited by Government Auditors and Internal Auditors.

11.3 Energy Audit and T&D Losses

- 11.3.1 **Directive:** The Hon'ble Commission in the last tariff order noted the efforts of petitioner and observed that Energy Audit report has to be prepared considering entire network and not on sample basis. The Commission has further mentioned to replace non-working meters and / or install working meters in all the feeders and DT's and get the Energy Audit done and submit the report latest by September 30' 2014.
- 11.3.2 **<u>Response to Directive</u>**: ED-Goa would like to submit the present status of metering on feeders and DTs as under:
 - a) FEEDER METERING:
 - i. Metering of all 11 kV outgoing feeders at the 33/11 kV sub-stations is completed.
 - ii. The metering points identified by the Third Party Agency for Energy Audit are all metered.
 - b) DISTRIBUTION TRANSFORMER (DT) METERING:
 - i. 80% of DT metering is completed.



- ii. The metering of balance 20% DT's is to be provided by respective Division. To complete this balance work, the Chief Electrical Engineer has given instructions to all O&M Divisional Engineers to place their requirement of materials to the Executive Engineer, Divn.-II(S&W) for procurement action.
- iii. The time required for completing the balance DT metering work is around 6-months.

Accordingly, ED-Goa would seek additional time to submit Energy Audit report based on complete metering.

11.4 Interest on Security Deposit

- 11.4.1 **Directive:** The Hon'ble Commission had re-directed ED Goa to make payment of interest on security deposit for all pending years and submit the report latest by June 30, 2014 failing which the commission would be constrained to initiate action under section 142 of the Electricity Act, 2003.
- 11.4.2 <u>Response to Directive:</u> ED-Goa is in the process of making payment of interest on security deposit for all pending years. ED-Goa has identified an amount of Rs.
 8,62,46,936 in this regard and has submitted a letter to the Government for making a provision of this amount on 17th October 2014. The letter submitted by ED-Goa to the Government for approval is attached as **Annexure VIII** to this Petition.

11.5 True-up of FY 2011-12 and FY 2012-13

- 11.5.1 **Directive:** The Hon'ble Commission in para 3.1 of the Tariff Order has directed the Petitioner to conclude the audit of the accounts and file the true up for FY 2011-12 and FY 2012-13 before June 31, 2014. Non-compliance of the directive would attract proceedings under the section 142 of the Electricity Act 2003.
- 11.5.2 <u>Response to Directive:</u> ED–Goa would like to submit true-up of FY 2011-12 and FY 2012-13 can be filed only after the financial statements for both years are completed. ED-Goa submits that it would file the true-up petition within 1 month of completion of financial statements i.e likely by 2015 March end.



11.6 Creating Consumer Awareness

- 11.6.1 **Directive:** The Hon'ble Commission in para 4.2.1 of the Tariff Order has directed ED-Goa to create awareness amongst the consumers on the standards of performance notified by the Commission and arrange to publish the Standard of Performance/ Salient features of Supply Code and Distribution Code in all leading newspapers and in the vernacular, in simple language that is understandable to the general consumer.
- 11.6.2 **Response to Directive:** ED-Goa has undertaken the following initiatives for creating awareness between consumers
 - Safety Do's and Don'ts are published in local newspapers regularly during rainy seasons. One such advertisement is attached as **Annexure IX** to this Petition.
 - Warnings are issued in newspapers where new network is being set up in order for local public to make safety measures.
 - People are made aware of installation of new line/substation soon after commissioning.
 - In case of planned shutdown in particular area, details are published in news papers.
 - Common call centre is been set up other than the consumer complaint centres for safety purposes. The call centre number is 1912 and this service can be used by any consumer from their local landline.
 - CGRF related information is published on the backside of the printed bill provided to consumers.

11.7 Steps taken to enhance Automation in Department

- 11.7.1 **Directive:** The Hon'ble Commission in para 4.2.1 of the Tariff Order has directed ED-Goa to submit a status report regarding various steps being taken up to enhance automation in the Department and reduce manual interventions wherever possible. The status report should be submitted within three months of the issuance of this order.
- 11.7.2 **Response to Directive:** ED-Goa has undertaken Part-A of R-APDRP consisting of Projects for establishment of baseline data and IT applications for energy accounting/auditing and IT based consumer service centres. ED-Goa had taken up this work midway. ED-Goa thereafter recently awarded the works on nomination basis to RECTPDCL.



The scope of work covers preparation of Base-line data for the project area covering consumer indexing, GIS mapping, Metering of Distribution Transformer and Feeders, and Automatic Data Logging for all Distribution Transformers and Feeders. It includes Asset Mapping of entire distribution network at and below the 11 KV transformers and includes the Distribution Transformer, Low Tension lines, poles and other distribution network equipment.

It also includes adoption of IT applications for meter reading, billing and collection; energy accounting and auditing; MIS; redressal of consumer grievances; establishment of IT enabled consumer service centres etc.

ED-Goa is also undertaking the sub-transmission and distribution improvement works under the IPDS/DDUGJY schemes launched by the Central Government. The works envisaged are mainly for strengthening of network, for which new substations/lines/interconnections/reconductoring, transformer augmentation/ addition, revamping of substation, High voltage Distribution System, Load balancing/feeder segregation. HT/LT Arial bunched cables, capacitor banks/ reactors at 11 KV and 33 KV, Laying of underground cables in densely populated areas, have been planned.

Apart from the above works, plans are afoot to have Grid Substation automation and integration with SCADA, Strategic distribution RMU, FPI and integration with DMS, Outage management system and integration with GIS and CRM, provisioning compatibility with Smart Technologies etc. The provisioning compatibility with Smart technologies will enable the Department in further automating the entire distribution network.

11.8 Meeting RPO for past years

11.8.1 **Directive:** The Hon'ble Commission in para 5.8 of the Tariff Order has directed ED-Goa to comply with the directions of the Commission and fulfil its RPO obligations, including the backlog of the previous years.



11.8.2 **Response to Directive:** ED–Goa would like to submit the status on RPO as under:

Solar RPO Status:

As regards fulfilment of Solar RPO is concerned, PPA has been executed by the Government with M/s NVVNL, New Delhi on 22/8/2014 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. 28-08-2014.

Further M/s Solar Energy Corporation of India, New Delhi vide letter No. SECI/JNNSM/P-2/B-1/Power Sale/851 dated 11-07-2014, has allocated 10 MW of Solar power to the State and also submitted Power Sale Agreement (PSA). The copy of the letter is provided at **Annexure X** to this Petition. The PSA to be executed with SECI has been submitted to the Government for approval for execution. The SECI will be supplying solar power of 10 MW @ Rs 5.50 per unit exclusive of transmission charges for a period of 25 years. It is anticipated that PSA will be executed shortly after negotiations on legal clauses and shall fulfil the solar RPO from 2015-16 till next 25 years.

To meet Solar RPO, ED-Goa will also purchase RECs in control period to ensure there is no carry forward of Solar RPO in second control period.

Non-Solar RPO Status:

Tender was invited by the Electricity Department – Goa for fulfilment of nonsolar RPO of FY 2014-15 and further 4 years period. There were three offers against the tender. The lowest offer was @ Rs 6.10 per unit at Goa Periphery but the commencement of supply was from 1/4/2015. Another offer was @ Rs. 7.25 at Goa periphery for commencement of power from current year itself.

As the rates offered were on higher side & considering miniscule business of ED-Goa, it is decided to purchase RECs to meet Non Solar RPO for FY 2014-15 and subsequent financial years. ED-Goa has planned to purchase RECs equivalent to ~ 85 MUs in FY 2014-15. Similarly it would also purchase RECs in control period to ensure there is no carry forward of Non-Solar RPO in second control period.



Annexure I: Power Allocation Statements

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Note :(i) Allocation from unallocated quota of coal based stations of NTPC for unbundling solar power under JLNNSM (Phase-I) in WR changed as per MOP Letter No.13/06/OM dated 12.02.2013 & NVVN/SO & Comml/JNNSM/Phase-1 dated 25.02.2013



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biance and chard 140.98 113.80 111.12 101.12 020.70 250.00 260.00 270.00	Heavy Water Plant of DAE		02.00	CL.LO	20.11	20.11			20.11		21.00					
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Jackspar Product 40.000 385.00 273.00 200.00 140.00 117.00 143.00 33.00 180.00 25.00 15	Gujarat		360.00	230.00	239.00	266.00	187.00	237.00	273.00	125.00	274.00	96.00	540.00	239.92	239.92	3306.84
biobandame 610.00 101.00 39.00 29.00 29.00 29.00 1700 99.00 1700 99.00 1700<	Madhya Pradesh		400.00	385.00	273.00	200.00	140.00	117.00	143.00	93.00	180.00	62.50	283.00	256.41	156.41	2689.32
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Constituents KSTPS VSTPS.I VSTPS.II VSTPS.III VSTPS.IIII VSTPS.IIII VSTPS.IIIIIIIII VSTPS.IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Shares in %		2.00.00		1000.00	1000.00	000.20	551.55	1000.00	-40.00		500.00	1000.00	1000.00	1000.00	10010.00
Madhya Pradesh 22.9494 35.1907 31.8225 24.5225 21.3603 17.8271 18.7248 25.3172 21.4658 15.2665 17.0595 28.4076 18.4076 Chhattiggarh 10.0000 0.0000 10.5000 0.0000 10.6000 0.0000 4.4444 30.0001 15.8081 6.2550 6.2550 GOA 10.1050 2.9339 1.3486 1.1486 1.8870 1.9234 1.1413 3.5320 1.1880 1.0081 1.2281 1.3281 DO 2.4032 1.1346 1.8470 1.9234 1.1413 3.5320 1.1880 1.1081 1.2182 1.3281 1.3281 DO 2.4032 1.3745 3.2353 3.4353 1.2376 8.9350 3.0951 2.7994 3.804 4.4100 4.4246 4.5250 4.5250 Allocation to Powergrid (HVDC-BHD) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000<	Constituents															
Chhattisgarh 10.0000 0.0000 10.5000 0.0000 15.8001 6.2550 6.2550 Maharashtra 31.6702 36.4392 25.6132 29.5132 31.1356 29.3296 34.2071 40.6219 26.8392 30.9567 32.2471 42.2471 SOA 10.1050 2.9339 1.3486 1.1486 1.8701 3.5320 1.1880 1.1081 1.2182 1.3281 DD 2.4032 1.1380 1.0058 1.2058 4.7317 4.7733 1.0799 1.9473 1.2676 1.3083 1.3923 1.3773 1.3773 OH 2.4032 1.1380 1.0058 1.2058 8.9350 3.0951 2.7994 3.8804 4.4100 4.4246 4.5250 4.5250 Allocation to Powergrid (HVDC-BHD) 0.2000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000																
Maharashtra 31.6702 36.4392 35.6132 29.5132 31.356 30.4786 29.296 34.2071 40.6219 26.8392 30.9567 32.2471 42.2471 SOA 10.1050 2.9339 1.3486 1.8870 1.9234 1.1413 3.5322 1.1880 1.1081 1.2182 1.3281 1.3281 DD 2.4032 1.1380 1.0058 1.2058 4.7317 4.7733 1.0709 1.9473 1.2676 1.3083 1.3923 1.3773 NH 2.4032 1.1380 1.0058 1.2058 4.7317 4.7733 1.0709 1.9473 1.2676 1.3083 1.3923 4.5750 Allocation to Powergrid (HVDC-BHD) 0.2000 0.0000	Chhattisgarh															
DD 2.4032 1.1380 1.0058 1.2058 4.7317 4.7733 1.0709 1.9473 1.2676 1.3083 1.3923 1.3773 1.3773 DNH 2.4786 3.3745 3.2353 3.4353 12.3766 8.9350 3.0951 2.7994 3.8804 4.4100 4.4246 4.5250 4.5250 Allocation to Powergrid (HVDC-BHD) 0.2000 0.0000	Maharashtra		31.6702	36.4392	35.6132	29.5132	31.1356	30.4786	29.3296	34.2071	40.6219	26.8392	30.9567	32.2471	42.2471	
DNH 2.4786 3.3745 3.2353 3.4353 12.3786 8.9350 3.0951 2.7994 3.8804 4.4100 4.4246 4.5250 4.5250 Allocation to Powergrid (HVDC-BHD) 0.2000 0.0000 <td>GOA</td> <td></td>	GOA															
Allocation to Powergrid (HVDC-BHD) 0.2000 0.0	DNH															
BARC Facilities (TAPS 384) 0.0000	Allocation to Powergrid (H			0.2000												
Instruction			0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0050	0.0000	0.0000	0.0000	0.0000	l
Maharashtra(NVVN coal power) 0.1911 0.1952 0.1942 0.1942 0.0000 0.1942 0.0000 0.1942 <td></td> <td>9</td> <td>0.0000</td> <td></td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td></td> <td>0.9259</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td></td>		9	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		0.9259	0.0000	0.0000	0.0000	0.0000	
NVVN A/C. BPDB 1.9048 0.7937 1.5000 1.5000 0.0000 <th< td=""><td>Maharashtra(NVVN coal po</td><td>wer)</td><td></td><td>0.1952</td><td></td><td></td><td></td><td></td><td></td><td>0.0000</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Maharashtra(NVVN coal po	wer)		0.1952						0.0000						
Rajgarh solar PV Project to MPPMCL 0.4551 0.4648 0.4624 0.4024 0.0000 0.4624 0.0000 0.4624 0.4624 0.4624 Chattisgarh (NVVN Coal Power) 0.1850 0.1850 0.1850 0.0000 0.1850 0.0000 0.1850 0.0000 0.1850 <td>Jammu and Kashmir</td> <td></td>	Jammu and Kashmir															
Chattisgarh(NVVN Coal Power) 0.1820 0.1859 0.1850 0.1850 0.0000 0.0000 0.1850 0.0000 0.0000 0.1850 0.1850 0.1850 0.1850 0.1850	NVVN A/c BPDB Raigarh solar PV Project to	MPPMCI														
TOTAL 100.0000 1000000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.00000 100.00000000	Chattisgarh(NVVN Coal Po		0.1820	0.1859	0.1850	0.1850	0.0000	0.0000	0.1850	0.0000	0.0000	0.1850	0.1850	0.1850	0.1850	
	TOTAL		100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	

Note :(i) Allocation from unallocated quota of coal based stations of NTPC for unbundling solar power under JLNNSM (Phase-I) in WR changed as per MOP Letter No.13/06/OM dated 12.02.2013 & NVVN/SO & Commi/JNNSM/Phase-1 dated 25.02.2013



GOA

Annexure II: Month wise Power Purchase Details - FY 2013-14

N T P C L I M I T E D WESTERN REGION HEADQUARTERS, MUMBAI- 400093 SUMMARY OF FY 2013-14

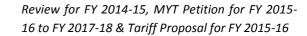
Bill No WR:12-13: GOA

FAX to: Executive Engineer, Div-3 0832-2317810 /2313780 CUSTOMER:

DIII NO																		
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	Mouda I	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	Total Units
	Energy scheduled(KWH) Energy Charges(Ps/KWH)	1,645,011,635	41,090,735	231,568,331	103,890,356	92,817,856	49,773,020	7,158,893	30,707,759	30,329,972	142,908,686	80,186,166	-	-	-	-	725,577,098	3,181,020,507
																		AMT(Rs)
01.	Capacity Charges	914,340,988	63,881,195	180,269,356	68,211,847	97,971,852	72,951,954	67,924,729	79,622,407	103,881,276	229,932,924	104,577,940	-	-	-	-	433,678,995	2,417,245,463
02.a.	Basic Energy Charges	1,548,916,768	38,781,830	317,470,302	134,480,792	120,323,172	64,804,390	20,232,350	82,972,561	85,235,914	220,053,085	127,025,944	-	-	-	-	1,522,998,426	4,283,295,534
02.c.	MOPA Charges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03.	ED&Cess on APC	81,084,134	2,051,952	13,996,409	6,378,144	5,667,688	2,772,505	-	-	-	6,882,535	3,997,058	-	-	-	-	-	122,830,425
04.a.	ED&Cess on Sales	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04.b.																		
	Total (Main Bills) Rs.	2,544,341,890	104,714,977	511,736,067	209,070,783	223,962,712	140,528,849	88,157,079	162,594,968	189,117,190	456,868,544	235,600,942			•		1,956,677,421	6,823,371,422
05.	Supplementary Charges	129,331,807	5,507,434	47,289,312	18,182,035	12,853,721	2,038,238	(11,284,985)	(20,292,130)	(19,555,557)	48,174,561	11,183,827	123,036	37,982	1,785	(5)	44,001,736	267,592,797
	URS	-	-	(2,079,058)	(69,127)	-	(826,592)	(63,376)	(1,134,120)	(694,164)	(2,796,346)	(336,179)	-	-	-	-	-	(8,020,979)
	O&M installments																	96,281,141
	less rebate additonal																	(6,316,998)
06.	LC Bill (Gross) Rs.	2,673,673,697	110,222,411	556,946,321	227,183,691	236,816,433	141,740,495	76,808,718	141,168,718	168,867,469	502,246,759	246,448,590	123,036	37,982	1,785	(5)	2,000,679,157	7,172,907,383



						WESTERN	REGION HEA	ADQUARTE	rs, mumbai-	400093								
F:	REA/2013-14/4.0	DATED:	3-May-13				LC BILL RA	ISED IN TH	E MONTH OF	MAY 2013						FAX to:	Executive Engli 0832-2317810 /2	
I No.	WR:12-13 : GOA	DATED:	6-May-13									C	USTOMER:	G	DA			
.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
	Energy scheduled(KWH)	137,421,388	447,278	16,063,980	9,316,955	8,163,092	2,690,011	-	APM: 2579445 N- APM:118112 9 Lq : RLNG:	APM: 4574760 RLNG: 24 N-APM: 631768	11,501,021	5,454,357	-	-	-	-	66,868,569	
	Energy Charges(Ps/KWH)	81	74	125	118	118	118		APM : 227.6	APM : 228.1 RLNG : 925.9 N- APM : 301.9	113	123	224	248	118	234	200	
	Oranaita Okaman	76.381.124	2.881.294	13.250.962	0.074.444	8.384.597	4 007 004	3.504.074	8006080	9474412	45 004 050	7 500 005					20.040.404	AMT 195990
	Capacity Charges	- / /	1 1 -	-))	6,071,111		4,887,931	-1 1-	9501608	-	15,831,956	7,500,065	-	-	-	-	39,816,401	
	Energy Charges	111,173,903	330,538	20,096,039	11,003,324	9,640,612	3,176,903	-		12342558	13,007,655	6,697,950	-	-	-	-	133,804,007	330775
	MOPA Charges	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	
	Incentive	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	
	ED&Cess on APC	4,991,537	118,813	1,332,140	564,865	535,469	70,750				419,988	237,098						8270
	ED&Cess on Sales	-	-	-	-	-	-				-	-						
	Total (Main Bills) Rs.	192,546,564	3,330,645	34,679,141	17,639,300	18,560,678	8,135,584	3,504,074	17507688	21816970	29,259,599	14,435,113	-	-		•	173,620,408	535035
	CC / EC Rvsn / MOPA - March-13	-	-	-	-	-	(308,265)	(302,705)	25231	17122	-	-	-	-	-	-	627,677	59
	KST-3 CC Rvsn (CERC order dtd. 09/04/13)		3,072,676															3072
	WRLDC Fees and charges - March-13	133,288	4,986	25,368	9,843	8,406	5,990	3,663	10196	10403	15,035	8,407					121,290	356
	Tariff Filing Fees 2013-14	935,384	23,978	162,533	59,682	50,956			54428	55571		50,956				-	439,824	1833
	Annual Availability Adjustment						150,407	274,616										42
	TST CC Rvsn (CERC order dtd. 15/04/13)														148			
	Additional Income tax : FY 2006-07	1,212,265		217,762									106				439,246	1869
	ECR Rvsn KHS-2 / RST																25,387,530	25387
3.	Interest on FC Rvsn (KST-3 and TST)		373,028												68			373
I.	Water pollution Cess : RST															(5)	426,602	426
	supplimenatry bills	2,280,937	3,474,668	405,663	69,525	59,362	(151,868)	(24,426)	89855	83096	15,035	59,363	106	-	216	(5)	27,442,169	
5.	LC Bill (Gross) Rs.	194.827.501	6.805.313	35.084.804	17.708.825	18.620.040	7.983.716	3.479.648	17597543	21900066	29.274.634	14.494.476	106		216	(5)	, ,	568839
).		.,,	.,,	,,	,,	.,,	,,	.,,			,,,	.,,				(0)		
	Net LC Bill (Gross-Rebate)	194,827,501	6,805,313	35,084,804	17,708,825	18,620,040	7.983.716	3.479.648	17597543	21900066	29,274,634	14.494.476	106		216	(5)	201,062,577	568839
etails o			-,,		,,	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,	-,,			,	,,			URS schedu		, ,	(1202
	Rate of FC for URS@ (Ps/Kwh)	56	162	65	65	113	152	187	94.93	111.58	123.17	124.16	1		ono soneut	ica by our		(120/
	URS in KWH	-	-	(913,875)	-	-			(301144)	(256513)	(27500)	0						
	URS in Rs	-	-	(596,303)	-	-	-	-	(285876)	(286217)	(33872)	0	2nd install	lment of Ad	dl O&M cha	rges (Bill o	date: 06th April	875
		1.24		REBATABLE	Rs.	564819244				/	/				R + SR) for t			57639
	Pooled Capacity Charges (Ps/kWh)	0.73		NON-REBATA	BLE Rs.	11570779							Less : Add	litional reba	ate @ 0.1%	(previous	month)	57





NTPC LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 LC BILL RAISED IN THE MONTH OF JUNE 2013 FAX to: Executive Engineer, Div REF: REA/2013-14/5.0 DATED: 5-Jun-13 0832-2317810 /2313780 Bill No WR:12-13 : GOA DATED: 6-Jun-13 CUSTOMER GOA SI.No. PARTICULARS KSTPS KSTPS 3 VSTPS1 VSTPS2 VSTPS3 VSTPS4 MSTPS1 KGPS JGPS SIPAT-1 SIPAT-2 FSTPS KhSTPS 1 KhSTPS 2 TSTPS RSTPS APM APM 3025814 4985178 N-APM:988837 RLNG: N APM: 376879 145252683 3859125 18350666 9245201 8401340 2596550 9250027 5281218 69199168 Energy scheduled(KWH) RLNG: APM : 227.7 APM 228 N-APM : 307.3 RLNG : 925.9 Lq : 1073.7 N-APM 115.70 110.70 110.70 296.20 RLNG : 1286 301.8 160.40 159.30 225.30 198.10 152.60 187.00 181.400 Energy Charges(Ps/KWH) 114.80 117.20 110.70 AMT(Rs 80733957 5724702 13912696 6056936 8645556 4912545 3620877 8285695 9618559 14795316 7563968 0 41204017 205074824 01 Capacity Charges 0 0 0 168057354 4430276 21506981 10234438 9300283 2874381 9928474 12543508 14837043 8412980 0 0 0 0 125527291 387653009 02.a Energy Charges 0 02.b. **MOPA** Charges 0 0 0 0 0 0 0 0 0 0 0 Λ Ω 0 0 03. 0 0 0 0 0 0 0 0 0 0 0 0 Incentive 0 0 0 0 0 04.a 5003579 16286 979874 568317 497934 164086 425694 197990 7853760 ED&Cess on APC 04.b ED&Cess on Sales 0 0 0 0 0 0 Total (Main Bills) Rs. 253794890 10171264 36399551 16859691 18443773 7951012 3620877 18214169 22162067 30058053 16174938 0 0 0 166731308 600581593 0 05. EC Rvsn / MOPA - April-13 1786478 5368 0 39247 9688 (184017 (87269) 0 0 0 0 1569495 0 0 0 0 14452 06. AddI IT (04-05 to 08-09)&Dfrd IT Liability(12-13 34336297 10391848 405 193 829453 63361 18616720 64252729 07. 141432 5407 27084 10543 9004 6503 6498 11003 11227 9003 133046 386716 WRLDC Fees and charges - April-2013 15966 08. 32930987 898808 92573 401522 34323890 ECR Rvsn - KST 1 / 3 & SPT 1 / 2 165627 198571 6316018 745182 2229112 178690 10841925 09. FERV (12-13) KST1/3,VST1/2/3,SPT2,KHS2 1008725 0 0 0 0 0 0 0 0 0 (66) KHS-1 CC Rvsn (CERC order dtd 03.05.13) (66 10. 11. Interest on KHS-1 CC Rvsn (Item 10) (31) (31 12. Water Cess - VST / SPT / KHS-2 93481 43492 35575 172548 0 13. 22 25 Filing Chgs Adjustment 9 (6 (4) 4 14. ERLDC Charges Rvsn (53) (21) (73) supplimenatry bills total 63308 14355 70203928 1075232 10710978 6326557 754190 6503 6498 50655 21108 (31986 3417396 (21) ٥ 18928457 LC Bill (Gross) Rs. 323998818 11246496 47110529 23186248 19197963 7957515 3627375 18264824 22183175 30026067 19592334 63308 14355 (21) 0 185659765 712128751 15. 16. 17. Net LC Bill (Gross-Rebate) 323998818 11246496 47110529 23186248 19197963 7957515 3627375 18264824 22183175 30026067 19592334 63308 14355 (21) 0 185659765 712128751 Details of URS Credit for URS scheduled by other SEBs (1107980 Rate of FC for URS@ (Ps/Kwh) 55.58 161.62 65.25 65.16 113.38 151.73 186.85 94.93 111.58 123.17 124.16 URS in KWH Λ 0 (220286) 0 0 (732947 (214813) (15000)(8289) URS in Rs iii 0 (143737) 0 0 0 (695787) (239688) (18476) (10292) 3rd installment of Addl O&M charges (Bill date: 06th April 201 8752831 0 0 Pooled Energy Charges (Ps/KWh) 1.38 REBATABLE F 636652644 TOTAL PAYABLE (WR + SR) for the month 719773602 Pooled Capacity Charges (Ps/kWh) Less : Rebate Adj (Rs 3723) + Addl rebate @ 0.1% (Rs 564819 568542 0.73 NON-REBATABLE R: 83120958 Pooled Total Charges (Ps/kWh) 2.11 Total Bill 719773602 NET PAYABLE (Rs.) 719205060



FAX to:

N T P C LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 LC BILL RAISED IN THE MONTH OF July-13

Executive Engineer, Div-0832-2317810 /2313780

													CUSTOMER:	GC		-		
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
									APM:	APM:								
									2641976 N-APM:29536	1619115 RLNG: 0								
									Lq : 0	N-APM:								
	Energy scheduled (KWH)	122794876	3660300	16647616	8779547	7853949	3397037	6776	RLNG: 0	95153	12548181	6834439	0	0	0	0	50577788	
									APM : 229.9	APM : 259.8								
									N-APM : 310.3	239.0 RLNG : 0								
		404.00	404.00	100 10	101 50	404 50	404.00	070.00	Lq : 1073.7 RLNG:919.1	N-APM :	474.00	404.00	0.40 70	010.00	407.00	100.00	000 000	
	Energy Charges(Ps/KWH)	121.80	121.90	128.40	121.50	121.50	121.00	276.30	RLING . 919.1	304.8	174.90	164.60	246.70	210.00	167.00	198.20	206.800	-
																		AMT(Rs)
01.	Capacity Charges	68251846	5480254	13229213	5818527	8209510	5420077	3510353	7436403	9509933	17047451	8377316	0	0	0	0	30115801	182406684
02.a.	EnergyCharges	149564159	4461906	21375539	10667150	9542548	4110415	18722	6165553	4496487	21946769	11249487	0	0	0	0	104594866	348193601
02.b.	MOPA Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.	Incentive	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.a.	ED&Cess on APC	5145347	136703	1106638	557532	506643	156585				373830	220007						8203285
04.b.	ED&Cess on Sales	0	0	0	0	0	0				0	0						0
	Total (Main Bills) Rs.	222961352	10078863	35711390	17043209	18258701	9687077	3529075	13601956	14006420	39368050	19846810	0	0	0	0	134710667	538803570
05.	EC Rvsn / MOPA - May-13	(871516)	(27014)	2165378	1035462	932549	290813	0	12131	5505	148001	84500	0	0	0	0	0	3775809
06.	WRLDC Fees and charges - May-2013	137151	5251	26271	10229	8734	6305	6309	10681	10897	15483	8735	0	0	0	0	133047	379093
07.	FST-1 CC Rvsn (CERC order dtd 19.06.13)												(81)					(81)
08.	Interest on FST-1 CC Rvsn (Item 7)												(39)					(39)
09.	ECR Rvsn - Sipat-1/2										4973195	2040135						7013330
10.	Filing Chgs Adjustment			(6)	(4)	(4)												(14)
11.	Interest on Installments	666424	10390	103370	61649	7274			4	2	904	33773	618	141			183457	1068006
12.																		0
13.																		0
14.																	2	2
	Total supplimentary bill	(67941)	(11373)	2295013	1107336	948553	297118	6309	22816	16404	5137583	2167143	498	141	0	÷		12236106
15.	LC Bill (Gross) Rs.	222893411	10067490	38006403	18150545	19207254	9984195	3535384	13624772	14022824	44505633	22013953	498	141	0	0	135027173	551039676
16.																		
17.	Net LC Bill (Gross-Rebate)	222893411	10067490	38006403	18150545	19207254	9984195	3535384	13624772	14022824	44505633	22013953	498 141 0 0 135027173 55					
Detail	s of URS				0	1		n	1		1		-					0
i	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25	65.16	113.38	151.73	186.85	94.93	111.58	123.17	124.16						
ii	URS in KWH	0	0	0	0	0			0	0	0					RV - (Bill date		
iii	URS in Rs	0	0	0	0	0	0	0	0	0	0	0				es (Bill date: 00	oth April 201	
	Pooled Energy Charges (Ps/KWh)			REBATABL		556241917								ABLE (WR +				578028931
	Pooled Capacity Charges (Ps/kWh)			NON-REBA	TABLE R	21787014									i) + Addl reb	oate @ 0.1% (Rs 608049) E	
	Pooled Total Charges (Ps/kWh)	2.23		Total Bill		578028931							NET PAYAE	BLE (Rs.)				577415196



NTPCLIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 LC BILL RAISED IN THE MONTH OF Aug-13

FAX to: Executive Engineer, Div-0832-2317810 /2313780

												(CUSTOMER:	GO	A			
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
	Energy scheduled (KWH)	124495212	3435201	20447623	9278854	4895318	4535167	357222	Lq : RLNG:	APM: RLNG: 0 N- APM:	15194661	7904064	0	0	0	0	55156548	
	Energy Charges(Ps/KWH)	88.70	89.80	124.00	117.10	116.40	117.10	277.00	N-APM : 310.3 Lq : 1073.7 RLNG : 919.1	APM : 0 RLNG : 0 N-APM : 0	166.90	185.80	248.60	312.70	172.50	295.10	219.300	
																		AMT(Rs)
01.	Capacity Charges	69195994	5381853	15876399	6078813	6657543	6381889	4111600	4999825	10022977	18778603	9313679	0	0	v	0	32842573	189641748
02.a.	Energy Charges	110427253	3084810	25355053	10865538	5698150	5310681	989505	0	0	25359889	14685751	0	0	0	0	120958310	322734940
02.b.	MOPA Charges	0	0	0	•	0	0	0	0	0	0	0	0	0	•	-	0	0
03.	Incentive	0	0	0	v	0	0	0	0	0	0	0	0	0	0	0	0	0
04.a.	ED&Cess on APC	5084864	151571	1043848	550500	492462	213003				502395	257389						8296032
04.b.	ED&Cess on Sales	0	0	0	v	0	0				0	0						0
	Total (Main Bills) Rs.	184708111	8618234	42275300	17494851	12848155	11905573	5101105	4999825	10022977	44640887	24256819	0	0	0	0	153800883	520672720
05.	EC Rvsn / MOPA - June-13	5402975	161053	332952	166811	149225	61146	68	11531	0	(100386)	(27338)	0	0	0	0	(001010)	5803992
06.	WRLDC Fees and charges - June-2013	133489	5070	25515	9924	8475	6096	6376	10332	10543	15069	8473	0	0	0	0	133046	372408
07.																		0
08.	KG CC Rvsn (CERC - 01.08.2013)								(19119275)									(19119275)
09.	Interest KG CC Rvsn (Item 08)								(2146115)									(2146115)
10.	Filing Chgs Adjustment				4	4	(3)										2	7
11.	Interest on Installments	499818	7792	77528	46237	5455			3	1	678	25330	464	106			137593	801005
12.	EC Rvsn - Vin1/2/3/4			13417832	6268573	5487563	165760											25339728
13.																-		0
	SUPPLIMENTARY BILLS	6036282	173915	######################################	6491549	5650722	232999	6444	(21243524)	10544	(84639)	6465	464	106	0	0	(83404)	
15.	LC Bill (Gross) Rs.	190744393	8792149	56129127	23986400	18498877	12138572	5107549	(16243699)	10033521	44556248	24263284	464	106	0	0	153717479	531724470
16.									, , , , , , , , , , , , , , , , , , ,									
17.	Net LC Bill (Gross-Rebate)	190744393	8792149	56129127	23986400	18498877	12138572	5107549	(16243699)	10033521	44556248	24263284	464	106	0	0	153717479	531724470
Details o	of URS												Credit for URS scheduled by other SEBs					
i	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25	65.16	113.38	151.73	186.85	78.65	111.58	123.17	124.16				-		. ,
ii	URS in KWH	0	0	0	0	0			0	0	0	0	3rd installn	nent of Addl I	T+ECR+FEI	RV - (Bill date	: 06th June 2	18236424
iii	URS in Rs	0	0	0	0	0	0	0	0	0	0	0	5th installm	nent of Addl C	&M charge	s (Bill date: 06	th April 2013	8752831
	Pooled Energy Charges (Ps/KWh)	1.31		REBATAB	LE	539247020			•				TOTAL PAY	(ABLE (WR +	SR) for the	month		558691708
	Pooled Capacity Charges (Ps/kWh)	0.77		NON-REB	ATABLE F	19444688) + Addl reb	oate @ 0.1% (F	Rs 556242) B	
	Pooled Total Charges (Ps/kWh)	2.09		Total Bill		558691708							NET PAYA	BLE (Rs.)				558129328

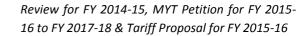


Executive Engineer, Div-3

FAX to:

NTPC LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 LC BILL RAISED IN THE MONTH OF SEPTEMBER 2013

REF:	REA/2013-14/8.0	DATED:	5-Sep-13											0832-2317810	/2313780			
Bill No	WR:12-13 : GOA	DATED:	6-Sep-13									C	USTOMER:	G	OA			
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
	Energy scheduled(KWH)	120260823	3854538	23569555	5903274	8392758	4410622	289939	APM: 1064576 N-APM: Lq: RLNG: APPM: 247.9	APM: RLNG: 0 N-APM:	12877278	7656478	0	0	0	0	46129199	
	Energy Charges(Ps/KWH)	86.20	85.10	127.80	120.20	120.60	121.10	281.10	N-APM:0	APM : 221.8 RLNG : 0	180.20	185.70	267.10	290.20	161.90	274.00	197.700	
																		AMT(Rs)
	Capacity Charges	66849521	5720026	16496518	3847064	8639376	6286100	5869984	5404881	5284983	19574048	9200168	0	0	0	-	27467153	180639822
	EnergyCharges	103664829	3280212	30121891	7095735	10121666	5341263	815019	2639084	0	23204855	14218080	0	0	0	0	91197426	291700060
02.b.	MOPA Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.	Incentive	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.a.	ED&Cess on APC	5058020	139566	1362344	618213	326155	302160				584107	290215						8680780
04.b.	ED&Cess on Sales	0	0	0	0	0	0				0	0	<u> </u>	-		-		0
	· · · · · ·	175572370	9139804	47980753	11561012	19087197	11929523	6685003	8043965	5284983	43363010	23708463	0	0	0	0		481020662
05.	EC Rvsn - July-13	0	0	0	0	0	0	0	0	-	75974	(7904)	0	0	0	0	0	68070
06.	RLDC Fees and charges - July - 2013	132534	4967	25238	9795	8364	5971	6058	10155	10362	14953	8363					133046	369806
07.	SPTPS-1 CC+EC Rvsn (CERC - 22.08.13)										34703753							34703753
08.	Interest on above mentioned Rvsn (Item-7)										3714347							3714347
09.	SPTPS-1 Filing Chgs & Publ Expenses		(2)	(6)		(9)					197239	(4)						197239
10.	Filing Chgs Adjustment	374863	(2)	(6) 58146	34678	(9) 4091			2	1	508	(4)	348	79			103195	(21) 600752
11. 12.	Interest on Installments	132535	4965	25233	9795	8357	5968	6039	10155	10361	14954	8360	340	79			103 193	236722
12.	WRLDC Fees and charges - August - 2013 JGP - Transportation Charges-July / Aug-13		4900	20200	9795	0001	0900	0039	10100	992966	14904	0300						992966
14.	JGP - Transponation Charges-July / Aug-15									332300							(2)	332300 (2)
14.	supplimentray bills	639932	15774	108611	54268	20803	11939	12097	20312	1013690	38721728	27812	348	79	0	0	236239	(2)
15.	LC Bill (Gross) Rs.	176212302	9155578	48089364	11615280	19108000	11941462	6697100	8064277	6298673	82084738		348	79	0	0	118900818	521904294
16.			0100010					0001100	0001211	0200010	0200-100	_0100210		15	, v	Ů		021001204
	Net LC Bill (Gross-Rebate)	176212302	9155578	48089364	11615280	19108000	11941462	6697100	8064277	6298673	82084738	23736275	348	79	0	0	118900818	521904294
	s of URS													Credit for U		(18054)		
_	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25	65.16	113.38	151.73	186.85	78.65	111.58	140.88	124.16	1			,	-	(
	URS in KWH	0	0	0	0	0	0	0	0			-	4th installr	nent of Addl	IT+ECR+FE	RV - (Bill date	: 06th June 2	18236424
	URS in Rs	0	0	0	0	0	0	0	0	```	0					· ·	6th April 2013	8752831
	Pooled Energy Charges (Ps/KWh)	1.24		REBATABL	E	523184674									+ SR) for the			548875495
	Pooled Capacity Charges (Ps/kWh			NON-REBA	TABLE F	25690821							Less : Add	I rebate @ 0	.1% (Rs 539	247) Bill Dtd 0	7.08.13	539247
	Pooled Total Charges (Ps/kWh)	2.02		Total Bill		548875495							NET PAYA	BLE (Rs.)				548336248





							NT	PC	LIMITE	D								
						WESTER	N REGION	HEADQU	ARTERS, M	UMBAI- 4	00093							
						LC BI	LL RAISE		NONTH OF	OCTOBE	R 2013					FAX to:	Executive	Engineer, Div-
REF:	REA/2013-14/9.0	DATED:	3-Oct-13															310 /2313780
Bill No	WR:13-14 : GOA	DATED:	5-Oct-13									C	USTOMER:	GC	DA			
SI.No	. PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
									APM: 2496637	APM:								
									2490037 N-	1335476								
									APM:394765	RLNG: 0 N-APM:								
	Energy scheduled (KWH)	142552491	3661912	17056062	8191414	6736458	4348409	335668	Lq : RLNG:	187711	12270439	7922736	0	0	0	0	57472208	
									HEHO.				-		-	-		
									APM : 260.7	APM : 249 RLNG : 0								
									N-APM:348.7 Lq:0	N-APM :								
	Energy Charges(Ps/KWH)	93.30	92.10	150.50	140.50	142.40	141.80	283.00	RLNG:0	341.5	178.80	178.70	356.80	255.80	148.20	241.50	227.400	
																		AMT(Rs)
01.	Capacity Charges	79233217	5480373	12423008	5337657	7572822	6143467	4391575	6736765	5723540	18247333	9050891	0	0	0	0	34221109	194561757
02.a.	Energy Charges	133001474	3372621	25669373	11508937	9592716	6166044	949940		3966368	21939545	14157929	0	0	-	-		368902027
02.b.	MOPACharges	0	0	0	0	0	0	0		0	0	0	0	0			0	0
03.	Incentive	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.a.	ED&Cess on APC	7460018	239081	1497135	374975	533106	280162				848627	491464						11724568
04.b.	ED&Cess on Sales	0	0	0	0	0	0				0	0						0
	Total (Main Bills) Rs.	219694709	9092075	39589516	17221569	17698644	12589673	5341515		9689908	41035505		0		- -	0	164912910	575188352
05.	Rvsn -August-13-Energy Chgs /Schedu		(57818)	0	0	0	0	0		0	25755	30626	0	0	0	0	(=: 0: : 0)	(1993479)
06.	RLDC Fees and charges - Sept-13	131266	4935	25019	9706	8294	5925	6007	10082	10287	14804	8294					133046	367665
07.	JGP CC Rvsn (CERC - 11.09.13)									(21307095)						-		(21307095)
08.	Interest on above mentioned Rvsn (Item-7)							1		(3062408)							6	(3062408)
09. 10.	Filing Chgs Adjustment	(9)			(9)						(9)						0	(27)
11.	Interest on Installments	241579	3766	37472	22348	2637			1	1	328	12243	224	51			66503	387153
12.	Water/Pollution Cess - KST / KHS-2	514772	0100	0/1/2	22010	2001					020	122.10	LL 1	01			00000	514772
13.	JGP - Transportation Charges-September-13									496483				1			1	496483
14.	ERLDC Charges Rvsn														(28)			(28)
	supllimentray bills	(906225)			32045	10931	5925	6007	88649	(23862732)	40878	51163	224	51	1 1		(77220)	
15.	LC Bill (Gross) Rs.	218788484	9042958	39652007	17253614	17709575	12595598	5347522	14710693	(14172824)	41076383	23751447	224	51	(28)	0	164835690	550591394
16.																		
17.	Net LC Bill (Gross-Rebate)	218788484	9042958	39652007	17253614	17709575	12595598	5347522	14710693	(14172824)	41076383	23751447	224	51	(· /		164835690	550591394
Detail	s of URS		404.00	05.05	05.40	440.00	454 70	400.05	70.05	400.40	440.00	404.40		Credit for U	RS schedul	ed by other S	EBs	(437772)
1 	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25 (400000)	65.16 0	113.38 0	151.73	186.85		100.13 (91182)	140.88 0	124.16	Eth inotelle	nant of Add			o . 06th l	18236424
11 111	URS in KWH URS in Rs	0	0	(400000) (261000)	0	0	0	0	. ,	(91182) (91301)	0					RV - (Bill dat es (Bill date:		
	Pooled Energy Charges (Ps/KWh)	Ŷ	0	REBATABL	•	555500813	0	0	(00471)	(31301)	0	0		YABLE (WR +				577142877
	Pooled Capacity Charges (Ps/kWh)			NON-REBA		21642064										185) Bill Dtd	06.09.13	523185
		2.13		Total Bill		577142877							NET PAYA					576619692
L		-												,,				

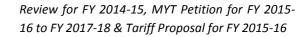


						N	ТРС	LIMITE	E D									
					W	ESTERN REG	ON HEADQU	JARTERS, I	NUMBAI- 4000	093								
							LC BILL RA	AISED IN TH	E MONTH OF	NOVEMBER	R 2013					FAX to:	Executive Er	naineer. Div-3
REF:	REA/2013-14/10.0	DATED:	5-Nov-13														0832-231781	0 ,
Bill No.	WR:13-14 : GOA		6-Nov-13									CUS	TOMER:	G	OA			
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	-	-	-	KhSTPS 2	RSTPS	
0			1.011 0 0		1011.02	1011 00	1011.04	morror	APM:			0117412			10110			
									1588522	APM:								
									N-	1403480								
									APM:220540	RLNG:								
									Lq :	478157								
									RLNG:	N-APM:								
	Energy scheduled(KWH)	142.091.616	3,853,421	22,637,627	9,053,899	8,270,314	4,702,475	88,268	-	92623	15370424	7870911	0	0	0	0	52331420	
		142,001,010	0,000,421	22,001,021	3,000,000	0,270,014	4,702,470	00,200	APINI : 200.0	APM :	10070424	1010311	0	0	Ŭ.	0	02001420	
	Energy Charges(Ps/KWH)	90	87	145	137	137	137	275	N-APM :	2/0.5	151.70	149.80	315.50	282.60	100.70	266.70	210.000	
																		AMT(Rs)
01.	Capacity Charges	78,985,356	5.718.446	15.490.866	5,986,137	8,526,188	6.506.032	7,291,534	6804136	9038208	20980921	9100956	0	0	0	0	31160340	205589120
01. 02.a.	Energy Charges	128,166,638	3,367,890	32,847,197	12,412,896	11,338,600	6,442,391	243,002	6494621	8202213	23316933	11790625	0	0	0	0		354518988
02.a. 02.b.		120, 100,030	3,307,090	52,047,197	12,412,090	11,330,000	0,442,391	243,002	0494021	0202213	23310933	0	0	0	0	0		0
02.0.	Incentive	-	-	-	-		-		0	0	0	0	0	0	0	0	÷	0
03. 04.a.	ED&Cess on APC	7,483,051	192.226	1.056.960	507.620	417.457	269.470		0	0	737133	484644	0	0	0	0	0	11148561
04.b.	ED&Cess on Sales	7,400,001	132,220	1,000,000	507,020	417,437	203,470				10/100	404044						0
04.0.	Total (Main Bills) Rs.	214,635,045	9,278,562	49,395,023	18,906,653	20,282,245	13,217,893	7,534,536	13298757	17240421	45034987	21376225	0	0	0	0	141056322	571256669
05.	Rvsn -September-13 MOPA		-						9359	10827	0	0	0	0	0	-		20186
06.	RLDC Fees and charges-October-13	130.473	4,917	24.853	9,574	8,161	5.907	5.997	10049	10254	14740	8120	0	0	0	-	÷	366091
07.	ECR Rvsn-(Nov-12 - Sept-13)	55,313,381	1,273,234	9,951,039	4,263,695	3,745,297	1,158,433	-,			7189097	3907362					(6141735)	80659803
08.	Filing Chgs Adjustment	(240)	(2)	(61)	(88)	(88)	, ,			1	(9)	(123)						(611)
09.	Interest on Installments	133.285	2,078	20,674	12,330	1,455			1		181	6755	124	28			36691	213602
10.	JGP-Transportation Charges-October-	-13	,		1					496483								496483
11.																		0
12.																		0
13.																		0
14.																		0
	Supplimentary Bills	55,576,899	1,280,227	9,996,505	4,285,511	3,754,825	1,164,340	5,997	19409	517564	7204009	3922114	124	28	0	0	(5971998)	
15.	LC Bill (Gross) Rs.	270,211,944	10,558,789	59,391,528	23,192,164	24,037,070	14,382,233	7,540,533	13318166	17757985	52238996	25298339	124	28	0	0	135084324	653012223
16.																		
17.	Net LC Bill (Gross-Rebate)	270,211,944	10,558,789	59,391,528	23,192,164	24,037,070	14,382,233	7,540,533	13318166	17757985	52238996	25298339	124	28	0	0	135084324	653012223
Details o	of URS	-	•	•	-		•		•			•		Credit fo	or URS sc	heduled b	y other SEBs	(9637)
i	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25	65.16	113.38	151.73	186.85	78.65	100.13	140.88	124.16	1				-	, . ,
ii	URS in KWH	0	0	0	0	0	0	0	(12253)	0	0	0	6th insta	llment of	f Addi IT+	ECR+FER	V - (Bill date	18236424
iii	URS in Rs	0	0	0	0	0	0	0	(9637)	0	0	0	8th insta	llment of	f Addl O8	M charges	s (Bill date: 06	8752831
	Pooled Energy Charges (Ps/KWh)	1.31		REBATABLE	Rs.	656124151							TOTAL F	PAYABLE	(WR + S	R) for the	month	679991841
	Pooled Capacity Charges (Ps/kWh)	0.76		NON-REBATA	BLE Rs.	23867690							Less : A	ddl rebat	e @ 0.1%	(Rs 5555	01) Bill Dtd 0	555501
		2.07		Total Bill	Rs	679991841							NET PAY	(ABLE (I	Rs.)			679436340
														For & on	behalf of	NTPC Ltd.		



NTPC LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 LC BILL RAISED IN THE MONTH OF DECEMBER 2013

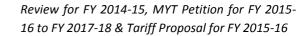
									NONTH OF							FAX to:	Executive Er	ngineer, Div-3
REF:	REA/2013-14/11.0	DATED:	4-Dec-13														7810 /2313780	.
	WR:13-14 : GOA		6-Dec-13									(CUSTOMER:	GO	Δ			
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
	Energy scheduled(KWH)	145,587,085							APM: 1829239 N- APM:21931 6 Lq : RLNG: 44977	APM: 1763625 RLNG: 81260 N-APM: 32949	10,058,309	4,331,025		-	-		64,439,829	
	Energy Charges(Ps/KWH)	89	87	131	124	124	124	243	254.5 N-APM :	APM : 245.7	154	153	303	287	95	271	201	
																		AMT(Rs)
01.	Capacity Charges	80919741	5551299	15299794	5893726	8066144	6317942		6870094	8832338	20,696,928	8,583,269	-	-	-	-	38,369,761	
02.a.	Energy Charges	130154854	3277591	25391915	10531541	9513993	5664699	346117	5861984	5379523	15,479,738	6,630,799	-	-	-	-	129,459,616	347692370
02.b.	MOPA Charges	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	0
03.	Incentive	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	0
04.a.	ED&Cess on APC	7748337	210129	1361023	544340	497229	282723				959,412	534,632						12137825
04.b.	ED&Cess on Sales	0	0	0	0	0	0				-	-			1			0
	Total (Main Bills) Rs.	218822932	9039019	42052732	16969607	18077366	12265364	7377134	12732078	14211861	37,136,078	15,748,700	-	-	-	-	167,829,377	572262248
05.	POCM and ECR Rvsn - October-13	0	0	0	0	0	0	0	221156	324464	30,741	15,742	-	-	-	-	-	592103
06.	RLDC Fees and charges-November-13	112309	4414	21642	8373	7133	5309	4704	8937	9118	12,716	7.093		1			133,046	334794
07.	ECR Rvsn KST-1 n 3	(272721)	6832	21012	0010	1100	0000	1101	0001	0110	12,110	1,000					100,010	(265889)
08.	Filing Chgs Adjustment	(2121)	(2)	(55)	(79)	(79)						(106)						(200003)
00.		(213)	(2)	(55)	(13)	(13)						(100)						(334)
10.	ICD Transa a tation Channes Navambas (2								496483								496483
	JGP-Transportation Charges-November-1	3								490403								490483
11.	Water Cess - KHS-2									<u> </u>		L		<u> </u>				0
12.								<u> </u>										0
13.																	<u> </u>	0
14.																	4	0
	Supplimentary bills	(160625)	11244	21587	8294	7054	5309	4704	230093	830065	43,457	22,729		-	-	-	133,046	
15.	LC Bill (Gross) Rs.	218662307	9050263	42074319	16977901	18084420	12270673	7381838	12962171	15041926	37,179,535	15,771,429		-	-	-	167,962,423	573419205
16.																		
17.	Net LC Bill (Gross-Rebate)	218662307	9050263	42074319	16977901	18084420	12270673	7381838	12962171	15041926	37,179,535	15,771,429	•		-		167,962,423	573419205
Details	s of URS													Credit for UR	S schedule	ed by other S	EBs	(1265337)
i ii	Rate of FC for URS@ (Ps/Kwh) URS in KWH	55.58	161.62	65.25 (432500)	65.16 (106088)	113.38	151.73 (394378)	186.85 0	78.65 (28421)	100.13 (27337)	140.88 (120000)	124.16 (77990)						
1"	URS in Rs	0	0	(432300) (282206)	(100000)	0	(598390)	0	(22353)	(27373)	(120000)	· · · · ·	Oth installe	ant of Add	8M charac	e (Bill data: ()6th April 2013	8752831
1:::		0	0	(202200)	(09127)	v	(090090)	0	(22353)	(21313)	(109000)	(90632)					Jour April 2013	
iii		4 00		DEDATAD		570024740							TOTAL DAY		CD) fam #			
	Pooled Energy Charges (Ps/KWh)	1.28		REBATABLE		570034743							-	YABLE (WR +			00.44.40	580906699
	Pooled Energy Charges (Ps/KWh) Pooled Capacity Charges (Ps/kWh)	0.78		NON-REBAT		10871956							Less : Add	rebate @ 0.1			06.11.13	656124
	Pooled Energy Charges (Ps/KWh) Pooled Capacity Charges (Ps/kWh)												-	rebate @ 0.1	% (Rs 656	124) Bill Dtd	06.11.13	





N T P C LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093

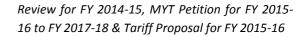
									MONTH OF							FAX to	Executive En	aineer Div-3
REF:	REA/2013-14/12.0		6-Jan-14			20 5.				0/ 110/ 111	2011						7810 /2313780	gillool, Div o
Bill No.	WR:13-14 : GOA		8-Jan-14									C	JSTOMER:	GC	NA	0002-201	1010/2010/00	
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
31.NO.	PARTICULARS	NJIFJ	NOTFO 5	VSIFSI	VOIFOZ	VOIFOD	V01F04	WIGTFOT	APM:		SIFAT	JIFAT-Z	FOIFO	KIISTFS I	13153	KIISTFS Z	NJIF3	
									3939257	APM:								
									N-	4593090								
	Energy scheduled(KWH)	138,869,868	3,483,420	#######	9,260,232	8,195,939	3,994,763	1,041,396	APM:569502	RLNG: 950	10,224,205	6,754,107	-	-	-	-	68,590,687	
									Lq : 0	N-APM:								
									RLNG:	659817								
									N-APM :	APM :								
	Energy Charges(Ps/KWH)	92	91	188	178	177	178	265	345.5	250.8	129	140	284	296	151	279	217	
																		AMT(Rs)
01.	Capacity Charges	77186191	5420872	16262789	6010975	8462852	5970818	6122066	7132547	9312503	21655736	9202368	0	0	0	0	40842013	213581730
02.a.	Energy Charges	127065929	3180362	35879127	16446172	14539596	7102689	2754492	12146669	13770023	13168776	9448996	0	0	0	0	148978972	404481803
02.b.	MOPA Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.	Incentive	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.a.	ED&Cess on APC	8537032	219902	1116616	491207	443747	264210				559138	258522						11890374
04.b.	ED&Cess on Sales	0	0	0	0	0	0				0	0						0
	Total (Main Bills) Rs.	212789152	8821136	53258532	22948354	23446195	13337717	8876558	19279216	23082526	35383650	18909886	0	0	0	0	189820985	629953907
05.	POCM and ECR Rvsn - November-1	(291174)	(7500)	0	0	0	0	0	34782	56665	(50292)	(25986)	0	0	0	0	0	(283505)
06.	RLDC Fees and charges-December-1	112269	4422	21627	8344	7097	5309	5313	8937	9118	12705	7051					122517	324709
07.	VS-2 CC Rvsn (CERC - 14.11.13)				(2034799)													(2034799)
08.	Interest on CC Rvsn (Item-7)				(696330)													(696330)
09.	JGP-Transportation Charges-December				496483													496483
10.	Filing Chgs Adjustment	(203)	2	(55)	(84)	(88)					(9)	(114)						(551)
11.																		
12.																		
13.	Water Cess - VS-1 / JGP			152998					-	4551				-				157549
14.													-	_	_		1	1
	supplimenatry bills	(179108)	(3076)	174570	(2226386)	7009	5309	5313	43719	70334	(37596)	(19049)	0	0	0	0	122518	
15.	LC Bill (Gross) Rs.	212610044	8818060	53433102	20721968	23453204	13343026	8881871	19322935	23152860	35346054	18890837	0	0	0	0	189943503	627917464
16.														-				
17.	Net LC Bill (Gross-Rebate)	212610044	8818060	53433102	20721968	23453204	13343026	8881871	19322935	23152860	35346054	18890837	0	•	0	•	189943503	627917464
Details o														Credit for U	RS schedul	ed by other SI	EBs	(1128575)
li 	Rate of FC for URS@ (Ps/Kwh)	55.58		65.25	64.94	113.38	151.73	186.85	78.65	100.13	140.88	124.16						
ii	URS in KWH	0	0	(252500)	0	0	0	0	(22520)	(31490)	(573561)	(85811)						
iii	URS in Rs	0	0	(164756)	0	0	0	0	(17712)	(31531)	(808033)	(106543)				<u> </u>	: 06th April 20	
	Pooled Energy Charges (Ps/KWh)			REBATABL		625319255							-	YABLE (WR				635541720
	Pooled Capacity Charges (Ps/kWh)			NON-REBAT		10222465									.1% (Rs 57	0035) Bill Dtd	06.12.13	570035
	Pooled Total Charges (Ps/kWh)	2.21		Total Bill		635541720							NET PAYA	· /				634971685
														For & on bel	half of NTPC	CLtd.		





N T P C LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093

									MONTH OF						1	FAX to:	Executive E	naineer Div
REF:	REA/2013-14/1.0	DATED:	5-Feb-14			20 812				. EBI(G/(7810 /2313780	
	. WR:13-14 : GOA		6-Feb-14									c	USTOMER:	GO	A			
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
0	Energy scheduled(KWH)	147,663,434		17,596,940		8,363,343		2,004,088	APM: 3043768 N- APM:34421 5 Lq : 0 RLNG: 155177	APM: 3806728 RLNG: 244369 N-APM: 200381	10,857,413	######	-	-	-	-	62,176,538	
	Energy Charges(Ps/KWH)	91	90	141	134	133	133	271	255.9 N-APM :	APM : 245.4	147	154	303	280	157	273	240	
		91	30	141	134	135	135	211	1 AL WI.		147	104		203		2/3	240	AMT(Rs)
01.	Capacity Charges	82074156	5700836	16452182	6021865	8557642	6570152	7363399	6221573	9479730	21705936	9194635	0	0	0	0	37022268	216364374
02.a.	Energy Charges	133783071	3440836	24846879	12378479	11156700	6385222	5439095	10836665	12879798	15927825	10071673	0	0	0	0	149161515	
02.b.	MOPA Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.	Incentive	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.a.	ED&Cess on APC	8286707	207864	1109671	538147	476297	232151				512812	355323						11718972
04.b.	ED&Cess on Sales	0	0	0	0	0	0				0	0						0
	Total (Main Bills) Rs.	224143934	9349536	42408732	18938491	20190639	13187525	12802494	17058238	22359528	38146573	19621631	0	0	0	0	186183783	624391104
05.	POCM and ECR Rvsn - December-1	(555479)	(13933)	0	0	0	0	101016	18381	5981	122691	87803	0	0	0	0	1646177	1412637
06.	RLDC Fees and Charges-January-14	107128	4282	20724	8024	6831	5147	5139	8639	8814	12142	6776		Ŭ		, v	122517	316163
07.	JGP-Transportation Charges-January-									496483								496483
08.	Addl Income Tax(2008-09) & Refund (12919593		3914288						100100			53140	22232			8459285	
09.	Rvsn REA - Nov -13 dtd 23.01.14	12010000		1	36	33				292		(4)	00110	22202		1	0.00200	358
10.	Filing Chgs Adjustment	(185)	(2)	(55)	(66)	(66)						(92)						(466)
11.		(100)	(=)	(00)	(00)	(00)						(02)				1	1	(100)
12.	ECR Rvsn - VST - Sept 2013			(767523)	(344040)	(289668)	(182633)									1	1	(1583864)
12.	Water pollution Cess-KS/SP/MS/KH-2/RST	271455	5330	(. 0. 020)	(0.1010)	(200000)	(102000)	565			38196	23495					70212	409253
14.		2	0000									20.00					(10)	
	Total supplimentary bills	12742512	(4323)	3167435	(336046)	(282870)	(177486)	106720	27020	511570	173029	117978	53140	22232	0	0	10298181	(10)
15.	LC Bill (Gross) Rs.	236886446	9345213	45576167	18602445	19907769	(,	12909214	17085258	22871098	38319602	19739609	53140	22232	0	0		650810196
16.		_0000040	00-102-10	40010101		10001100		.2000214	11000200		00010002		00,40	LLUL	•	,		
17.	Net LC Bill (Gross-Rebate)	236886446	9345213	45576167	18602445	19907769	13010039	12909214	17085258	22871098	38319602	19739609	53140	22232	n	0	196481964	650810196
	s of URS	_0000040	00-102-10	10010101		10001100		.2000214	11000200		00010002		00140		RS schod	uled by other S		(1848033)
i	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25	64.94	113.38	151.73	186.85	78.65	100.13	140.88	124.16			to soneut	is a by ould be	,203	(1040033)
lii	URS in KWH	0	01.02	(922135)		113.30	0	(14268)	18.05	00.13	(806337)	(67423)						
 iii	URS in Rs	0	0	(601693)		0	0	(14266)	0	0	(1135968)	```	11th Install	mont of Add	OSM cho	race (Bill date	06th April 3	8752831
		0	•	(/		0 622066663	1 0	(20060)	0	0	(1135968)	(03/12)				arges (Bill date	: votn April 2	
	Pooled Energy Charges (Ps/KWh)			REBATABLE									-	(ABLE (WR +				657714994
	Dealed Canaaity Charges (Dalling)	0 77		NON DEDAT		25640224								rehate @ ^		16240 \ D:11 D4-1	00 04 40	
	Pooled Capacity Charges (Ps/kWh)			NON-REBATA		35648331									1% (Rs 62	25319) Bill Dtd	08.01.13	625319
		0.77 2.18		NON-REBATA		35648331 657714994							NET PAYAE				08.01.13	625319 657089675





N T P C LIMITED WESTERN REGION HEADQUARTERS, MUMBAI-400093 LC BILL RAISED IN THE MONTH OF MARCH 2014

					WLC			RAISED IN THE		MARCH 201	4					FAX to:	Executive Eng	gineer, Div-3
REF:	REA/2013-14/2.0	DATED:	5-Mar-14													0832-231	7810 /2313780	
Bill No.	WR:13-14 : GOA	DATED:	6-Mar-14									C	USTOMER:	G	DA			
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
	Energy scheduled(KWH)	######################################	3,483,039	16,583,443	8,611,289	7,470,439	4,250,178	2,220,058	APM: 1815884 N- APM:100551 RLNG: 13440	APM: 488884 RLNG: 406616 N-APM: 7685	8,512,209	5,878,819	-	-	-	-	62,712,477	
	Energy Charges(Ps/KWH)	91	90	127	120	120	120	297	N-APM : 345.5	APM : 230.2	118	126	295	292	160	275	198	
																		AMT(Rs)
01.	Capacity Charges	75661913	5167817	15001608	5592605	7681346	5878445	7077074	4984833	8434200	19110775	8308146	0	0	0	0	38117647	201016409
02.a.	Energy Charges	123739368	3134735	21127306	10350769	8979468	5108714	6602452	5162202	5916803	10069943	7407312	0	0	0	0	123919855	331518927
02.b.	MOPA Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.	Incentive	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.a.	ED&Cess on APC	8606771	223334	1074776	566326	510812	292349				533140	337751						12145259
04.b.	ED&Cess on Sales	0	0	0	0	0	0				0	0						0
	Total (Main Bills) Rs.	208008052	8525886	37203690	16509700	17171626	11279508	13679526	10147035	14351003	29713858	16053209	0	0	0	0	162037502	544680595
05.	POCM and ECR Rvsn - January-14	295327	3832	0	0	0	0	539100	37645	38390	152004	97910	0	0	0	0	1181354	2345562
06.	RLDC Fees and Charges-February-14	107090	4284	20731	8030	6838	5148	5148	8635	8810	12120	6785	0	0	0	0	121947	315566
07.	JGP-Transportation Charges-February-14									496483								496483
08.	ULDC Charges-(Apr-09 to Dec-13)	3759078	42651	652216	238948	203920	10624	10099	180193	183997	97033	213384						5592143
09.	Water Pollution Cess Adjustment	(31)									(2)	(16)					144933	144884
10.	Filing Chgs Adjustment	(129)		(33)	(48)	(48)					(9)	(70)						(337)
11.																		
12.	RST CC Rvsn - CERC dtd 26.02.2014																(14303921)	(14303921)
13.	Interest on CC Rvsn mentioned above(Item 12)																(5660391)	(5660391)
14.																	2	2
	Total supplimentary bills	4161335	50767	672914	246930	210710	15772	554347	226473		261146	317993	0	•	-	ŗ	(18516076)	
15.	LC Bill (Gross) Rs.	212169387	8576653	37876604	16756630	17382336	11295280	14233873	10373508	15078683	29975004	16371202	0	0	0	0	143521426	533610586
16.																		
17.	Net LC Bill (Gross-Rebate)	212169387	8576653	37876604	16756630	17382336	11295280	14233873	10373508	15078683	29975004	16371202	0	•	0	0	143521426	
Details o														Credit for	JRS sched	uled by othe	er SEBs	(934659)
i	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25	64.94	113.38	151.73	186.85	78.65	100.13	140.88	124.16						
ii	URS in KWH	0	0	0	0	0	(150400)	(19650)	0	0	(447857)	(31250)						
iii	URS in Rs	0	0	0	0	0	(228202)	(36716)	0	0	(630941)	(38800)	12th Instal	lment of Ac	ldl O&M ch	arges (Bill d	late: 06th April	8752831
	Pooled Energy Charges (Ps/KWh)	1.28		REBATABLE	Rs.	530141857							TOTAL PA	YABLE (WF	+ SR) for	the month		541428758
	Pooled Capacity Charges (Ps/kWh)	0.78		NON-REBATA	BLE Rs.	11286901												
	Pooled Total Charges (Ps/kWh)	2.06		Total Bill	Rs.	541428758							NET PAYA	BLE (Rs.)				541428758
														For & on b	ehalf of NTF	PC Ltd.		



						WESTED			rs, mumbai	400002								
						WESTERI			E MONTH OF		4					EAX to:	Executive Eng	ineer Div-3
REE	REA/2013-14/3.0		4-Apr-14								+						17810 /2313780	
	WR:13-14 : GOA		7-Apr-14									CUS	STOMER:	G	DA	0002 20	11010/2010/00	
SI.No		KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2				KhSTPS 2	RSTPS	
••									APM:			0.1711 2						
	Energy scheduled(KWH)	141,895,241	3.770.731	24,166,426	8,463,646	8,383,723	5,481,900	673,160	1643785 N-	APM: 2067331 RLNG:	14,244,519	7,770,680	-			-	69,922,667	
		,,	-,,	_ ,,,.	-,,	-,,	-,,	,	APM:618111 Lq : 0 RLNG:	N-APM: 195963		.,,					,,	
	Energy Charges(Ps/KWH)	92	91	138	130	130	130	308	APM : 256.9 N-APM : 344.2	APM : 245.5 RLNG :	153	158	299	312	169	295	221	
		52	51	100	100	100	100	000	-	1172 N-APM :	100	100	233	012	103	233	221	
																		AMT(Rs)
01.	Capacity Charges	78,867,972		16,573,321	5,496,431	8,568,276	7,676,556	8,031,176	6739575		21,507,921	9,182,479	-	-	-	-	42,499,912	
02.a.	Energy Charges	130,117,936	3,420,053	33,253,002	10,985,813	10,898,840	7,120,988	2,074,006	6350422	5738633	21,794,114	12,254,362	-	-	-	-	154,808,785	398,816,954
02.b.	MOPA Charges	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-
03.	Incentive	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-
04.a.	ED&Cess on APC	7,678,871	196,477	955,384	496,102	430,377	244,856				426,259	332,023						10,760,349
04.b.	ED&Cess on Sales	-	-	-	-	-	-				-	-						-
	Total (Main Bills) Rs.	216,664,779	9,269,953	50,781,707	16,978,346	19,897,493	15,042,400	10,105,182	13089997	14888526	43,728,294	21,768,864	-	-	-	-	197,308,697	629,524,238
05.	POCM and ECR Rvsn - February-14	(272,253)	(3,483)	(182,417)	(86,113)	(74,705)	(46,752)	-	123927	0	(51,073)	(41,152)	-	-	-	-	188,137	(445,884)
06.	RLDC Fees and Charges-March-14	105,120	4,200	20,335	7,881	6,703	5,482	5,220	8466	8637	11,911	6,668	-	-	-	-	120,603	311,226
07.	JGP-Transportation Charges-March-14	1								496483								496,483
08. 09.	ULDC Charges-(Apr-09 to Dec-13)	(00.407.400)	(567,020)	2,346,966	703,371	075 457	(400 704)	(11,980,215)			(0.507.050)	947,739	4,824	990	1,618		0.450.047	7,432
09. 10.	Annual SFC & Availability Adjustment	(23,127,498)	(567,020) 59,799	2,346,966 3,634,867	1,497,353	375,157 1.405.321	(198,781) 862,429	(11,980,215)			(3,567,652) 338,731	947,739					9,152,347	(25,915,586)
10.	Annual adjustment of energy charges Water Pollution Cess Adjustment	2,298,661	59,799	3,034,807	1,497,353	1,405,321	862,429				338,731	(12)					1,712,240	11,988,931
11. 12.	Filing Chgs Adjustment	(29)		(33)	(40)	(44)						(12)						(41)
12.	Water Pollution Cess	(120)		(33)	(40)	(44)						(53)						(290)
13.	Water F Olidion Cess																(9)	- (9)
	Total supplimenatry bills	(20,996,119)	(506,504)	5,819,718	2,122,452	1,712,432	622,378	(11,974,995)	132393	505120	(3,268,083)	1,092,720	4,824	990	1,618	_	(³⁾ 11,173,318	(3)
15.	LC Bill (Gross) Rs.	(20,990,119)		56,601,425	, ,		15,664,778	(1,869,813)	1322393	15393646	40,460,211	, ,	4,824	990	1,618		, ,	615,966,500
15. 16.		133,000,000	0,703,449	30,001,423	13,100,790	21,003,323	13,004,770	(1,009,013)	13222390	13333040	40,400,∠11	£2,001,J04	4,024	590	1,010	-	200,402,015	013,900,300
10.	Net LC Bill (Gross-Rebate)	195,668,660	8 763 449	56 601 425	19 100 798	21 609 925	15 664 778	(1,869,813)	13222300	15393646	40,460,211	22 861 584	4,824	990	1,618	<u> </u>	208 482 015	615,966,500
	s of URS	133,000,000	0,700,445	30,001,423	13,100,730	21,003,325	13,004,770	(1,003,013)	10222030	10000040	40,400,211	22,001,004	4,024			- adulad by	other SEBs	(46647)
i ii	Rate of FC for URS@ (Ps/Kwh) URS in KWH	56 -	162 -	65 (45,000)	65 -	113 -	176 -	196 -	78.65 (21976)		140.88 0	124.16 0		Credit ID		leadled by	oulei SEBS	(40047)
iii	URS in Rs	-	-	(29,363)	<u> </u>	-	-	-	(17284)	0	0	0	TOTAL		44D - 25	N 6	0	045040050
	Pooled Energy Charges (Ps/KWh)			REBATABLE		605199050										R) for the m		615919853
	Pooled Capacity Charges (Ps/kWh)	0.76 2.14		NON-REBAT											-	(RS 530142) Bill dtd. 06.03	530142 615389711
	Pooled Total Charges (Ps/kWh)	2.14		Total Bill	ĸ	615919853								ABLE (R	,			015369/11



SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks
		(Kwh)		
1	2	3	4	5
	M/sRGPPL			
1	April'2013	7,265,302	30,657,289	Bill for April'13
				ED & tax for period Jan'13 to
				March'13
			86,552	filling fee 2013-14
2	May'2013	3,918,055	20,896,692	Bill for May'13
3	June'2013	1,613,964	15,200,430	Bill for June'13
				shipping charges for Gas April'13
			4,117,879	&May'13
4	July'2013	1,141,388	14,117,380	Bill for July'13
5	August'2013	725	18,783,183	Bill for August'13
6	September'2013	-	17,932,387	Bill for September'13
		-	195,925	ED & tax period April'13 to Aug'13
				Energy charge revision for the period
7	October'2013	-	(782,530)	01/04/2012 to 31/03/2013
		-	22,003,890	Bill for October'2013
8	November'2013	-	19,946,894	Bill for November'2013
		-	31,958	supplimenatry bill for ED & tax
9	December'2013		18,643,560	Bill for Dec'13
10	January'2014		17,714,437	Bill for Jan'14
11	February'2014		16,944,492	Bill for Feb'14
12	March'2014		1,663,097	Bill for March'14
	Total	13,939,434	218,163,942	

Statement of Power Purchased Expenditure during the year 2013-14 RGPPL



SR.	Name of the	Units	Amount	Remarks
No	Supplier/Agency	Purchased	Amount	Remarks
1	2	(Kwh) 3	4	5
	M/s NPCIL Tarapur, Than	e		
1	April'2013	2,758,710	7,825,357	
			9,503	reimbursement of fees April'13
2	May'2013	4,060,868	11,536,743	
		.,,	9,217	reimbursement of fees May'13
			308,181	water cess Nov'12,Dec'12&jan'13
3	June'2013	7,810,969	22,273,759	
		.,	8,944	reimbursement of fees June'13
			0,011	adjustment charge for ROE for
			2,690,503	2012-13
4	July'2013	8,419,755	24,018,609	Energy bill July'13
5	August'2013	7,926,652	22,603,641	Energy bill
		, , ,	8,837	reimbursement of feesAugust
			195,284	Cess feb'13, mar'13
				heavy water lease rate change
6	September'2013	4,937,143		Energy bill
		, , ,	8,762	reimbursement of fees sep13
			(14,596)	heavy water make up charges
			(7,125)	tarriff revision
7	October'2013	8,170,238	23,294,526	Energy bill
			8,732	reimbursement of fees Oct'13
			232,756	cess april'13 to june'13
8	November'2013	7,873,400	22,447,851	Energy bill
			7,640	reimbursement of fees Nov'13
9	December'2013	7,293,057	20,793,235	Energy bill
			7,641	reimbursement of fees dec'13
			228,073	cess july'13 to august'13
10	January'2014	7,346,336	20,945,139	Energy bill
			7,339	reimbursement of fees January'14
11	February'2014	7,750,248	22,096,732	Energy bill
			7,335	reimbursement of fees feb'14
12	March'2014	7,887,533	22,495,342	Energy bill
	Total	82 234 000	236 401 620	
	Total	82,234,909	236,401,620	l



	•			
SR.	Name of the	Units Purchased	Amount	Remarks
No	Supplier/Agency		Anount	Ternaix5
		(Kwh)		
1	2	3	4	5
	M/s NPCIL Kakrapar, S	urat		
1	April'2013	10,084,626	23,799,717	
2	May'2013	10,169,601	24,005,343	
3	June'2013	8,326,272	19,779,059	
4			44,159	self insurance fund 1.5ps/kwh for hot zone units.
5			1,943,294	adjustment charge for ROE for 2012-13
6	Luk/2012	9,365,689	22.251.040	Energy bill for the month lub/12
0	July'2013	9,303,009	22,251,940	Energy bill for the month July'13 supplimentary bill due to revision in HW make up
			11,432	charges
			,	
7	August'2013	10,392,369	24,662,131	Energy bill
				heavy water lease rate change
		40.045.007	(377,382)	
8	September'2013	10,045,387	23,838,708	Energy bill
			90,022	reimbursement of RLDC charges.
			78,111	water cess 2012-13
9	October'2013	10,329,041	24,511,847	Energy bill
10	November'2013	9,745,090	23,126,073	Energy bill
11	December'2013	10,494,950	24,905,566	Energy bill
			795,553	supplimentary bill revision in rea Nov'13
10	10044	40.470.500	,	Enorgyhill
12	January'2014	10,472,526	24,852,351	Energy bill
13	February'2014	9,464,945	22,461,261	Energy bill
14	March'2014	9,425,534	22,583,321	Energy bill
	Total	118,316,030	283,362,506	

Statement of Power Purchased Expenditure during the year 2013-14 NPCIL KAPS



SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks
		(Kwh)		
1	2	3	4	5
	M/s GEPL Amona/ptc			
1	April'2013	2,267,879	5,297,693	
2	May'2013	1,909,151	4,420,974	
3	June'2013	2,033,135	4,771,511	
4	July'2013	1,259,420	2,238,455	
5	August'2013	1,678,900	3,843,025	
6	September'2013	2,637,110	6,003,687	
7	October'2013	5,479,573	12,729,413	
8	November'2013	10,747,190	25,992,756	
9	December'2013	10,922,150	26,430,021	
10	January'2014	10,632,530	25,735,565	
11	February'2014	8,439,270	20,506,950	
12	March'2014	9,646,820	23,212,484	

Statement of Power Purchased Expenditure during the year 2013-14 Goa Energy Pvt Ltd

Statement of Power Purchased Expenditure during the year 2013-14 - Mittal processors

Total

67,653,128 161,182,534

SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks
		(Kwh)		
	M/s Mittal processors			
1	April'2013			
2	May'2013			
3	June'2013			
4	July'2013		2,293,776	open access & trading Margin
5	August'2013		2,565,992	open access & trading Margin
6	September'2013		248,816	open access & trading Margin
7	October'2013		4,568,187	open access & trading Margin
8	November'2013			
9	December'2013			
10	January'2014			
11	February'2014			
12	March'2014	_	-	
	Total	-	9,676,771	



Statement of Power Purchased Expenditure during the year 2013-14 - M/s NVVNL, New Delhi

SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks
		(Kwh)		
1	2	3	4	
	M/s NVVN New			
1	April'2013			
2	May'2013			
3	June'2013			
4	July'2013			
5	August'2013			
6	September'2013			
7	October'2013			
8	November'2013			
9	December'2013			
10	January'2014			
11	February'2014			
12	March'2014	-	361,884	open access & trading Margin
	Total	-	361,884	

STATEMENT SHOWING THE DETAILS OF UNITS DELIVERED BY M/s RIL AMOUNT BILL/PAID BY GOG AND THE AVERAGE COST OF THE UNIT PER MONTH / YEAR

Month / Year	DEL ENERGY	Amount	Average / Unit
Apr-13	10,272,000	133,243,272	12.97
May-13	10,608,000	130,980,388	12.39
Jun-13	7,725,960	86,980,332	11.29
Jul-13	10,608,000	116,264,967	10.96
Aug-13	9,300,960	106,421,150	11.43
Sep-13	10,320,000	117,631,813	11.40
Oct-13	10,608,000	125,165,429	11.80
Nov-13	10,272,000	134,248,461	13.07
Dec-13	4,814,372	74,434,473	15.46
Jan-14	10,608,000	148,177,742	13.97
Feb-14	9,600,000	131,858,377	13.74
Mar-14	10,656,000	138,060,137	12.96
Apr-14	6,152,316	79,695,337	12.95
Total	121,545,608	1,523,161,878	12.53



GSPL PURCHASE FOR FY 2013-14.

Month	Units Purchased from GSPL	Amount billed
Apr-13	320,600	769,440
May-13	364,240	874,176
Jun-13	326,100	782,640
Jul-13	100,930	242,232
Aug-13	861,240	2,066,976
Sep-13	838,153	2,011,567
Oct-13	715,840	1,718,016
Nov-13	269,900	647,760
Dec-13	521,850	1,252,440
Jan-14	638,120	1,531,488
Feb-14	472,720	1,134,528
Mar-14	945,060	2,268,144
Total	6,374,753	15,299,407



UI charges Western region

year-2013-14

Sr.no.	week	UI payable	units	Rate	UI receivable	units	Rate
			in Mus			in Mus	
1st	01/04/2013 to 07/04/2013	15,268,042	6.05	2.52			
2nd	08/04/2013 to 14/04/2013	6,495,955	2.99	2.17			
3rd	15/04/2013 to 21/04/2013	852,915				0.11	
4th	22/04/2013 to 28/04/2013	9,079,252	3.17	2.87			
5th	29/04/2013 to 05/05/2013	7,790,517	3.80	2.05			
6th	06/05/2013 to 12/05/2013	13,445,694	5.39	2.50			
7th	13/05/2013 to 19/05/2013	4,468,439	1.76	2.54			
8th	20/05/2013 to 26/05/2013	9,866,256	5.32	1.85	4 40 007	1.50	
9th	27/05/2013 to 02/06/2013	5 000 050	1.00	0.40	442,637	1.53	0.29
10th	03/06/2013 to 09/06/2013	5,632,653	1.66	3.40		0.40	
11th 12th	10/06/2013 to 16/06/2013	1,022,202	0.00	0.40		0.16	
13th	17/06/2013 to 23/06/2013 24/06/2013 to 30/06/2013	17,225,007 7,514,923	8.08 6.30	2.13			
14th	01/07/2013 to 07/07/2013	10,821,164	4.46	2.43			
15th	08/07/2013 to14/07/2013	1,995,943	2.05	0.97			
16th	15/07/2013 to 21/07/2013	1,363,826	0.86	1.59			
17th	22/07/2013 to 28/07/2013	1,505,020	0.00	1.09	4,058,930	4.16	0.9
18th	29/07/2013 to 04/08/2013				470,053	2.38	0.20
19th	05/08/2013 to 11/08/2013	6,955,469	6.35	1.10	-10,000	2.00	0.2
20th	12/08/2013 to 18/08/2013	4,930,966	5.80	0.85		1	
21st	19/08/2013 to 25/08/2013	10,518,639	6.84	1.54	1	1	
22nd	26/08/2013 to 01/09/2013	3,451,652	0.93	3.71		1	
23rd	02/09/2013 to 08/09/2013	5,245,698	2.16	2.42			
24th	09/09/2013 to 15/09/2013	-, -,			14,453,380	6.59	2.1
25th	16/09/2013 to 22/09/2013				5,022,641	3.67	1.3
26th	23/09/2013 to 29/09/2013	3,837,606	1.88	2.04			
27th	30/09/2013 to 06/10/2013	3,451,142	1.89	1.83			
28th	07/10/2013 to 13/10/2013	6,344,448	4.46	1.42			
29th	14/10/2013 to 20/10/2013	10,622,531	5.70	1.86			
30th	21/10/2013 to 27/10/2013	1,859,737	0.65	2.85			
31st	28/10/2013 to 03/11/2013	3,498,858	1.86	1.88			
32nd	04/11/2013 to 10/11/2013				241,755	0.00	
33rd	11/11/2013 to 17/11/2013	491,990	0.88	0.56			
34th	18/11/2013 to 24/11/2013				4,248,967	2.09	2.03
35th	25/11/2013 to 01/12/2013				6,132,669	1.79	3.43
36th	02/12/2013 to 08/12/2013				6,869,747	3.15	2.18
37th	09/12/2013 to 15/12/2013				6,230,769	3.37	1.8
38th	16/12/2013 to 22/12/2013	4 70 4 00 4	4.00	1.00	1,132,831	1.12	1.0 ⁻
39th	23/12/2013 to 29/12/2013	4,704,264	1.09	4.30	0.040.440	0.00	1.0
40th	30/12/2013 to 05/01/2014	100,100			3,646,143	2.63	1.38
41st	06/01/2014 to 12/01/2014	430,400				0.63	
42nd 43rd	13/01/2014 to 19/01/2014 20/01/2014 to 26/01/2014	187,529			4 404 405	0.75 3.13	1 1
	27/01/2014 to 02/02/2014				4,424,135 5,660,350	3.75	1.4
44th 45th	03/02/2014 to 09/02/2014	165,213	0.02	8.29	5,660,350	3.75	1.5
46th	10/02/2014 to 16/02/2014	105,215	0.02	0.29	3,766,128	2.28	1.6
40th	17/02/2014 to 23/02/2014	3,120,581	0.46	6.77	5,700,120	2.20	1.0
48th	24/02/2014 to 02/03/2014	870,234	00	0.11		1.25	
49th	03/03/2014 to 09/03/2014	4,606,262	1.01	4.57		1.25	
50th	10/03/2014 to 16/03/2014	10,512,050	2.72	3.86		t	
51st	17/03/2014 to 23/03/2014	12,914,051	3.32	3.89		1	
52nd	24/03/2014 to 30/03/2014	5,338,589	1.15	4.63			1
53rd		.,,,,					
Total A		216,900,697	101.08	2.15	66,801,135	44.55	1.5
evisions	revisions Aug'12 &sSep'12				2,825,795		
evisions	Revisions June'2012	7,684,501					
evisions			l			l	
evisions							
evisions							
	Net Total - WR	224,585,198	101	<u> </u>	69,626,930	45	<u> </u>
	Net Total - SR	25,197,545	6		37,474,239	45 30	
	Net Total - WR + SR	249,782,743	107		107,101,169	30 75	
	Net Transaction - WR + SR	142,681,574	32		107,101,109	75	
	THE THE THE TANGAGE THE TANK T ON	172,001,074	52				



UI chargesSouthernregion

year-2013-14

Sr.no.	week	UI payable	units	Rate	UI receivable	units	Rate
			in Mus			in Mus	
1st	01/04/2013 to 07/04/2013				802,245	0.26	3.05
2nd	08/04/2013 to 14/04/2013				2,436,312	0.74	3.31
3rd	15/04/2013 to 21/04/2013	831,043	0.12	7.17			
4th	22/04/2013 to 28/04/2013	2,863,805	0.66	4.35			
5th	29/04/2013 to 05/05/2013	1,315,422	0.39	3.40			
6th	06/05/2013 to 12/05/2013	2,250,477	0.64	3.53			
7th	13/05/2013 to 19/05/2013	1,169,699	0.36	3.29			
8th	20/05/2013 to 26/05/2013	<i>, , ,</i>			2,336	0.14	0.02
9th	27/05/2013 to 02/06/2013				891,724	1.18	0.75
10th	03/06/2013 to 09/06/2013	998,256	0.22	4.50			
11th	10/06/2013 to 16/06/2013	,	-		2,593,992	1.66	1.56
12th	17/06/2013 to 23/06/2013				3,407,703	1.66	2.05
13th	24/06/2013 to 30/06/2013				3,329,412	1.28	2.61
14th	01/07/2013 to 07/07/2013				4,726,444	2.20	2.15
15th	08/07/2013 to 14/07/2013	36,744			1,720,111	2.20	2.10
16th	15/07/2013 to 21/07/2013	00,744			208,972	0.30	0.71
17th	22/07/2013 to 28/07/2013				1,938,832	1.62	1.20
18th	29/07/2013 to 04/08/2013				769,431	0.97	0.79
19th	05/08/2013 to 11/08/2013				110,351	0.22	0.73
20th	12/08/2013 to 18/08/2013	1,337,116	0.44	3.06	110,551	0.22	0.51
21st	19/08/2013 to 25/08/2013	1,007,110	0.44	0.00	539,362	0.55	0.98
213t	26/08/2013 to 01/09/2013				704,763	1.03	0.68
22nd 23rd	02/09/2013 to 08/09/2013	145.198			704,703	1.03	0.08
2310 24th	09/09/2013 to 15/09/2013	653,267	0.48	1.38			
24th 25th	16/09/2013 to 22/09/2013	168,565	0.43	12.50			
25th	23/09/2013 to 29/09/2013	100,000	0.01	12.50	1,162,935	0.64	1.82
2011 27th	30/09/2013 to 06/10/2013				205,716	0.64	0.49
27th 28th	07/10/2013 to 13/10/2013				778,909	1.31	0.49
29th	14/10/2013 to 20/10/2013				1,847,172	1.14	1.62
30th	21/10/2013 to 27/10/2013				1,049,093	1.14	0.89
31st	28/10/2013 to 03/11/2013				1,049,093	1.38	0.89
32nd	04/11/2013 to 10/11/2013				101,750	0.31	0.74
	11/11/2013 to 17/11/2013					0.89	
33rd					1,103,063		1.24
34th 35th	18/11/2013 to 24/11/2013				1,912,797	1.27	1.51 1.33
	25/11/2013 to 01/12/2013				2,154,512	1.62	
36th	02/12/2013 to 08/12/2013				1,222,835	0.78	1.56
37th	09/12/2013 to 15/12/2013				13,805	0.09	0.15
38th	16/12/2013 to 22/12/2013				1,267,629	0.96	1.33
39th	23/12/2013 to 29/12/2013	4 000 570	0.50	1.00	3,365	0.18	0.02
40th	30/12/2013 to 05/01/2014	1,002,579	0.53	1.90			
41st	06/01/2014 to 12/01/2014	559,524	0.27	2.05			
42nd	13/01/2014 to 19/01/2014	1,172,955	0.74	1.59	 		
43rd	20/01/2014 to 26/01/2014	1,743,078	1.04	1.68	75 000		
44th	27/01/2014 to 02/02/2014	ļ ļ	0.07		75,230		
45th	03/02/2014 to 09/02/2014	ļļ			465,018	0.23	1.98
46th	10/02/2014 to 16/02/2014	(2) 225			627,323	0.44	1.43
47th	17/02/2014 to 23/02/2014	491,992				0.10	
48th	24/02/2014 to 02/03/2014	2,078,861				0.35	
49th	03/03/2014 to 09/03/2014	1,742,007				1.18	
50th	10/03/2014 to 16/03/2014	1,640,881				0.97	
51st	17/03/2014 to 23/03/2014	2,988,534				0.87	
52nd	24/03/2014 to 30/03/2014						
53rd							
Total A		25,190,003	5.94	4.24	37,474,239	30.13	1.24



Annexure III: Month wise Transmission Charges Details – FY 2013-14

S.no	Name of the Supplier/ Agency	Amount	Remarks
1	M/s PGCIL WR, Nagpur	912,484,830	POC Charges
2	M/s PGCIL SR, Banglore	221,301,763	POC Charges
3	M/s KPTCL, Banglore	52,337,429	wheeling charges
4	M/s POSOCO WR	5,426,650	Fees and charges of SLDC
5	M/s POSOCO SR	5,070,720	Fees and charges of SLDC
6	M/s POSOCO WR	7,276,557	SCADA charges
7	M/s MSEDCL	_	reactive charges
8	M/s POSOCO WR	-	Reactive charges
9	M/s MSETCL (RGPPL)	26,638,497	wheeling charges
	Total	1,230,536,446	

Summary of Transmission Charges (WR + SR + KPTCL + Others) for FY 2013-14



Statement of Western Region	Transmission Charges	during the year 2013-14
oratement of Western Region	i nunsinission onurges	

SR.	Name of the	Amount	Remarks	
No	Supplier/Agency	74110411		
	M/s PGCIL WR, Nag	bur		
1	April'2013	63.964.051	POC bill for the month April'2013	
			Revision of bill January'2012 to March'2012	
			Deviation for month February 2013	
			Deviation for month March'2013	
			Non POC ULDC charges and 2nd installment wage revision	
2	May'2013	67,873,959	POC month May'2013	
			Non POC ULDC charges , deffered tax and 3rd installment wage	
		1,603,186	revision	
3	June'2013		POC month June'2013	
			Differential Bill for the period October'12 to March'2013	
4	July'2013		POC month July'2013	
			difference in POC July '13(based on final RTA)	
			ULDC and differential bill for June'13 & July'13	
		1,004,812	2 Deviation for April'13, May13, June13 & July13	
-	August 2012	07 000 740		
5	August'2013		POC monthAugus'2013 ULDC and differential bill for August'13	
		2,220,048	ULDC and differential bill for August 13	
6	September'2013	68,683,053	53 POC month September'2013	
			Final bill April'13 to June'13& Difference for period July'11 to	
		15,199,640	March'2013	
		1,132,815	ULDC and differential bill for September'13	
7	October'2013		POC monthOctober'13	
		1,240,015	ULDC and differential bill for Oct'13	
		784,739	Deviation for Aug'13 & sep13	
8	November'2013	66,703,738	POC month november'13	
•	D 10040	05.070.050		
9	December'2013		POC month december'13	
			Uldc charges	
			deviation oct'13	
			deviation Nov'13	
		373,105	deviation Dec'13	
10	January'2014	70 995 878	POC month January'14	
10		16,505,286	Final bill july'13 to sep'13& Difference for period July'11 to June'13	
L		10,000,200		
11	February'2014	1,100.868	Uldc charges &differntial bill January'14	
			POC month February/2014	
			Final bill Oct'13 to Dec'13& Difference for period July'11 to sep'13	
		878,282		
12	March'2014	73,556,250	POC month March'2014	
	Total	912,484,830		



SR	Name of the		
	Supplier/Agency	Amount	Remarks
No	Cappilolitigency		
1	2	2	1
1	2 M/s PGCIL SR, Banglore	3	4
	Mast Cole OK, Banglore		
1	April'2013	704,990	Supplimentary bill on a/c of assets
			POC bill for the monthApril"2013
			Deviation for month February 2013
			Deviation for month March'2013
			Revision of bill January'2012 to March'2012
2	May'2013		3rd installment wage revision
			POC bill for the monthMay'2013
	1		Deviation for month April13
3	June'2013		4thinstallment wage revision POC bill for the monthJune"2013
			Deviation for month May13
			Differential Bill for the period October'12 to March'2013
4	July'2013		Supplimentary bill 5th installment O&M expenses.
•			Poc charges for July 2013
			difference in POC July '13(based on final RTA)
		,	
5	August'2013	384,089	Supplimentary bill 6th installment O&M expenses.
			POC month August'2013
			Deviation June'2013
		3,732	Deviation July'2013
6	September'2013	384,089	Supplimentary bill 7th installment O&M expenses.
		11,950,341	POC month September'2013
		13,098,394	Final bill April'13 to June'13& Difference for period July'11
			to March'2013
7	October'2013	394 090	Supplimentary bill 8th installment O&M expenses.
/	October 2013	14 183 575	POC month October'13
			Deviation September'2013
8	November'2013	13,477,921	POC month November'13
		,	Deviation October'13
		1,058,421	supplimentary bill & 9th installment O&M expenses
9	December'2013	13,949,497	POC month December'13
		45,983	Deviation November'13
		384,089	Supplimentary bill 10th installment O&M expenses.
10	January'2014		POC month January'2014
			Deviation Dec'13
		384,089	Supplimentary bill 11th installment O&M expenses.
		40.070.05	Final bill july'13 to sep'13& Difference for period July'11 to
14	Eebruon/2014	12,873,354	June'13 POC month February'2014
11	February'2014	12,439,628	Final bill Oct'13 to Dec'13& Difference for period July'11 to
		4,414,110	
			Supplimentary bill 12th installment O&M expenses.
			supplimentary bill
12	March'2014		supplimentary bill
			POC month march'2014
			Deviation jan14
		186,550	Deviation feb'14
		004 004 700	
	Total	221,301,763	

Statement of Southern Region Transmission Charges during the year 2013-14



SR.	Name of the	Units		
No	Supplier/Agency	Purchased	Amount	Remarks
	Coppiloli, (golloy	(Kwh)		
1	2	3	4	5
	M/s KPTCL, Banglo	re (Wheeling	g charges)	-
			,	
1	April'2013		1,653,816	
0			44.004.000	May'13 @7.5paise/kwh, difference
2	May'2013		11,984,666	march'13& April'13 @7.5paise/kwh
3	June'2013		3,793,334	
4	July'2013		3,905,513	
5	August'2013		3,420,862	
6	September'2013		4,310,416	
7	October'2013		3,924,857	
8	November'2013		4,832,987	
9	December'2013		5,144,302	
10	January'2014		4,663,240	
11	February'2014		4,703,436	
12	March'2014			
	Total	-	52,337,429	

Statement of KPTCL Wheeling Charges during the year 2013-14

Statement of MSETCL Wheeling Charges during the year 2013-14

SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks
		(Kwh)		
1	2	3	4	5
	M/s MSETCL, Mum	bai (Wheeling cl	narges)	
1	April'2013	2,216,667		
2	May'2013	2,231,862		
3	June'2013	2,230,074		
4	July'2013	2,216,667		
5	August'2013	2,224,711		
6	September'2013	2,218,514		
7	October'2013	2,216,667		
8	November'2013	2,216,667		
9	December'2013	2,216,667		
10	January'2014	2,216,667		
11	February'2014	2,216,667		
12	March'2014	2,216,667		
	Total	26,638,497	-	



	Statement of Power Purcha	sed Exper	nditure durin	ng the year 20 ²	13-14
SR. No	Name of the Supplier/Agency	Opening	Units	Amount	Remarks
		Balance	Purchased		
			(Kwh)		
1	2	3	4	5	11
	M/s POSOCO WR (fees & Charges)				
1	April'2013			485,899	
2	May'2013			471,671	
3	June'2013			459,232	
4	July'2013			449,807	
5	August'2013			450,866	
6	September'2013			451,004	
7	October'2013			447,998	
8	November'2013			443,847	
9	December'2013			443,426	
10	January'2014			443,309	
11	February'2014			443,309	
12	March'2014			436,282	
	Total		-	5,426,650	

Statement of Power Purchased Expanditure	during the year 2012-14
Statement of Power Purchased Expenditure of	uuring me year 2013-14

	Statement of Power Purcha	ased Expe	nditure durin	ng the year 20	13-14
SR. No	Name of the Supplier/Agency	Opening Balance	Units Purchased	Amount	Remarks
			(Kwh)		
1	2	3	4	5	11
	M/s POSOCO SR (fees & Charges)				
1	April'2013			434,273	
2	May'2013			435,033	
3	June'2013			439,632	
4	July'2013			433,626	
5	August'2013			433,626	
6	September'2013			427,693	
7	October'2013			427,693	
8	November'2013			414,691	
9	December'2013			414,691	
10	January'2014			402,729	
11	February'2014			402,729	
12	March'2014			404,304	
	Total		-	5,070,720	



SR. No	Name of the Supplier/Agency	Opening Balance	Units Purchased	Amount	Remarks
			(Kwh)		
1	2	3	4	5	11
	M/s POSOCO WR (AMC SCADA)				
				1,758,532	AMC SCADA charges period 14/04/2013 - 13/07/2013
				1,829,760	AMC SCADA charges period 14/07/2013 - 13/10/2013
				1,841,569	AMC SCADA charges period 14/10/2013 - 13/01/2014
				1,846,696	AMC SCADA charges period 14/01/2014 to 13/04/2014
	Total		-	7,276,557	



Annexure IV: Month wise Power Purchase Details for FY 2014-15

N T P C LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 SUMMARY OF FY 2014-15

		TOMER		GOA	
0832-23	17810 /2313	3780			
FAX to:	Executive	Engineer,	Div-3		

Bill No.	WR:14-15: GOA													CUS	TOMER:	(GOA	
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	Mouda I	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	Total Units
	Energy scheduled(KWH) Energy Charges(Ps/KWH)	724,224,391	18,303,529	115,037,365	42,812,306	36,633,867	42,418,092	31,888,001	27,222,332	27,360,509	77,748,157	37,485,482	-	-	-	-	353,422,110	1534556141.00
																		AMT(Rs)
01.	Capacity Charges	406957854	29973644	77695468	28248832	41867931	61003615	57686230	35148248	45693590	115905178	50763131	0	0	0	0	209896103	1160839824
02.a.	Basic Energy Charges	756187637	19048735	173318250	61084901	50858478	60177881	118438732	72998884	68865913	115178346	56281932	0	0	0	0	845707105	2398146794
02.c.	Incentive	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2651585	2651585
03.	ED&Cess on APC	46438950	1168187	7396072	2647561	2622292	2531498	0	0	0	4319285	2308748	0	0	0	0	0	69432593
04.a.	ED&Cess on Sales	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.b.																		
	Total (Main Bills) Rs.	1209584441	50190566	258409790	91981294	95348701	123712994	176124962	108147132	114559503	235402809	109353811	0	0	0	0	1058254793	3631070796
05.	Supplementary Charges	(38076455)	396922	61394704	30673044	21826596	(4605362)	(7428176)	409836	405977	2079154	15532713	74	(122)	25	(6)	3724372	86333296
	URS	0	0	(317353)	0	0	0	(54487)	(78286)	(340386)	(1258802)	(305227)	0	0	0	0	0	(2354541)
	less rebate additonal																	(3084219)
																		317
06.	LC Bill (Gross) Rs.	1171507986	50587488	319487141	122654338	117175297	119107632	168642299	108478682	114625094	236223161	124581297	74	(122)	25	(6)	1061979165	3711965649



							NTF		IMITED												
										/IBAI- 4000 9	3										
		D 4 7 5 5				L	C BILL RAIS	SED IN THE	MONTH OF	MAY 2014						FAX to:		ngineer, Div-3			
	REA/2014-15/4.0		6-May-14									CUE	TOMER:	~			0832-23178	10 /2313780			
	WR:14-15 : GOA		8-May-14	VETDEA	VSTPS2	VETDES	VETDEA	MCTDC4	KGPS	JGPS	SIPAT-1			GC KhSTPS 1		CHOT DO 1	DETDE				
SI.No.	PARTICULARS	KSIPS	KSTPS 3	V51P51	V51P52	VSTPS3	VSTPS4	MSTPS1	APM:	JGPS	SIPAT-1	SIPAT-2	15175	KN51P51	15175	KNSTPS.	2 RSTPS				
	Energy scheduled(KWH)	123400438	3122383	########	8741037	7925473	8413194	7255587	3628106 N- APM:1455 688 Lq : 0 RLNG:	APM: 4521167 RLNG: 72772 N-APM: 358942	15882359	7010901	0	0	0	0	67834326				
	Energy Charges(Ps/KWH)	91.50	90.70	142.60	134.70	134.70	134.50	338.00	APM: 252 N-APM: 338.3 Lq : 0 RLNG: 1209.1	APM : 244.7 RLNG : 1092.7 N-APM : 332.6	172.70	172.70	299	312	169	252.00	237.100				
																		AMT(Rs)			
	Capacity Charges	67841094	5093302	########		7464955	11993291	13066918	5855867		19370933	8127564	0				34982684	199891783			
02.a.	Energy Charges	112911401	2832001	########	11774177	10675612	11315746	24523884	14067420	13052317	27428834	12107826	0		-		160835187	429859578			
02.b.	MOPA Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
03.	Incentive	1164296	0	0	526657	689917	388858	0	0	0	1174852	190183	0	0	0	0	5362151	9496914			
04.a.	ED&Cess on APC	8210810	218194	1339631	469170	464739	303882				715891	410366						12132683			
04.b.	ED&Cess on Sales	0	0	0	0	0	0				0	0						0			
	Total (Main Bills) Rs.	190127601	8143497	########	17791731	19295223	24001777	37590802	19923287	20663557	48690510	20835939	0	0	0	0	201180022	651380958			
05.	POCM and ECR Rvsn - March-	(1135162)	(30166)	0	0	0	0	102993	85268	83199	(384602)	(209808)) 0	0	0	0	629304	(858974)			
06.																		0			
07.																		0			
08.	Water Cess - KST 1 / 3 & VST 1	336981	8570	61748														407299			
09.																		0			
10.																		0			
11.	ECR Rvcn - MST1 - Jan'14 & Fe	eb'14						34873										34873			
12.																		0			
13.																	3	3			
14.																		0			
	supplementary bills	(798181)	(21596)	61748	0	0	0	137866	85268	83199	(384602)	(209808)) 0	0	0	0	629307				
15.	LC Bill (Gross) Rs.	189329420	8121901	########	17791731	19295223	24001777	37728668	20008555	20746756	48305908	20626131	0	0	0	0	201809329	650964159			
16.	· · ·																				
17.	Net LC Bill (Gross-Rebate)	189329420	8121901	########	17791731	19295223	24001777	37728668	20008555	20746756	48305908	20626131	0	0	0	0	201809329	650964159			
Detail	s of URS																				
ii	Rate of FC for URS@ (Ps/Kwh) URS in KWH	0	0	65.25	64.94 0	113.38 0	158.15 0	172.36 0	78.65	0	140.88 0	124.16 0	-								
	URS in Rs	0	0	0	0	0	0	0	0	0	0	0	TOTA		(MD) 01) (()-		050004450			
												650964159									
	Pooled Capacity Charges (Ps			NON-REB		12539984										(KS 60519	99) Bill dtd. 07				
	Pooled Total Charges (Ps/kW	2.25		Total Bill		650964159							INET PA	YABLE (R				650358960			
														For & on b	enalt of N	II PC Ltd.					



							NTP	C LI	MITED									
					۷	VESTERN	REGION HE	ADQUART	ERS, MUME	3 <mark>AI- 40009</mark> 3								
						LC	BILL RAIS	ED IN THE	MONTH OF	JUN 2014						FAX to:	Executive End	aineer. Div-3
REF:	REA/2014-15/5.0	DATED:	5-Jun-14														0832-2317810	
Bill No.	WR:14-15 : GOA	DATED:	6-Jun-14										CUSTOMER	G	OA			
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
	Energy scheduled(KWH)	128,238,423	3,765,111	20,206,710	8,950,212	7,131,653	8,551,258	5,625,475	APM: 3531423 N-APM:2259589 Lq : 0 RLNG:	APM: 4935492 RLNG: N- APM: 867928	9,992,799	7,291,029	-	-	-	-	56,895,682	
	Energy Charges(Ps/KWH)	98	102	135	128	127	128	358	APM : 249.6 N-APM : 335.3 Lq : 824.3 RLNG : 988.6	APM : 243.7 RLNG : 1092.7 N- APM : 329.5	175	177	299	312	169	236	245	AMT(Rs)
0.1		07.004.005	5.083.926	40.040.500	5 010 100	7.005.005	11,967,599	11.037.748	5855867	7611241	19.087.696	8.108.836					34.982.684	· · ·
01.	Capacity Charges	67,824,965		13,610,568	5,013,438	7,385,365		1		-	- 1	-,,	-	-	-	-	- / /	
02.a.	Energy Charges	126,186,608	3,847,943		11,438,371	9,078,594	10,928,508	20,127,950	16390834 0	14887617	17,477,405	12,919,703	-	-	-	-	139,394,421	410017633
02.b.	MOPACharges	- 1,572,860	- 259,785	-	506,393	- 186,892	319,007	-	0	-	-	238,616	-	-	-	-	- (1.328.949)	579752
03.	Incentive			-				-	0	0	() 1)						(1,328,949)	
04.a.	ED&Cess on APC	7,247,688	183,387	1,192,324	524,506	475,569	504,834				836,827	360,323					 	11325458
04.b.	ED&Cess on Sales	-	-	-	-	-	-				-	-					L	0
	Total (Main Bills) Rs.	202,832,121	9,375,041	42,142,571	17,482,708	17,126,420	23,719,948	31,165,698	22246701	22498858	36,227,076	21,627,478	-	-	-	-	173,048,156	
05.	AFC Rvsn - Apr14-VST3, ECR Rvsn SPT, MST	-	3,123	-	-	(66,551)	-	689,281	0	0	47,647	21,033	-	-	-	-		694533
06.	AFC Rvsn - VST-3 (Apr09-Mar14)					(1,273,823)												(1273823)
07.	AFC Rvsn-KHS1- (FY 09-10 & 10-11)													(86))		L	(86)
08.	ULDC Charges- RST-1 (Apr09-Mar14) & RLDC-Mar14																4,953,413	
09.	Adv Tax-FY05-06(KS1,VS1,KGP,JGP,FST,RST)	247,303		42,902					234	111			-				131,781	422331
10.	DITL 2013-14 (KST1, VST1)	1,064,528		9,957,928													L	11022456
11.	FERV	891,421	323,374	248,104	5,545,578	1,216,666					3,666,912	3,199,018				-	158,080	15249153
12.	Pollution Chrgs & ULDC-Khs2																L	0
13.	Interest on Cap charges rvsn (VST3,Khs1)					(166,940)								(51))		(1)	(166992)
14.	0																	0
	supplimenatry bills	2,203,252	326,497	10,248,934	5,545,578	(290,648)		689,281	234		3,714,559	3,220,051	-	(137)		-	5,243,273	
15.	LC Bill (Gross) Rs.	205,035,373	9,701,538	52,391,505	23,028,286	16,835,772	23,719,948	31,854,979	22246935	22498969	39,941,635	24,847,529	-	(137)) -	-	178,291,429	650393761
16.																		
17.	Net LC Bill (Gross-Rebate)	205,035,373	9,701,538	52,391,505	23,028,286	16,835,772	23,719,948	31,854,979	22246935	22498969	39,941,635	24,847,529	-	(137)) -	-	178,291,429	650393761
Details o														Credit for L	JRS schedul	ed by other S	EBs	(1053036)
i	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25	64.94	112.37	158.15	172.36	78.65	100.13	141	124]					
ii	i URS in KWH 0 0 (404311) 0 0 0 (66148) (90289) (298,603) (182,120)																	
iii	URS in Rs	0	0	(263813)	0	0	0	0	(52025)	(90406)	(420,672)	(226, 120)						
	Pooled Energy Charges (Ps/KWh)	1.53	-	REBATABLE	Rs	607704295				• • •			TOTAL PAY	'ABLE (WR +	SR) for the r	nonth		649340725
1														638424				
		2.27		Total Bill	Rs	649340725							NET PAYAE					648702301
	· · · · · · · · ·													For & on be	half of NTPC	Ltd.		



NTPCLIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 LC BILL RAISED IN THE MONTH OF JUL 2014

									MONTH OF							FAX to:	Executive	Engineer, Div-3
REF:	REA/2014-15/6.0		7-Jul-14							JUL 2014						1 AA IO.		10 /2313780
	WR:14-15 : GOA		8-Jul-14									·	USTOMER:	G	OA		0032-23170	10/2313/00
SI.No.	PARTICULARS			VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1			KhSTPS 1		KhSTPS 2	RSTPS	
51.NO.	FARTICULARS	NOTE O	NOTFO J	VOIPOI	V31F32	VOIPOJ	V31F34	WOTFOT	APM:	3053	SIFAT	JIFAI-2	FOIFO	NIGTES I	13153	MISTES 2	. NOTFO	
	Energy scheduled(KWH)	130492917	3623661	23164381	4392628	7859452	8479874	4210441	4149450 N-APM:784104	APM: 4742967 RLNG: N-	10584559	7639381	0	0	0	0	55891683	
									Lq : 0 RLNG: 17332	APM: 258541						-		
	Energy Charges(Ps/KWH)	99.90	98.70	149.70	141.30	141.30	141.30	383.40	APM : 245.7 N-APM : 330.4 Lq : 824.3 RLNG : 966	APM : 238.5 RLNG : 903.9 N-APM : 324.7	160.80	156.40	298.70	311.80	169.40	272.90	227.000	
																		AMT(Rs)
01.	Capacity Charges	67826981	5084394	13532209	4714259	7384062	8187295	4248776	5855866	5948489	15523663	8111717	0	-	0	-	34982684	181400395
	Energy Charges	130362424	3576553	34677078	6206783	11105406	11982062	16142831	12953306	12151459	17019971	11947992	0	0	0		12001 1120	394999985
	MOPA Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.	Incentive	4719530	247089	584413	(1033050)	660944	427744	0	0	0	0	360657					(245367)	5721960
	ED&Cess on APC	8029757	235756	1233304	546271	435276	521921				580187	433257						12015729
04.b.	ED&Cess on Sales	0	v	v	0	v	0				0	0						0
_	Total (Main Bills) Rs.	210938692	9143792		10434263	19585688	21119022	20391607	18809172	18099948	33123821	20853623	0	0	0		161611437	594138069
	ECR Rvsn-KST, VST, MST, SPT (May14) & MOPA	()	(18825)	242480	98452	85580	102615	(28128)	21596	0	(389719)	(291641)	0	0	0	0		(690543)
06.	NLDC Fees & Charges (Apr09-Mar14)	162388	1800	28129	10266	8760	976	953	6917	7071	5390	8753						241403
07.	ULDC Fees & Charges (Jan14-Mar14)	79752	2051	13839	5025	4281	2596	2516	4652	4749	8938	4256						132655
08.	WRLDC Fees & Charges- Apr14	100623	4063	19538	7577	6449	7427	7429	8205	8371	11362	6411					116351	303806
09.	CC Rvsn & Ann Avail Adj-VST-4 & MST-1		(0.100)				#######	(8034636)										(19709954)
10.	ECR Rvsn - VST (Oct12- Apr14),KST-3(Apr14)	8544	(3123)	56263808	24302442	21484009	6689319		(05504)	4007								108736455
11.	REA Rvsn-KST1,KGP,JGP(Dec13)	8544							(35521)	4207								(22770)
12. 13.	MOPA-KGP, JGP (Apr14)	Channel	<u> </u>	<u> </u>		<u> </u>			28547 168007	1489448		<u> </u>				(2)		30149 1657453
13. 14.	KGP-Water Cess,Hajira Tax,NAA Tax,JGP-Transportatio	on Unarges		<u> </u>		<u> </u>			100007	1409448		<u> </u>				(2)		007/403
14.	suplimentary bills	(161646)	(14034)	56567794	24423762	21589079	(4872385)	(8051866)	202403	1515448	(364029)	(272221)	0	0	0	(2)	116351	U
15.	LC Bill (Gross) Rs.	210777046		56567794 ###################################		41174767	(4072305) 16246637	12339741	202403 19011575	19615396		· · · · ·	0	v	0		161727788	684816723
15. 16.		210111040	3123130	********	34030023	+1114/0/	10240037	12333141	130113/3	13013390	JZI J319Z	20301402	0			(2)	101121100	004010723
	Net LC Bill (Gross-Rebate)	210777046	9129758	#######################################	34858025	41174767	16246637	12339741	19011575	19615396	32759792	20581402	0	0	0	(2)	161727788	684816723
Details of	· · · · · · · · · · · · · · · · · · ·	1-10111040	0120100		01000020			.1000.41	10011010	10010000	0110010E	23001-02	Ů	Credit for	-	uled by oth		(18061)
	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25	64.94	112.37	141.50	154.22	78.65	100.13	140.88	124.16		iii				(10001)
ii	URS in KWH	00.00	0		04.04	-	0	0	0.00		0	0						
	URS in Rs	0	0	-	0	-	0	0	0	(18061)	0	0						
	Pooled Energy Charges (Ps/KWh)	1.48		REBATABI	LE	671955122			. <u> </u>	. ()			TOTAL PA	YABLE (W	R + SR) for	the month		684798662
	Pooled Capacity Charges (Ps/kWh)	0.68		NON-REBA	TABLE F	12843540									,		dtd. 06.06.14	607704
	Pooled Total Charges (Ps/kWh)	2.16		Total Bill		684798662							NET PAYA					684190958
	- · · ·													For & on b	obalf of NT			



N T P C LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 LC BILL RAISED IN THE MONTH OF AUG 2014

					VVI.				MONTH OF		5					FAX to:	Executive Eng	ninger Div 2
REF:	REA/2014-15/7.0		5-Aug-14							A00 2014						1 77 10.	0832-2317810	
Bill No.	WR:14-15 : GOA		6-Aug-14									~	USTOMER:		OA		0032-231/010	/2313/00
SI.No.	PARTICULARS			VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2		KhSTPS 1		KhSTPS 2	RSTPS	
31.110.	PARTICULARS	NOIPO	NOTEO 3	VOIPOI	VOIPOZ	VOIPOD	V31F34	WISTFST	APM:		SIFAT-1	JIFAT-2	FOIFO	RIGTEST	13153	KIISTFS Z	KJIFJ	
									2447325	APM: 3656792 RLNG: 8160								
	Energy scheduled (KWH)	102698624	3065689	19643829	6531788	7092657	5355532	4874704	N-APM:230538	N-APM:	12500224	6917854	0	0	0	-	58394114	
									Lq : RLNG:	117595								
									APM : 246.4	APM : 240.9								
	Energy Charges(Ps/KWH)	110.20	109.90	140.40	132.20	132.50	132.80	389.90		RLNG : 870.2	124.80	119.70	298.70	311.80	169.40	278.50	239.700	
									Lq : 818.4	N-APM :								
																		AMT(Rs)
01.	Capacity Charges	67822949	5072205	13529425	4100394	7365806	10699642	7702846	5859595	7538040	17136223	8095869	0	0	0	0	34982683	189905677
02.a.	Energy Charges	113173884	3369192	27579936	8635024	9397771	7112146	19006471	6796748	9264520	15600280	8280671	0	0	0	0	139970691	368187334
02.b.	MOPACharges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.	Incentive	(7456686)	(82863)	(584413)	0	171269	(1135609)	0	0	0	0	(345637					(298924)	(9732863)
04.a.	ED&Cess on APC	7867058	218461	1442998	273633	489595	528244				576800	435433						11832222
04.b.	ED&Cess on Sales	0	0	0	0	0	0				0	0						0
	Total (Main Bills) Rs.	181407205	8576995	41967946	13009051	17424441	17204423	26709317	12656343	16802560	33313303	16466336	0	0	0	0	174654450	560192370
05.	ECR Rvsn-KST,MST,SPT,Khs2(Jun14) & MOPA	(130493)	(3623)	0	0	0	0	(29473)	27420	15289	(656243)	(511839)	0	0	0	0		(1288962)
06.	WRLDC Charges - May14	100234	4015	19422	7520	6394	7370	7369	8132	8299	11300	6359					115825	302239
07.	Income Tax (93-94,94-95,95-96,96-97)	3339539		2066489													4200119	9606147
08.	Pollution Charges (Mar14) - RST1																374158	374158
09.	ECR Rvsn (Apr13-Apr14) - RST1																13369163	13369163
10.	Income Tax (93-97) - NR Portion																	317
11.	JGGPP Transporation Charges - Jul14									496999								496999
12.	0																	0
13.	0															(4)		(4
14.	0																	0
	Total supplimenatry bills	3309280	392	2085911	7520	6394	7370	(22104)	35552	520587	(644943)	(505480	0	0	0	(4)	18059265	
15.	LC Bill (Gross) Rs.	184716485	8577387	44053857	13016571	17430835	17211793	26687213	12691895	17323147	32668360	15960856	0	0	0	(4)		583052427
16.																		
17.	Net LC Bill (Gross-Rebate)	184716485	8577387	44053857	13016571	17430835	17211793	26687213	12691895	17323147	32668360	15960856	0	0	0	(4)	192713715	583052427
Details o	Details of URS Credit for URS													URS sched	luled by oth	er SEBs	(26683	
i	Rate of FC for URS@ (Ps/Kwh)	55.58	161.62	65.25	64.94	112.37	141.50	154.22	78.65	100.13	140.88	124.16	1			•		
ii	URS in KWH	0	0			0	0	0	(20265)		0							
iii	URS in Rs	0	0		0	0	0	0	(15938)		0	-						
	Pooled Energy Charges (Ps/KWh)	1.58		REBATAB	BLE	560937345							TOTAL PA	YABLE (WF	R + SR) for	the month		583025744
1	Pooled Capacity Charges (Ps/kWh)	0.81		NON-REB	ATABLE	22088399											dtd. 08.07.14	671955
1	Pooled Total Charges (Ps/kWh)	2.39		Total Bill		583025744							NET PAYA			,		582353789
														, ,	ehalf of NT	PCItd		



N T P C LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 LC BILL RAISED IN THE MONTH OF SEP 2014

					•				ARTERS, MU		55							
						LC B	ILL RAIS	ED IN THE	E MONTH OF	SEP 2014						FAX to:	Executive Eng	
REF:	REA/2014-15/8.0		4-Sep-14														0832-2317810	/2313780
Bill No.	WR:14-15 : GOA	DATED:	6-Sep-14										USTOMER:		OA			
SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	2 RSTPS	
									APM: 3053946	APM: 3145452								
									N-APM:553789	RLNG: N-								
	Energy scheduled (KWH)	112206617	1410210	13550953	6088514	4404967	4825967	5904506	RLNG:	APM: 193223	14785402	3282085	0	0	0	0	64540909	
									AFW: 246.5 N-APM: 333.9	APM : 243.5								
	Energy Charges(Ps/KWH)	109.70	109.40	165.90	156.00	155.10	156.60	389.30	Lq : 0	RLNG : 909.8 N-APM : 328	130.40	126.70	298.70	311.80	169.40	250.20	249.300	
		100.10	100.40	100.00	100.00	100.10	100.00	000.00		N-APM : 328	100.40	120.10	200.10	011.00	100.40	200.20	240.000	
																		AMT(Rs)
01.	Capacity Charges	64621302	4129409	10824179		7376890	8088685			8844750	22504107	8100191	0	-	-	-		189196130
02.a.	Energy Charges	123090659	1542770	22481031	9498082	6832104	7557464			8292947	19280164	4158402	0	-	-	-		396058508
02.b.	MOPACharges	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	ů	0
03.	Incentive	0	(424011)	0	v	(1422735)		v	0	0	0	(443819)					2774474	483909
04.a.	ED&Cess on APC	7106176	212129	1275882	424245	460674	347846				762792	463762						11053506
04.b.	ED&Cess on Sales	0	0	0	0	0	0				0	0						0
	Total (Main Bills) Rs.	194818137	5460297	34581092	13853562	13246933	15993995	32919035	15298062	17137697	42547063	12278536	0	0	0	0	198657644	596792053
05.	ECR Rvsn-KST,MST,SPT,RST & MOPA-Jul14	2567465	73577	0	0	0	0	(68246)	36699	34217	(175004)	(89932)	0	0	0	0	(291970)	2086806
06.	RLDC Charges - Jun14	97362	3942	18922	7338	6243	7190	7189	7967	8131	10970	6205					115825	297284
07.	VST-1 CC Rvsn (2009-14)			(2138961)														(2138961)
08.	Interest on VST1 CC Rvsn			(509173)														(509173)
09.	Income Tax Refund FY 2004-05	(47288913)		(6514683)													(25292829)	(79096425)
10.	ECR Rvsn - RST1 (Jun14)																5030252	5030252
11.	TDS on a/c of SNo.(8)																	0
12.	Water Cess -VST1,MST1,Khs2			350103				8330										358433
13.	Gandhar Transportation Charges									(1777821)								(1777821)
14.		0															3	3
	Total supllimentary bill	(44624086)	77519	(8793792)		6243				(1735473				0	0	0	(20438719)	
15.	LC Bill (Gross) Rs.	150194051	5537816	25787300	13860900	13253176	16001185	32866308	15342728	15402224	42383029	12194809	0	0	0	0	178218925	521042451
16.																		
17.	Net LC Bill (Gross-Rebate)	150194051	5537816	25787300	13860900	13253176	16001185	32866308	15342728	15402224	42383029	12194809	0	0	0	0	178218925	521042451
Details o														Credit for	URS sched	luled by oth	ner SEBs	(669115)
i	Rate of FC for URS@ (Ps/Kwh)	56.60	164.19	66.51	65.98	114.17	143.76	156.68			143.12	126.14						
ii URS in KWH 0 0 (80499) 0 0 0 (13192) (222040) (268361) 0																		
iii URS in Rs 0 0 (53540) 0 0 0 0 0 (10323) (221174) (384078) 0																		
	Pooled Energy Charges (Ps/KWh) 1.66 REBATABLE 588938825 TOTAL PAYABLE (WR + SR) for the month													520373336				
	Pooled Capacity Charges (Ps/kWh)	0.80		NON-REBA	TABLE F	(68565489)	1								0.1% (Rs)	Bill dtd. 06	5.08.14	
	Pooled Total Charges (Ps/kWh)	2.46		Total Bill		520373336							NET PAYA	BLE (Rs.)				520373336
														For & on b	ehalf of NT	PC Ltd.		



N T P C LIMITED WESTERN REGION HEADQUARTERS, MUMBAI- 400093 LC BILL RAISED IN THE MONTH OF OCT 2014

Eff BCA2014-15500 DATED: 5-0c-14 Descaration						WES													
No. DATE:D: POATE:D: POATE:D: POATE:D: POATE:D: P							LC BI	LL RAISE		MONTHOF	OCT 2014						FAX to:		
No. PARTICULARS KSTPS 1 KSTPS 1 VSTPS 1 VSTP 1 VSTPS 1 VSTP 1	REF:																	0832-231/8	10/2313/80
Energy scheduled(Whf) 12718727 3316475 1800104 8108127 219665 679227 617288 Mark 13991 Mark 13991 Mark 13991 Mark 1											1020		-		-				
Energy cohoolood (VMH) 1271672 318475 1900 1100 8108127 2219655 672227 4017288 M-MM 3216 M-M 10001 M-MM 10011 5344222 M	SI.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1			SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	ISTPS	KhSTPS 2	RSTPS	
Energy Charges (PeKWH) 118.30 117.00 176.90 166.90 169.90 169.10 389.00 N=781:372 RM ST MARK NM ST MARK <td></td> <td>Energy scheduled(KWH)</td> <td>127187372</td> <td>3316475</td> <td>18601104</td> <td>8108127</td> <td>2219665</td> <td>6792267</td> <td>4017288</td> <td>N-APM:571969 Lq :</td> <td>RLNG: N-</td> <td>14002814</td> <td>5344232</td> <td>0</td> <td>0</td> <td>0</td> <td>-</td> <td>49865396</td> <td></td>		Energy scheduled(KWH)	127187372	3316475	18601104	8108127	2219665	6792267	4017288	N-APM:571969 Lq :	RLNG: N-	14002814	5344232	0	0	0	-	49865396	
C Capacity Charges 7102/062 551/048 2722/8579 548/779 4890035 1027/051 1168/740 588/148 8139830 2222/8556 102/8054 0 <td></td> <td>Energy Charges(Ps/KWH)</td> <td>118.30</td> <td>117.00</td> <td>176.90</td> <td>166.90</td> <td>169.80</td> <td>166.10</td> <td>389.60</td> <td>N-APM:337.8 Lq:884.9</td> <td>RLNG : 1000.7 N-</td> <td>131.20</td> <td>128.50</td> <td>298.70</td> <td>311.80</td> <td>169.40</td> <td>253.70</td> <td>236.100</td> <td></td>		Energy Charges(Ps/KWH)	118.30	117.00	176.90	166.90	169.80	166.10	389.60	N-APM:337.8 Lq:884.9	RLNG : 1000.7 N-	131.20	128.50	298.70	311.80	169.40	253.70	236.100	
2.a. Energy Oharges 150462661 3880276 32905353 13632464 3768991 11281965 15661364 13837492 6867338 0	01.	Conneit, Channes	71000562	FE10409	10726070	E 467770	4900952	10067103	11607140	5961149	9120920	22222556	10019054	0	0	0	0	24092694	AMT(Rs)
bb DOPA Charges O <	-													v	v		-		
I. Incombe Image: Construction of the construlic of the construction of the construction of the construlic of	02.a.				32905353			11281955	15651354		11217053		6867338	· ·		•	1		399023756
i.a. ED&Cess on APC 7977461 100260 911933 409736 296439 324771 Image: Comparison of the compari	02.b.		0	0	0	0	•	0	0	0	0	0	0	0	0	0	0	v	0
Lb. ED&Cess on Seles 0	03.						(• • • •)											(3611800)	· · · /
Total (Main Bills) Rs. 22440685 940944 46554165 19409979 8669996 21673829 2748503 19213567 19335683 41501036 17291899 0 0 0 0 149103084 609074570 5. CCR Rwsn-KST 10,SPT 12,VST & MOPA-Aug14 1795306 21153 81305 30442 22225 24130 (135604) 33770 13978 (8712) (19993) 0 <t< td=""><td>04.a.</td><td></td><td></td><td>100260</td><td>911933</td><td></td><td></td><td>324771</td><td></td><td></td><td></td><td></td><td>205607</td><td></td><td></td><td></td><td></td><td></td><td>11072995</td></t<>	04.a.			100260	911933			324771					205607						11072995
S. ECR Rvsn-KST 1/3.SPT 1/2.VST & MOPA-Aug14 1795306 21153 81306 30442 22025 24130 (135804) 33770 13978 (88712) (19693) 0	04.b.		0	0	0	ů	ů	0				0	0						0
S. RLDC Charges - Jult4 97562 3942 18957 7350 6249 7198 7198 7980 8143 10987 6213 74 15 25 114887 296666 . NLDC Charges FSTLKhst12 TST1 (Apr09-Mar14) (641) (16) (111) (40) (35) (20) (21) (21) (20) (21)														-		÷			
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SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks
		(Kwh)		
1	2	3	4	5
	M/sRGPPL			
1	April'2014	-	15,680,662	capacity charges
			9,452	RLDC charges
			789,162	delay payment charges
2	May'2014		16,860,171	capacity charges
			9,414	RLDC charges
			1,080,691	delay payment charges
3	June'2014		13,576,782	capacity charges
			9,148	RLDC charges
			1,069,912	delay payment charges
4	July'2014		10,519,207	capacity charges
			9,167	RLDC charges
			1,279,774	delay payment charges
5	August'2014		9,542,044	capacity charges
			9,167	RLDC charges
			1,863,984	delay payment charges
6	September'2014		1,964,050	capacity charges
			8,928	RLDC charges
			1,247,779	delay payment charges
	Tatal		75 500 404	
	Total	-	75,529,494	



SR.	Name of the Supplier/Agency	Units	Amount	Remarks
No	Name of the Supplier/Agency	Purchased	Amount	Kemarka
		(Kwh)		
1	2	3	4	5
	M/s NPCIL Tarapur, Thane			
1	April'2014	7,425,751	21,171,559	Energy bill
			795,480	revision December'13
			6,933	RLDC
			199,187	cess Sept'13 & Oct'13
2	May'2014	7,507,739	21,405,315	Energy bill
			6,887	RLDC
			3,927,648	supplimentary bill due to chane in Mat rate FY 2013-14
			136,176	operate charge for financial year 2014- 15
3	June'2014	6,577,189	18,752,224	Energy bill
			6,720	RLDC
			237.841	ULDC &NLDC CHARGES April'09 to March'2014
			,_	
4	July'2014	8,509,598	24,261,715	Energy bill
		274,363	782,236	Revision in June'2014 REA
		-		RLDC
5	August'2014	8,341,479	23,781,557	
				Credit revision in Tariff July'14
				RLDC
			432,747	water cess January' to April'14
6	September'2014	7,968,014	22,716,463	Energy bill
			6,513	RLDC
	Total	46,604,133	138,640,176	

Statement of Power Purchased Expenditure during the year 2014-15- NPCIL TAPS



SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks
		(Kwh)		
1	2	3	4	5
	M/s NPCIL Kakrapar, Surat			
1	April'2014	5,910,303	14,025,740	Energy bill
2	May'2014	7,536,224	17,884,213	Energy bill
				Reimbursement of return on equity
			3,239,180	due to chane in tax rate
				for year 2012 14
				for year 2013-14
3	June'2014	8,720,136	20,693,755	Energy bill
	1.1.1.2014	0.000.400	00.045.040	Enormy hill
6	July'2014	9,698,432	23,015,349	
			750,509	Revision in June'2014 REA
	A	0.050.004	04 054 540	
7	August'2014	8,953,004	21,251,746	
			28,963	difference in heavy water price revision 2014-15
			290,277	reimbursement of ULDC fees.
			, ,	
8	September'2014	9,677,731	22,972,030	Energy bill
	Total	50,495,830	124,151,762	



Statement of Power Purchased Expenditure during the year 2014-15 Goa Energy Pvt Ltd

SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks
		(Kwh)		
1	2	3	4	5
	M/s GEPL Amona/ptc			
1	April'2014	10,187,720	24,662,802	
2	May'2014	10,095,970	24,333,543	
3	June'2014	10,973,240	26,435,981	
4	July'2014	11,351,720	27,342,482	
5	August'2014	10,742,430	25,876,568	
6	September'2014	8,782,340	21,183,985	
	Total	62,133,420	149,835,361	

GSPL PURCHASE FOR FY 2014-15

Total	3,338,120	8,011,488
Sep-14	697,940	1,675,056
Aug-14	605,890	1,454,136
Jul-14	378,020	907,248
Jun-14	538,440	1,292,256
May-14	842,900	2,022,960
Apr-14	274,930	659,832
Month	Units Purchased from GSPL	Amount billed



SR. No	Name of the Supplier/Agenc y	Opening Balance	Units Purchased	Amount	Remarks
			(Kwh)		
1	2	3	4	5	11
	M/s Tata power	trading con	npany limited, No	ida	
	May'2014	-	616,250	2,169,200	Energy bill for short term power proccured on 28/04/2014
			220,000	774,400	Energy bill for short term power proccured on 29/04/2014
				711,751	Open access charges for the period from 28/04/2014 to 06/05/2014
			5,100,000	15,954,500	Energy bill for short term power proccured for period from 01/05/2014 to 08/05/2014
				424,155	open access charges form the period from 7/5/2014 to 9/5/2014
				282,770	Open access charges for the period from 10/05/2011 to 11/05/2011
			2,550,000	7,828,500	Energy bill for short term power proccured for period from 09/05/2014 to 11/05/2014
	Total	-	8,486,250	28,145,276	



M/s NVVNL, Noida.

SR. No	Units Purchased	Rate/Kwh	Amount	Remarks
	(Kwh)	including trading margin		
			361,884	short term open access for banking of power for the period from 01/04/2014 to 15/04/2014
	3,435,360	3.32	11,405,395	Energy bill for period 16/04/2014 to 23/04/2014 (8 days)
	4,455,040	3.32	14,790,733	Energy bill for period 24/04/2014 to 30/04/2014(7 days)
	9,399,920	3.32	31,207,734	Energy bill for the period from 01/05/2014 to 08/05/2014(8 days)
	8,215,160	3.32	27,274,331	Energy bill for period 09/05/2014 to 15/05/2014(7 days)
	8,539,800	3.32	28,352,136	Energy bill for period 16/05/2014 to 23/05/2014(7 days))
	2,141,660	3.32	7,110,311	Energy bill for period 24/05/2014 to 31/05/2014 (8 days)
	5,032,350	3.29	16,556,432	Energy bill for period 01/08/2014 to 08/08/2014(8 days)
	5,035,800	3.29	16,567,782	Energy bill for period 09/08/2014 to 15/08/2014(8 days)
	4,316,680	3.29	14,201,877	Energy bill for period 16/08/2014 to 23/08/2014(8 days)
	5,748,180	3.29	18,911,512	Energy bill for period 24/08/2014 to 30/08/2014(8 days)
	56,319,950		186,740,128	



SR. No	Units Purchased	Rate/Kwh	Amount	Remarks
	(Kwh)	including trading margin		
M/s PTC S	ТОА			
1	2,099,835	3.38	7,097,442	Energy bill for period 01/06/2014 to 08/06/2014
2	3,142,720	3.38	10,622,394	Energy bill for period 09/06/2014 to 15/06/2014
3	3,102,120	3.38	10,485,166	Energy bill for period 16/06/2014 to 23/06/2014
4	2,749,810	3.38	9,294,358	Energy bill for period 24/06/2014 to 30/06/2014
5	2,859,165	3.34	9,550,084	Energy bill for period 01/07/2014 to 08/07/2014 & final bill June'2014
6	4,006,160	3.34	13,380,574	Energy bill for period 09/07/2014 to 15/07/2014
7	4,967,540	3.34	16,591,584	Energy bill for period 16/07/2014 to 23/07/2014
8	391,200	3.34	1,306,608	additional power on 22/07/2014
9	5,163,840	3.34	17,247,226	Energy bill for period 24/07/2014 to 31/07/2014
10	4,375,280	4.44	19,426,243	Energy bill for period 01/09/2014 to 08/09/2014
11	3,832,640	4.44	17,016,922	Energy bill for period 09/09/2014 to 15/09/2014
12	4,222,520	4.44	18,747,989	Energy bill for period 16/09/2014 to 23/09/2014
13	3,098,200	4.44	13,756,008	Energy bill for period 24/09/2014 to 30/09/2014
	44,011,030		164,522,597	



UI charges Western region

year-2014-15

Sr.no.	week	UI payable	units	Rate	UI receivable	units	Rate
			in Mus			in Mus	
1st	31/03/2014 -06/04/2014				2,135,467	0.27	7.88
2nd	07/04/2014-13/04/2014				192,993	0.59	0.33
3rd	14/04/2014 -20/04/2014	11,354,806	4.28	2.65			
4th	21/04/2014-27/04/2014	24,176,986	6.67	3.63			
5th	28/04/2014-04/05/2014	18,438,218	6.12	3.01			
6th	05/05/2014-11/05/2014	1,560,184				1.21	
7th	12/05/2014-18/05/2014	9,435,058	2.92	3.23			
8th	19/05/2014-25/05/2014				6,586,688	3.18	2.07
9th	26/05/2014 to 01/06/2014	17,191,823	6.03	2.85			
10th	02/06/2014 to 08/06/2014(R1)	25,089,533	5.48	4.58			
11th	09/06/2014 to 15/06/2014	18,178,288	3.85	4.72			
12th	16/06/2014 to 22/06/2014	3,289,302	1.30	2.53			
13th	23/06/2014 to 29/06/2014(R1)	45,535,221	8.72	5.22			
14th	30/06/2014to 06/07/2014(R1)	21,036,261	6.17	3.41			
15th	07/07/2014 to 13/07/2014	25,043,662	4.52	5.54			
16th	14/07/2014 to 20/07/2014	5,611,911	1.69	3.31			
17th	21/07/2014 to 27/07/2014	23,925,703	4.75	5.04			
18th	28/07/2014 to 03/08/2014	36,034,929	9.21	3.91			
19th	04/08/2014 to 10/08/2014	21,777,959	5.90	3.69			
20th	11/08/2014 to 17/08/2014	27,263,600	6.77	4.03			
21st	18/08/2014 to24/08/2014	83,821,180	10.42	8.04			
22nd	25/08/2014 to 31/08/2014				1,366,894	3.45	0.40
23rd	01/09/2014 to07/09/2014	6,889,517	2.08	3.32			
24th	08/09/2014to14/09/2014	17,618,501	4.51	3.91			
25th	15/09/2014to 21/09/2014	9,051,556	2.92	3.10			
26th	22/09/2014 to 28/09/2014	7,734,347	2.06	3.76			
Total A		460,058,545	106.35	4.33	10,282,042	8.70	1.18
	Net Total - WR	460,058,545	106		10,282,042	9	
	Net Total - SR	63,698,505	10		1,403,134	8	
	Net Total - WR + SR	523,757,050	116.54		11,685,176	16.51	
	Net Transaction - WR + SR	512,071,874	100				



UI charges Southernregion

year-2014-15

Sr.no.	week	UI payable	units	Rate	UI receivable	units	Rate	Remarks
			in Mus			in Mus		
1st	31/03/2014 -06/04/2014	2,896,378	0.86	3.37				
2nd	07/04/2014-13/04/2014	1,769,093	0.63	2.79				
3rd	14/04/2014 -20/04/2014	1,771,740	0.08	23.33				
4th	21/04/2014-27/04/2014	4,099,425	0.78	5.22				
5th	28/04/2014-04/05/2014	4,787,519	1.58	3.02				
6th	05/05/2014-11/05/2014	2,257,206	0.68	3.30				
7th	12/05/2014-18/05/2014	3,057,710	0.54	5.69				
8th	19/05/2014-25/05/2014	4,386,627	0.17	25.27				
9th	26/05/2014 to 01/06/2014	3,063,226	0.88	3.50				
10th	02/06/2014 to 08/06/2014	2,067,550	0.16	12.63				
11th	09/06/2014 to 15/06/2014	275,854				0.1980		
12th	16/06/2014 to 22/06/2014				138,586.0000	1.3825	0.1002	
13th	23/06/2014 to 29/06/2014	5,272,577	0.77	6.88				
14th	30/06/2014 to 06/07/2014	4,265,434	0.75	5.72				
15th	07/07/2014 to 13/07/2014	2,520,297	0.31	8.15				
16th	14/07/2014 to 20/07/2014				643,733.0000	1.1095	0.5802	
17th	21/07/2014 to 27/07/2014	2,138,644	0.36	5.87				
18th	28/07/2014 to 03/08/2014	190,653				0.8020		
19th	04/08/2014 to 10/08/2014	2,655,034				1.3739		
20th	11/08/2014 to 17/08/2014	2,487,955	0.14	17.56				
21st	18/08/2014 to24/08/2014	2,943,121				0.0404		
22nd	25/08/2014 to 31/08/2014				620,815.0000	2.6940	0.2304	
23rd	01/09/2014 to 07/09/2014	1,179,144	0.24	4.82				
24th	08/09/2014 to 14/09/2014	1,859,732				0.2078		
25th	15/09/2014to 21/09/2014	2,035,353	0.39	5.18				
26th	22/09/2014 to 28/09/2014	3,693,701	0.85	4.33				
27th	29/09/2014 t 05/10/2014	2,024,532						
Total A		63,698,505	10.19	6.25	1,403,134.0000	7.8080	0.1797	
Total A+B								
	revision							
	02/06/2014 to 08/06/2014	(605,520.00)						
	09/06/2014 to 13/06/2014	349,424.00						



SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks
		(Kwh)	Rs.	
1	2	4	5	6
	M/s NVVNL Noida			
			51,651	Open access charges for the period from 28/08/2014 to 01/09/2014
			22,444	Open access charges for the period from 02/09/2014 to 03/09/2014
			22,638	Open access charges for the period from 04/09/2014 to 05/09/2014
			58,497	Open access charges for the period from 06/09/2014 to 11/09/2014
			59,174	open access charges form the period from 12/09/2014 to 20/09/2014
			71,996	Open access charges for the period from 21/09/2014 to 30/09/2014
		46,825	374,132	Energy bill from 28/08/2014 to 31/08/2014
		330,000	2,636,700	Energy bill from 01/09/2014 to 15/09/2014
		370,750	2,962,293	Energy bill from 16/09/2014 to 30/09/2014
	Total	747,575	6,259,525	



Annexure V: Month wise Transmission Charges Details – FY 2013-14

Summary of Transmission Charges (WR + SR + KPTCL + Others) for FY 2014-15

S.no	Name of the Supplier/ Agency	Amount	Remarks
1	M/s PGCIL WR, Nagpur	495,547,896	POC Charges
2	M/s PGCIL SR, Banglore	110,493,881	POC Charges
3	M/s KPTCL, Banglore	26,682,910	wheeling charges
4	M/s POSOCO WR	2,575,771	Fees and charges of SLDC
5	M/s POSOCO SR	2,302,940	Fees and charges of SLDC
6	M/s POSOCO WR	3,655,781	SCADA charges
7	M/s MSEDCL	-	reactive charges
8	M/s POSOCO WR	151,045	Reactive charges
9	M/s MSETCL (RGPPL)	13,300,002	wheeling charges
	Total	654,710,226	

Statement of Western Region Transmission Charges during the year 2014-15

SR. No	Name of the Supplier/Agency	Amount	Remarks
1	2	3	4
	M/s PGCIL WR, Nagpur		
1	April'2014	73,065,292	POC bill for the month April'2014
2	May'2014	74,282,790	POC bill for the month May'2014
		945,180	Deviation charges February'2014
		443,570	Deviation March'2014
		9,885,310	Bill 3 (January'2014 to
		9,000,010	March'2014)
		2,943,999	ULDC bills and differential bills
3	June'2014	74,051,781	POC month June'2014
4	July'2014	73,776,633	POC month July'2014
5	August'2014	778,787	supplimentary bill
		72,971,353	POC charges for August'2014
		40,489,742	Bill 3 final (April'2014 to
		40,409,742	June'2014)
6	September'14	71,913,459	POC charges for September'2014
	Total	495,547,896	



Statement of Southern Region Transmission Charges during the year 2014-15

SR. No	Name of the Supplier/Agency	Amount	Remarks
1	2	3	4
	M/s PGCIL SR, Banglore		
1	April'2014	1,222,910	Differential bill
		12,531,441	POC bill for the month April'2014
2	May'2014	13,958,052	POC bill for the month May'2014
		249,460	Deviation March'2014
		407,661	Deviation April'2014
		22,445,687	Bill 3 (January'2014 to March'2014)
3	June'2014	13,519,142	POC month June'2014
4	July'2014	13,867,677	POC month July'2014
5	August'2014		
		13,850,770	POC charges for August'2014
		4,829,410	Bill 3 final (April'2014 to June'2014)
6	September'14	13,611,671	POC charges for September'2014
	Total	110,493,881	

Statement of KPTCL Wheeling Charges during the year 2014-15

SR.	Name of the	Units	Amount	Remarks	
No	Supplier/Agency	Purchased	<i>y</i> unound		
		(Kwh)			
1	2	3	4	5	
	M/s KPTCL, Banglore ()	Wheeling charg	ges)		
1	Apr-14		5,244,200	wheeling march'14	
2	May-14		5,087,574	wheeling April'14	
3	Jun-14		4,093,571	wheeling May'14	
4	Jul-14		4,153,425	wheeling June'14	
5	Aug-14		3,569,744	wheeling July'14	
6	Sep-14		4,534,396	wheeling August'14	
	Total	-	26,682,910		



St	Statement of MSETCL Wheeling Charges during the year 2014-15				
SR. No	Name of the Supplier/Agency	Units Purchased	Amount	Remarks	
		(Kwh)			
1	2	3	4	5	
	M/s MSETCL, Mumbai (Wheeling charges)				
1	Apr-14	2,216,667			
2	May-14	2,216,667			
3	Jun-14	2,216,667			
4	Jul-14	2,216,667			
5	Aug-14	2,216,667			
6	Sep-14	2,216,667			
	Total	13,300,002	-		

SR. No	Name of the Supplier/Agency	Opening Balance	Units Purchased	Amount	Remarks
			(Kwh)		
1	2	3	4	5	11
	M/s POSOCO WR (fees & Charges)				
1	April'2014			434,747	
2	May'2014			432,298	
3	June'2014			429,157	
4	July'2014			427,345	
5	August'2014			427,328	
6	September'2014			424,896	
	Total		-	2,575,771	

Statement of Power Purchased Expenditure during the year 2014-15

SR. No	Name of the Supplier/Agency	Opening Balance	Units Purchased	Amount	Remarks
			(Kwh)		
1	2	3	4	5	6
	M/s POSOCO SR (fees & Charges)				
1	April'2014			404,304	
2	May'2014			393,262	
3	June'2014			391,688	
4	July'2014			373,895	
5	August'2014			369,995	
6	September'2014			369,796	
	Total		0	2,302,940	



Annexure VI: SBI PLR Rate



INTEREST RATES

State Bank of India provides information on the various Interest rates offered by it on various loans and deposit schemes.

Details of Up-to-date interest rates scheme-wise is given in the sections one could click on to.

"Please call SBI's 24X7 helpline through Toll free 1800 11 2211, 1800 425 3800 or Toll number 080-26599990 These are accessible from all landlines and mobile phones in the country"

*	Domestic deposits (below Rs one crore) interest rates revised w.e.f. 01.11.2013.
*	Domestic deposits (Rs one crore & above) interest rates revised w.e.f. 01.11.2013.
*	Benchmark Prime Lending Rate (BPLR): 14.55% with effect from 19.09.2013 and 14.75% with effect from 7.11.2013.
*	Base Rate: 9.80% with effect from 19.09.2013 and 10.00% with effect from 7.11.2013 .

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Annexure VII: RBI Bank Rate Notification



भारतीय रिज़र्व बैंक RESERVE BANK OF INDIA

www.rbi.org.in

RBI/2013-14/468 DBOD.No.Ret.BC.88/12.01.001/2013-14

January 28, 2014

All Scheduled Commercial Banks

& Local Area Banks

Dear Sir,

Bank Rate

Please refer to our <u>circular DBOD.No.Ret.BC.64/12.01.001/2013-14 dated October 29,</u> 2013 on the subject.

2. Consequent to the increase in the policy repo rate under the Liquidity Adjustment Facility (LAF) as announced in the <u>Third Quarter Review of Monetary Policy 2013-14</u> <u>dated January 28, 2014</u>, the Bank Rate stands adjusted by 25 basis points from 8.75 per cent to 9.0 per cent with effect from January 28, 2014.

All penal interest rates on shortfall in reserve requirements, which are specifically linked to the Bank Rate, also stand revised as indicated in Annex.

4. Please acknowledge receipt.

Yours faithfully

(Sudha Damodar) Chief General Manager

Encl: as above



Annexure VIII: Letter to Government for Security Deposit

TIME BOUND / MOST URGENT

No. CEE/Accts-100(SD-Int)/2013-14/ 2780 Office of the Chief Electrical Engineer, Govt. of Goa, Vidyut Bhavan, 4th floor, Panaji – Goa. Dated: 17 / 10 /2014

To, The Dy. Director of Accounts, A.C. & D Section, Directorate of Accounts, Panaji – Goa.

Sub:- Request for budget provision in Supplementary grants for the financial year 2014-15 for crediting interest on Security deposit of consumers.

Ref:- Govt. Circular No. 1/15/2013/Fin (Bud) dated 03/09/2013

Sir / Madam,

Please refer the above Government circular issued by the Finance Budget Department, Secretariat, Porvorim endorsed to your office vide this office circular No. CEE/Accts-4(Bud)/2013-14/2471 dated 17/09/2013 (Copy enclosed for ready reference).

As per the above Govt. circular, this Department has to credit the interest on Security Deposit of the consumers held by this department for the financial year ending 31/03/2012, 31/03/2013 and 31/03/2014. This interest amount has to be shown as credit in the consumers bills of May / June of 2015.

In this connection, you are requested to make the budget provision for total ₹ 8,62,46,936/- (Rupees eight crores sixty two lakhs forty six thousand nine hundred thirty six only) in the supplementary grants for the financial year 2014-15 under the BH: 2049- Interest Payments, 60- Interest on Other obligation, 101- Interest on Deposits, 10- Interest on Consumers Security Deposits, 45- Interest (Charged) for payment of interest on the Security Deposits of the consumers held by this Department.

Further, as soon as the necessary funds are provided by Government in Supplementary grants for the year 2014-15, necessary adjustment transfer entry should be proposed by debiting 2049 and crediting 8336, under intimation this Department.

Yours faithfully,

PID (Lekshmanan 8 Chief Electrical Engineer

Encl: Detailed statement of security deposit interest.



Review for FY 2014-15, MYT Petition for FY 2015-16 to FY 2017-18 & Tariff Proposal for FY 2015-16

Annexure IX: Public Awareness in Local News Papers





HELP US TO SERVE YOU BETTER

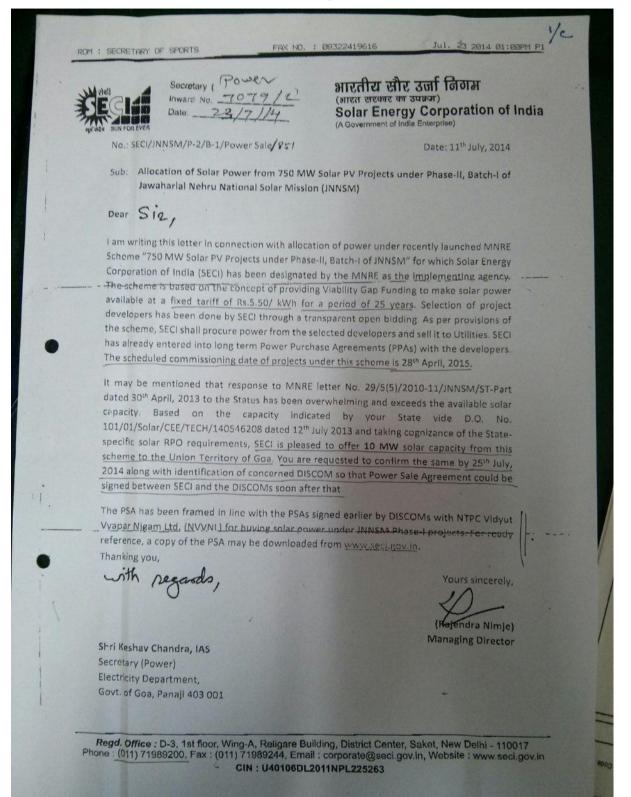
PRECAUTIONS TO BE TAKEN DURING THE MONSOON

- Keep a safe distance from electric poles, transformers structures and lines.
- Do not tie cattle and animals to electric poles, stay wires, structures and other supports carrying electrical wires.
- 3) Do not touch any power line conductor found lying on the ground or dangling from poles due to snapping, if found so, cordon off that area and intimate the Officials on duty at the nearest office of the Department.
- Please report any sparking of lines, glowing observed on the poles or structures to our nearest office.
- In case of Electrical Accident or shock, report immediately to the Officials on duty at our nearest office.
- 6) Please ensure that coconut tree leaves/branches of trees planted by you do not come in close proximity to or touch the electric lines as it can be dangerous to you. Please contact our nearest office for assistance for trimming trees, belonging to you in the vicinity of overhead distribution lines.

For public assistance please contact the nearest Sub-Station/Office of the Electricity Department.



Annexure X: Power Sale Agreement from SECI





TARIFF FILING FORMATS

FOR FY 2013-14 to FY 2017-18

ELECTRICITY DEPARTMENT, GOA