

**PETITION TO
HON'BLE JOINT ELECTRICITY REGULATORY
COMMISSION FOR
APPROVAL OF AGGREGATE REVENUE
REQUIREMENT (ARR)
FOR 2013-14
OF
ELECTRICITY DEPARTMENT, GOA
ARR PETITION & FORMATS**

**Submitted to
JOINT ELECTRICITY REGULATORY COMMISSION,
GURGAON**

By



**ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA
PANAJI**

JANUARY 2013

**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 the Aggregate Revenue Requirement (ARR) for FY 2013-14 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 Revenue Requirement (ARR) for FY 2013-14 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**

Filing No.....

Case No.....

IN THE MATTER OF: Petition for Approval of the Aggregate Revenue Requirement (ARR) for FY 2013-14 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,
Goa

.....Petitioner

AFFIDAVIT VERIFYING THE PETITION

I, **Shri Nirmal Braganza** son of **Charles Braganza**, aged 64 years residing at Taleigao, 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 – Goa and is authorised to sign and submit the said petition, and is acquainted with the facts deposed to below.
2. I say that on behalf of ED-Goa, I am now filing this Petition under The Electricity Act, 2003 for approval of the Aggregate Revenue Requirement (ARR) for FY 2013-14 for its Licensee Area in FY 2013-14.
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 believed 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: 31st January 2013

VERIFICATION

I, Shivprasad V. Manerkar 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 31 day of January 2013 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 for Approval of the Aggregate Revenue Requirement (ARR) for FY 2013-14 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,
Goa

.....Petitioner

PETITIONER, UNDER SECTIONS 45, 46, 61, 62 AND 64 OF THE ELECTRICITY ACT, 2003 FILES FOR INITIATION OF PROCEEDINGS BY THE HON'BLE COMMISSION FOR DECIDING ON THE MATTERS CONCERNING THE APPROVAL OF THE ANNUAL REVENUE REQUIREMENT OF ELECTRICITY DEPARTMENT OF GOA (herein after referred to as "ED-Goa") FOR FY 2013-14.

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.
2. Pursuant to the enactment of the Electricity Act, 2003, ED-Goa is required to submit its Annual Revenue Requirement (ARR) and Tariff Petition as per the procedures outlined in section 61, 62 & 64 of EA 2003, and the governing regulations thereof.
3. ED-Goa submitted its ARR and Tariff petition for determination of tariff for FY 2012-13 on 31st December 2011 on the basis of the principles outlined in the Tariff Regulations 2009 notified by the Hon'ble Commission. Thereafter, ED-Goa submitted a tariff proposal by 5th April 2012. Further, on the directives of the Hon'ble Commission ED-Goa submitted a Simplified Tariff Schedule on 30th April 2012.



4. ED-Goa had filed application for condonation of delay vide its letter no. 120/3/JERC/ARR 2013-14/CEE/Tech/926 dated 29-11-2012 seeking extension upto 31-12-2012 and further vide Affidavit dated 31-12-2012 seeking extension upto 31-01-2013 before Hon'ble Commission.
5. ED-Goa hereby submits the present petition for ARR for FY 2013-14 based on the principles outlined in the Tariff Regulations 2009 notified by the Hon'ble Commission.
6. ED-Goa prays to the Hon'ble Commission to admit the attached petition for ARR Petition for FY 2013-14 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 ARR for the FY 2013-14, 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. In order to align the thoughts and principles behind the ARR and Tariff Petition, ED-Goa respectfully seeks an opportunity to present their 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 Annual Revenue Requirement petition for the FY 2013-14 for ED-Goa formulated in accordance with the guidelines outlined as per the regulation of Joint Electricity Regulatory Commission relating to Distribution Licensee and the principles contained in Tariff Regulations;
- Approve the total projected ARR of FY 2013-14;



- Examine the proposal submitted by the petitioner as detailed in the enclosed proposal for a favourable dispensation.
- The delay in filing this ARR 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 the ARR for FY 2013-14 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 ARR and Tariff Petition and the mechanism of meeting the revenue on further analysis, prior to the final approval by the Hon'ble Commission;
- 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: 31st January 2013



TABLE OF CONTENTS

CHAPTER 1. INTRODUCTION 9

1.1 HISTORICAL PERSPECTIVE 9

1.2 BACKGROUND OF ELECTRICITY DEPARTMENT 9

1.3 MEASURES TO INCREASE POWER AVAILABILITY 12

1.4 FILING OF ARR AND TARIFF PETITION FOR THE YEAR FY 2012-13..... 13

1.5 FILING OF ARR AND TARIFF PETITION FOR THE YEAR FY 2013-14..... 14

1.6 COMPLIANCE TO 3RD OCT 2012 JERC LETTER 14

CHAPTER 2. OVERALL APPROACH FOR PRESENT FILING..... 18

2.1 TRUE - UP FOR FY 2011-12 18

2.2 ANNUAL PERFORMANCE REVIEW FOR FY 2012-13 18

2.3 ANNUAL REVENUE REQUIREMENT AND TARIFF PETITION FOR FY 2013-14..... 18

2.4 APPROACH FOR FILING ARR AND TARIFF PETITION FOR FY 2013-14..... 19

CHAPTER 3. ACTUALS FOR FY 2011-12 20

3.1 ACTUAL PERFORMANCE FOR FY 2011-12 20

CHAPTER 4. ANNUAL PERFORMANCE REVIEW FOR FY 2012-13 21

4.1 BACKGROUND TO FY 2012-13 PETITION 21

4.2 REVIEW FOR FY 2012-13 21

4.3 NUMBER OF CONSUMERS 22

4.4 CONNECTED LOAD..... 24

4.5 ENERGY SALES 25

4.6 DISTRIBUTION LOSS & ENERGY REQUIREMENT..... 26

4.7 POWER PURCHASE QUANTUM & COST FOR FY 12-13..... 31

4.8 OPERATION & MAINTENANCE EXPENSES 43

4.9 CAPITAL WORK IN PROGRESS, GFA AND DEPRECIATION 47

4.10 INTEREST & FINANCE CHARGE 49

4.11 INTEREST ON WORKING CAPITAL..... 50

4.12 INTEREST ON SECURITY DEPOSIT..... 51

4.13 RETURN ON CAPITAL BASE/ NET FIXED ASSETS 52

4.14 CGRF EXPENSE 52

4.15 NON TARIFF INCOME 53

4.16 REVENUE FROM SALE OF SURPLUS POWER..... 53

4.17 FUEL & POWER PURCHASE COST ADJUSTMENT (FPPCA)..... 53

4.18 REVENUE FROM SALE OF POWER AT EXISTING TARIFF..... 54

4.19 AGGREGATE REVENUE REQUIREMENT FOR FY 2012-13..... 55

CHAPTER 5. ANNUAL REVENUE REQUIREMENT FOR FY 2013-14 56

5.1 NUMBER OF CONSUMERS & CONNECTED LOAD: 56

5.2 ENERGY SALES 57



5.3	DISTRIBUTION LOSSES & ENERGY REQUIREMENT.....	59
5.4	POWER PURCHASE QUANTUM & COST FY 2013-14.....	61
5.5	OPERATION AND MAINTENANCE (O&M) EXPENSES	68
5.6	CAPITAL WORK IN PROGRESS, GFA AND DEPRECIATION	70
5.7	INTEREST & FINANCE CHARGES.....	73
5.8	INTEREST ON WORKING CAPITAL.....	74
5.9	INTEREST ON SECURITY DEPOSIT.....	75
5.10	RETURN ON CAPITAL BASE/ NET FIXED ASSETS.....	76
5.11	CGRF EXPENSE	76
5.12	NON-TARIFF INCOME.....	76
5.13	REVENUE FROM SALE OF SURPLUS POWER.....	77
5.14	REVENUE FROM EXISTING TARIFF	77
5.15	SUMMARY OF ANNUAL REVENUE REQUIREMENT.....	78
CHAPTER 6. PROPOSAL TO MEET ARR FOR FY 2013-14.....		80
6.1	REVENUE GAP FOR FY 2012-13.....	80
6.2	REVENUE GAP FOR FY 2013-14.....	80
6.3	TARIFF PROPOSAL	80
CHAPTER 7. PROPOSED TARIFF SCHEDULE FOR FY 2013-14		81
7.1	GENERAL CONDITIONS AND DEFINITIONS	81
7.2	TARIFF SCHEDULE – LT CONSUMERS.....	83
7.3	TARIFF SCHEDULE – HT CONSUMERS.....	87
7.4	TARIFF – TEMPORARY SUPPLY	91
7.5	SCHEDULE OF MISCELLANEOUS CHARGES.....	92
CHAPTER 8. COMPLIANCE TO DIRECTIVES GIVEN BY JERC		94
8.1	ANNUAL STATEMENTS OF ACCOUNTS.....	94
8.2	PREPARATION OF ASSET AND REGISTER	94
8.3	ENERGY AUDIT AND T&D LOSSES.....	94
8.4	METERING OF CONSUMER INSTALLATIONS / REPLACEMENTS OF NON – FUNCTIONAL OR DEFECTIVE METERS	95
8.5	DEMAND SIDE MANAGEMENT AND ENERGY CONSERVATION	95
8.6	EMPLOYEE COST / MANPOWER STUDY.	95
8.7	INTEREST ON SECURITY DEPOSIT.....	96
8.8	BILL PAYMENT.....	96
8.9	CAPITAL EXPENDITURE	96
8.10	DATA ON THE CONSUMPTION AND LOAD PROFILE OF ADVERTISEMENT HOARDINGS, SIGN BOARDS, SIGN-AGES ETC.	97
8.11	ASSESSMENT OF THE OPEN ACCESS CONSUMERS.....	97
8.12	SHORT TERM POWER PROCUREMENT OF POWER BY LICENSEE.....	97
8.13	STANDARD OF PERFORMANCE	97



LIST OF TABLES

TABLE 1-1: PRESENT POWER ALLOCATION OF CENTRAL SECTOR STATIONS (WR+SR) 10

TABLE 1-2: FUTURE POWER ALLOCATION FROM MOP (MW)..... 13

TABLE 1-3: PPA EXECUTED WITH CENTRAL SECTOR POWER PROJECTS..... 13

TABLE 1-4: COMPLIANCE TO 3RD OCT 2012 JERC LETTER 14

TABLE 3-1: AGGREGATE REVENUE REQUIREMENT FOR FY 2011-12 20

TABLE 4-1: ARR APPROVED BY JERC – FY 2012-2013 22

TABLE 4-2: NUMBER OF CONSUMERS – FY 2012-13 23

TABLE 4-3: CONNECTED LOAD – FY 2012-13 24

TABLE 4-4: SALES FOR FY 2012-13 26

TABLE 4-5: ENERGY INPUT FOR WR & SR: FY 12-13 – H1 27

TABLE 4-6: ENERGY BALANCE FOR H1 (APR 12 – SEPT 12)..... 28

TABLE 4-7: PGCIL LOSS FOR WESTERN REGION FOR FY 13 (52 WEEK LOSSES) 29

TABLE 4-8: ENERGY BALANCE FOR FY 12- 13..... 31

TABLE 4-9: POWER PURCHASE QUANTUM & COST FOR H1 – FY 13 32

TABLE 4-10: UI (OVER DRAWAL & UNDER DRAWAL) CHARGES FOR FY 13 – H1..... 32

TABLE 4-11: UI (OVER DRAWAL & UNDER DRAWAL) CHARGES – WESTERN REGION FOR FY 13 H1 33

TABLE 4-12: UI (OVER DRAWAL & UNDER DRAWAL) CHARGES – SOUTHERN REGION FOR FY 13 H1 33

TABLE 4-13: TRANSMISSION CHARGES FOR FY 2012-13 H1..... 34

TABLE 4-14: POWER PURCHASE QUANTUM FOR FY 2012-13 35

TABLE 4-15: FIXED COST OF POWER PURCHASE FOR FY 2012-13 36

TABLE 4-16: RPO FOR FY 2010-11 TO FY 2015-16 38

TABLE 4-17: TRANSMISSION CHARGES PART-A FOR FY 2012-13 (OCT – MAR 13)..... 40

TABLE 4-18: TRANSMISSION CHARGES PART-B FOR FY 2012-13 (OCT – MAR 13) 41

TABLE 4-19: SUMMARY OF TRANSMISSION CHARGES FOR FY 2012-13 (OCT – MAR 13)..... 41

TABLE 4-20: POWER PURCHASE SUMMARY FOR FY 2012-13 42

TABLE 4-21: NET POWER PURCHASE COST PER UNIT FOR FY 2012-13 42

TABLE 4-22: POWER PURCHASE COST REVISED ESTIMATES COMPARISON FOR FY 2012-13 43

TABLE 4-23: WHOLESALE PRICE INDEX COMPUTATION FOR FY 2011-12 44

TABLE 4-24: O&M EXPENSES FOR FY 2012-13..... 46

TABLE 4-25: CAPITAL EXPENDITURE FOR FY 2012-13..... 47

TABLE 4-26: CWIP FOR FY 2012-13..... 48

TABLE 4-27: DETAILS OF GFA FOR FY 2012-13 48

TABLE 4-28: DEPRECIATION FOR FY 2012-13 49

TABLE 4-29: INTEREST & FINANCE CHARGES FOR FY 2012-13 50

TABLE 4-30: INTEREST ON WORKING CAPITAL FOR FY 2012-13 51

TABLE 4-31: INTEREST ON SECURITY DEPOSIT FOR FY 2012-13 51

TABLE 4-32: RETURN ON CAPITAL BASE FOR FY 2012-13..... 52

TABLE 4-33: REVENUE FROM SALE OF POWER FOR FY 2012-13 54

TABLE 4-34: AGGREGATE REVENUE REQUIREMENT FOR FY 2012-13 55

TABLE 5-1: NUMBER OF CONSUMERS & CONNECTED LOAD – FY 2013-14 57

TABLE 5-2: CAGR (5 YEAR) & ASSUMED GROWTH RATE 58

TABLE 5-3: CATEGORY WISE SALES FOR FY 2013-14 59

TABLE 5-4: ENERGY BALANCE FOR FY 2013-14 60

TABLE 5-5: REDUCED SCHEDULING FROM CGS – FY 2013-14 62

TABLE 5-6: POWER PURCHASE QUANTUM FROM CGS 63

TABLE 5-7: FIXED COST FOR POWER PURCHASE COST FOR FY 2013-14 64



TABLE 5-8: POWER PURCHASE COST CO-GENERATION FOR FY 2013-14	65
TABLE 5-9: TRANSMISSION CHARGES – PART A (FY 2013-14)	66
TABLE 5-10: TRANSMISSION CHARGES – PART B (FY 2013-14)	66
TABLE 5-11: TOTAL TRANSMISSION CHARGES (FY 2013-14)	67
TABLE 5-12: SUMMARY OF POWER PURCHASE EXPENSES FOR FY 2013 – 14	67
TABLE 5-13: NET POWER PURCHASE COST PER UNIT FOR FY 2013-14	68
TABLE 5-14: A&G EXPENSES FOR FY 2013 – 14	69
TABLE 5-15: R&M EXPENSES FOR FY 2013-14	70
TABLE 5-16: O&M EXPENDITURE – FY 2013-14	70
TABLE 5-17: CAPITAL EXPENDITURE & CAPITALISATION FY 2013-14	71
TABLE 5-18: DETAILS OF CAPITAL WORKS-IN-PROGRESS FOR FY 2013-14	72
TABLE 5-19: DETAILS OF GFA FOR FY 2013-14	72
TABLE 5-20: DEPRECIATION FOR FY 2013-14	73
TABLE 5-21: INTEREST & FINANCE CHARGES FOR FY 2013-14	74
TABLE 5-22: INTEREST ON WORKING CAPITAL FOR FY 2013-14	75
TABLE 5-23: INTEREST ON SECURITY DEPOSIT (RS. CRS)	75
TABLE 5-24: INTEREST ON SECURITY DEPOSIT	76
TABLE 5-25: REVENUE FROM EXISTING TARIFF FY 2013-14	77
TABLE 5-26: ARR FOR FY 2013-14	78
TABLE 5-27: REVENUE GAP FOR FY 2013-14	78



LIST OF FIGURES

FIGURE 1: EXISTING EHV INFRASTRUCTURE..... 11
FIGURE 2: WHOLESALE PRICE INDEX ANNUAL DATA 45

LIST OF ANNEXURES

ANNEXURE I: POWER ALLOCATION STATEMENTS 98
ANNEXURE II: SUSPENSION ORDER ON MINING ACTIVITIES..... 101
ANNEXURE III: SRPC LETTER ON TRANSMISSION LOSS 103
ANNEXURE IV: MONTH WISE POWER PURCHASE DETAILS – FY12-13 (H1) 104
ANNEXURE V: MONTH WISE TRANSMISSION CHARGES DETAILS – FY12-13 (H1)..... 117
ANNEXURE VI: RBI BANK RATE NOTIFICATION..... 120
ANNEXURE VII: LGBR Q4 JAN-MARCH 2013 121
ANNEXURE VIII: FORMAT FOR ASSET & DEPRECIATION INFORMATION..... 130
ANNEXURE IX: PROPOSAL FOR PAYMENT OF INTEREST ON CONSUMER SECURITY DEPOSIT 131
ANNEXURE X: BILL PAYMENT CENTRES 134
ANNEXURE XI: FPPCA CHARGES FOR 1ST QUARTER..... 140
ANNEXURE XII: FPPCA COMPUTATION SHEETS (Q1, Q2 & Q3) 141
ANNEXURE XIII: DETAILS OF LETTER OF CREDIT 153
ANNEXURE XIV: BUDGETARY SUPPORT – GOVERNMENT OF GOA 161

TARIFF FILING FORMATS.....



CHAPTER 1. INTRODUCTION

1.1 Historical Perspective

1.1.1 Goa, a tiny emerald land on the west coast of India, the 25th State in the Union of States of India, was liberated from Portuguese rule in 1961. It was part of Union territory of Goa, Daman & Diu till 30th May 1987 when it was carved out to form a separate State. Goa covers an area of 3702 square kilometres and comprises two Revenue district viz North Goa and South Goa. Boundaries of Goa State are defined in the North Terekhol River which separates it from Maharashtra, in the East and South by Karnataka State and West by Arabian Sea.

1.1.2 Goa, for the purpose of revenue administration is divided into district viz. North and South Goa with headquarters at Panaji and Margao respectively. The entire State comprises 11 talukas. For the purpose of implementation of development programmes the State is divided into 12 community development blocks. As per 2011 census, the population of the State is 14,58,000. Administratively the State is organised into two districts North Goa comprising six talukas with a total area of 1736 sq. kms. and South Goa comprising five talukas with an area of 1966 sq. kilometres. In all there are 383 villages of which 233 are in North Goa district and 150 in South Goa district. As per the 2001 census, there are 44 towns of which 14 are Municipalities and remaining are census towns.

1.1.3 A very striking feature of Goa is the harmonious relationship among various religious communities, who have lived together peacefully for generations. Though a late entrant to the planning process, Goa has emerged as one of the most developed States in India and even achieved the ranking of one of the best states in India with regards to investment environment, infrastructure and tourism.

1.2 Background of Electricity Department

1.2.1 The Electricity Department was formed in January 1963 under the Government of Goa, Daman & Diu. It is the only licensee operating in the State of Goa for transmission and distribution of Electrical Energy. The Electricity Department of Goa does not have its own generation. The majority of the power requirement for the State of Goa is met through its share from Central Sector Power Stations of the National Thermal Power Corporation as allocated by the Central Government. The total firm allocation of power from central sector and RGPPL is approx **477 MW** and from unallocated capacity it is **29.69 MW** during peak period and **43.54 MW** during off peak period as on 1st August 2012. In addition, the department also purchases power from Co-generation, IPP and Trader. The firm allocation and unallocated share of power from Central Sector Stations for peak and off-peak hours is provided in the table below:



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

Generating Station	Peak Hours (1800 to 2200 hours)		Off-Peak Hours (0000 to 1800 & 2200 to 2400 hours)	
	Share from Firm Allocation (MW)	Share from Unallocated Allocation (MW)	Share from Firm Allocation (MW)	Share from Unallocated Allocation (MW)
KSTPS	210.00	0.75	210.00	2.97
VSTPS-I	35.00	0.56	35.00	2.22
VSTPS-II	12.00	0.45	12.00	1.79
VSTPS-III	10.00	0.46	10.00	1.81
KGPP	-	12.37	-	12.37
GGPP	-	12.63	-	12.63
SIPAT - II	10.00	0.46	10.00	1.81
KAPP	15.00	0.14	15.00	0.54
TAPP-3 & 4	11.00	0.50	11.00	1.98
KSTPS-7	4.50	0.28	4.50	1.09
SIPAT Stage-I	20.00	1.09	20.00	4.33
Total - WR	327.50	29.69	327.50	43.54
RSTPS - SR	100.00	-	100.00	-
RGPPL	19.67	-	19.67	-
Total (WR + SR)	476.86	29.69	476.86	43.54

1.2.2 The allocation statement is provided at **Annexure I: Power Allocation Statements.**

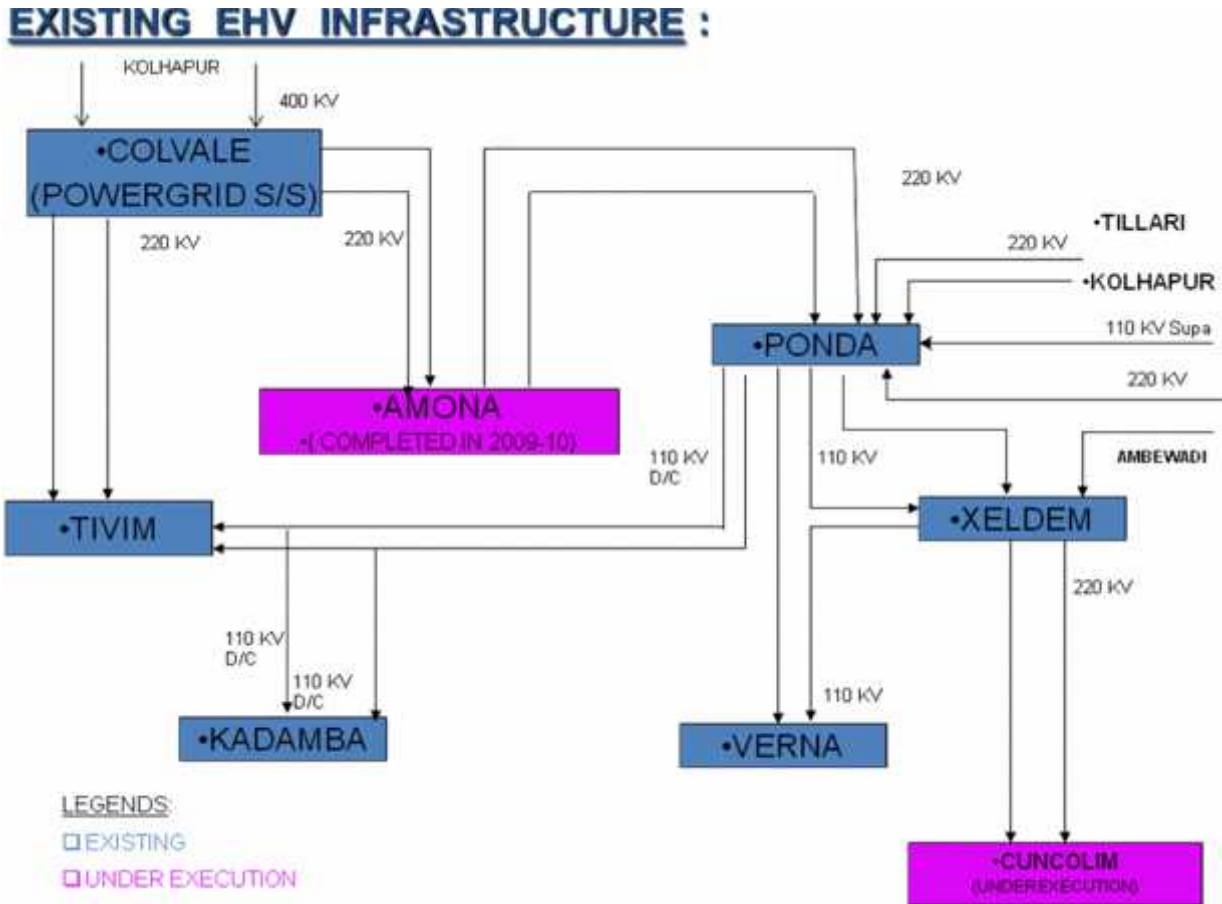
Further as can be seen the more than 75% demand of ED-Goa is met from two major sources viz Korba (KSTPS) and Ramagundam (RSTPS). If there is any forced outage/ event in any of these power stations, it severely affects power position of ED-Goa and it needs to resort to short term power procurement from Traders & UI Pool to the extent of permissible limit and grid frequency norms.

1.2.3 There are no direct link lines between the generating station of central sector and Goa and hence this power is wheeled through the Grids of the neighbouring State of Maharashtra and Karnataka. Electricity Department pays wheeling charges to MSETCL & KPTCL for using their line network for wheeling of power from central sector stations to Goa. The power from the Western region is wheeled from the MSETCL's 400 kV Sub-Station at Kolhapur to the 400 kV Sub-Station at Colvale in Goa. The power from these lines is transmitted at 220 kV level to Ponda and Tivim substations of the Department. Similarly the Southern region power is transmitted from Nagjhari to Ponda. The Department has already taken up the work of linking 33 kV S/S through 33Kv underground cabling from various main EHV substation to distribution network. The coastal belt of Candolim is covered by underground system and parts of Panaji & Margao town. The Department has adopted overhead line system for transmission



and distribution except for these areas which are covered by underground system. The remaining parts of Panaji and Margao town are now being provided with underground network. The Existing EHV Infrastructure is represented in the diagrammatic format as below:

Figure 1: Existing EHV Infrastructure



1.2.4 All the towns and villages of Goa are electrified and any intending consumer can avail power supply by submitting requisition in the prescribed form to the appropriate office of the Department subject to fulfilling the required conditions and payment of charges as per conditions of supply of Electrical Energy and miscellaneous charges. The power supply to the new consumers is released on single phase, 230 Volts for connected load up to 3 kW and on three phase, 400 volts for connected loads above 3 kW but less than 70 kVA/HP connected for a single consumer. The power supply for connected loads / contract demands above 70 kVA but less than 100 kVA is released at a voltage of 11 kV and above 1000 kVA the same is released at 33 kV voltage. The power supply to the consumers shall be released as per the Conditions of Supply framed by ED-Goa which is based on the JERC Electricity Supply Code Regulations 2010.



1.2.5 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.

1.2.6 The present unrestricted demand for the State of Goa is about 470 MW which is being met by power from various Central Sector Power Stations and generating stations within state. The Electricity Department of Goa caters to around 6 Lacs consumers with an annual energy consumption of approx 2900 MUs. The Consumers of the Electricity Department of Goa are classified as under:

- Domestic (29% of consumption)
- Commercial (9% of consumption)
- Industrial (56% of consumption)
- Agriculture (1% of consumption)
- Public Water Works (4% of consumption)
- Public Lighting (1% of consumption)

1.2.7 As seen from the above classification, the energy consumption of industrial consumers is the highest (56%) amongst all these categories.

1.3 Measures to Increase Power Availability

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

- Allocation of 200 MW has been decided by Secretary (Power), Ministry of Power, Government of India, from the Ultra Mega Project of Chhattisgarh Surguja Power Ltd. (Erstwhile Akaltara) in Chhattisgarh and for which as a commitment advance a sum of ₹ 2.00 Crores has been paid.
- The Government has obtained an allocation of the Gare Pelma, Sector III Coal Block at Chhattisgarh from the Government of India. This Coal Block has a generating capacity of 1800 MW. An Agreement has been entered into with a developer who would provide minimum power of 15% i.e. around 270 MW. The State also has the first right of refusal for another 10% power i.e. around 180 MW. The power plant has been scheduled to come up in near future as informed by the Goa Industrial Development Corporation which is the Nodal agency. Government is in the process of appointing a Consultant in regard to matters of procurement of this power through PPA and sale of surplus power.
- A MoU has also been signed with GAIL for laying a gas pipeline from Gokak to Goa for the transportation of gas to Goa. This pipeline is scheduled to be



completed by the December 2012. The Government of Goa is exploring the possibility of setting up of a gas power plant in the state for which Expression of Interest has been received from some Agencies by the Government.

- For meeting the peak hour power requirement, power is obtained to some extent from the U.I. (unscheduled interchanges) pool depending upon permissible grid frequency and also from traders/ open market/ IPP.

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

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

Sr. No.	Power Projects	Capacity
1	Subansari (lower)	8
2	Kameng	2
3	Kakrapar Atomic Power Project (Unit 3 & 4)	15.68
4	Mauda I	11.20
5	Vindhyachal IV	11.20
6	Mauda Stage – II	14.50

1.3.3 In addition to the power allocation from **Table 1-2**, the State of Goa has executed the PPAs from following central sector power projects:

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

Sr. No.	Power Projects	Installed Capacity	Likely COD
1	Vindhyachal V	500 MW	End of XII th Plan
2	Lara STPP – I & II	4000 MW	End of XII th Plan
3	Barh – II	1320 MW	April-Oct 2013
4	Solapur TPP	1320 MW	End of XII th Plan
5	Khargone STPP	1320 MW	End of XII th Plan
6	Gadarwara STPP	2640 MW	End of XII th Plan
7	Dhuvaran STPP	1980 MW	End of XII th Plan
8	Ratnagiri (Dabhol) – Stage II	2100 MW	End of 2015

1.4 Filing of ARR and Tariff Petition for the year FY 2012-13

1.4.1 ED - Goa had submitted the ARR and Tariff Petition for the FY 2012-13 on 31st December 2011. While submitting the ARR and Tariff Petition for FY 2012-13; ED-Goa had considered 6 months actual data/ information for Power Purchase and sales for the purpose of projection for FY 2012-13. The ARR submitted for FY 2012-13 were based on the projection over the previous year, i.e. FY 2011-12.



1.5 Filing of ARR and Tariff Petition for the year FY 2013-14

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

1.5.2 ED-Goa has adopted the principles of Terms and Conditions for Determination of Tariff Regulations 2009 (Tariff Regulations 2009) notified by the Joint Electricity Regulatory Commission. Accordingly, ED-Goa is filing the present petition of Annual Revenue Requirement (ARR) for the FY 2013-14 as per Tariff Regulations 2009 for the approval of Hon'ble Commission. The tariff formats as outlined in the Tariff Regulations 2009 and as applicable to ED-Goa are provided at the end of this petition.

1.5.3 As per the Terms & Conditions for Determination of Tariff Regulations 2009, ED – Goa was required to file the ARR and the Tariff Petition for the Financial Year, 2013-14 by the 30th November, 2012. However, ED – Goa was not in a position to file the same within the stipulated time; the reason being there were certain critical issues regarding the IPP, M/s. Reliance Infrastructure Ltd which were likely to have a huge financial impact. Therefore, this matter was referred to the Government of Goa and it was in process considering the legal and financial aspects. This was also necessary for finalizing the assessment of financial resource for FY 2013-14. Moreover, the Hon'ble Commission vide its order for compliance of Renewable Purchase Obligation (RPO) dated 18th Dec 2012 directed ED – Goa to submit a detailed report on RPO by 10th Jan 2013.

1.5.4 Further, the Hon'ble Commission vide its letter dated 3rd October 2012 had sought/ requested all licensees to file proper petition alongwith relevant information for the purpose of ARR & Tariff Petition. Therefore, ED – Goa was in the process of compiling all the requisite information sought by Hon'ble Commission which has turned out to be time consuming.

1.6 Compliance to 3rd Oct 2012 JERC letter

1.6.1 ED-Goa has attempted to provide maximum information in the present petition for smooth processing of the same and to avoid data gaps. The compliance to the same is tabulated in brief as under:

Table 1-4: Compliance to 3rd Oct 2012 JERC Letter

Sr.No	Information Sought	Compliance
a	Tariff Proposal covering full revenue gap	Complied. Govt of Goa is providing budgetary support to meet revenue gap for FY 2012-13 and FY 2013-14
b	Tariff Formats 1 to 28	Complied.



Sr.No	Information Sought	Compliance
c	Actual 6 months information for current year	Complied.
1	Power Procurement Plan	ED-Goa relies on Central sector allocation and all are long term PPAs. ED-Goa has also prepared a long term plan for meeting RPO till FY 2015-16 and discussed in this petition.
2	Details of RE Power purchased	ED-Goa has floated tender for non-Solar power and has obtained Government approval for tendering for Solar Power to meet RPO. So far no RE power/ REC purchased.
3	Fixation of Tariff of IPP	ED-Goa has submitted PPA executed between ED-Goa and Reliance IPP to JERC several times. The said PPA was executed before enactment of EA 2003. ED-Goa has provided relevant details required during ARR process for FY 2011-12. Government is yet to take a final decision on the power procurement from the Reliance.
4	Detailed summary sheet of energy purchased / sold through exchange/ UI etc	ED-Goa has provided actual information for April-Sep 2012 for all sources of power purchase/ sold on a monthly basis. Further information related to UI for WR and SR is also provided on weekly basis.
5	Methodology for calculation of T&D Loss	ED-Goa has appointed consultant for conducting Energy Audit and provided study on segregation of Technical and Commercial losses. Response to this directive is further elaborated in Chapter 8 of this petition. However ED-Goa has computed PGCIL losses separately for WR & SR.
6	Trajectory for T&D Loss	ED-Goa submits that it had provided the trajectory for T&D loss in the previous petition. However ED-Goa submits that it would be in a better position to provide trajectory once the major capital expenditure schemes are completed and APDRP and R-APDRP scheme results are available.
7	Compliance to SOP	ED-Goa has been complying with this directive. Please refer Chapter 8 of this petition.
8	Compliance to Distribution Code	ED-Goa submits that it is / will be adhering to the provisions / regulations of Distribution Code issued by JERC.
9	Slab-wise and category wise number of consumers, connected load etc	Complied with.



Sr.No	Information Sought	Compliance
10	Slab-wise and category wise monthly details of sales	ED-Goa is in process of compiling this data from all the divisions and billing agencies. At present summary information is provided in this petition for actual 6 months.
11	Revenue from sale of Power (billed)	ED-Goa has provided required information in Format 28.
12	Revenue from FPPCA (billed and collected)	Further information pertaining FPPCA charges levied and collected for 1 st quarter April-June 2012 is provided in Annexure XI: FPPCA Charges for 1st Quarter
13	FPPCA Computation Sheet and Final FPPCA Charge	The FPPCA computation sheet and final FPPCA Charge for Q1, Q2 and Q3 are provided at Annexure XII: FPPCA Computation Sheets (Q1, Q2 & Q3)
14	Details of Meter Rent, Past Arrears, PF Charges etc	These details are not readily available and collection of such data would involve going through the records of around 6 lakhs consumers manually.
15	Details of Non-Tariff Income	Complied.
16	Details of Power Purchase covering month wise and source wise details etc	Complied. ED-Goa has provided NTPC bills for actual period for 9 months. The REA & RTA statement for April-Dec 2012 are provided in soft copy in the CD. Monthwise and sourcewise power purchase and transmission charges details are provided in Annexure IV: Month wise Power Purchase Details – FY12-13 (H1) and Annexure V: Month wise Transmission Charges Details – FY12-13 (H1) respectively. ED-Goa would provide required bills for scrutiny and verification of Commission on request for specific month / source etc.
17	Details of Peak Demand	This is a dynamic situation and changes day-to-day. However the peak demand details are recorded and available in various CEA/ WRPC Reports.
18	Audited Accounts for previous year	ED-Goa is in process of complying with this directive and shall submit to Commission once the same are made available by Directorate of Accounts Department/ CAG.
19	Details of Interest on Security Deposit	ED-Goa is in process of complying with this directive. Please refer Chapter 8 for the same.
20	Detailed bifurcation of gross fixed assets	ED-Goa is in process of complying with this directive. Please refer Chapter 8 for the same.
21	Details of Actual bad-debts or write offs	Under verification and compilation
22	Details of loans, repayment	ED-Goa has provided to Commission in previous petition



Sr.No	Information Sought	Compliance
	schedule and interest	loan agreements and repayment schedule etc. However the same are also provided/ covered in Format 10 and Annexure to Format 10 of the Tariff Filing Format for each source of the loan taken by ED-Goa.
23	Details of Escrow accounts, payment securities for power purchase including Letter of Credit	There are no outstanding payments of Central Sector PSUs. Letter of Credits are kept in place as rules in force. The details are provided at Annexure XIII: Details of Letter of Credit



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 future performance. In this petition, ED – Goa is filing the performance review for FY 2012-13 along with ARR of FY 2013-14.

2.1 True - Up for FY 2011-12

2.1.1 ED – Goa had submitted its ARR and tariff petition for FY 2011-12 on 14th July 2011. However, post the TVS, the Hon'ble Commission directed ED - Goa to file a revised petition considering change in tariffs for central sector stations and also change in transmission charges mechanism. Complying with the directive, ED – Goa had filed Revised Petition on 21st Oct 2011. Further ED-Goa during the ARR process of FY 2012-13 had submitted actual details of FY 2011-12 vide its submission dated 5th June 2012.

2.1.2 It is submitted that at present, the accounts are still in the process of being audited. ED – Goa has got the accounts for FY 2006-07 audited and are carrying out the exercise for the remaining years. The figures of FY 2011-12 submitted at the time of ARR of FY 2012-13 were on actual basis and are still unchanged. Hence, ED – Goa in the current petition is not submitting the True Up for FY 2011-12 and shall approach Hon'ble Commission when audited accounts are ready.

2.2 Annual Performance Review for FY 2012-13

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

2.2.2 Accordingly, ED – Goa is filing this Annual Performance Review petition for the year FY 2012-13 based on the actual performance during the 1st half of the year and the revised estimates for the second half of the year.

2.3 Annual Revenue Requirement and Tariff Petition for FY 2013-14

2.3.1 ED-Goa is filing the petition for the determination of Annual Revenue Requirement Petition for the year FY 2013-14 based on the past performance and expected changes in each element of cost and revenue for the ensuing year. ED-Goa has



studied the previous trends and taken cognisance of other internal and external developments to estimate the likely performance for FY 2013-14.

2.4 Approach for Filing ARR and Tariff Petition for FY 2013-14

- 2.4.1 The present filing for the Annual Revenue Requirement for the FY 2013-14 is based on the principles enumerated by the Joint Electricity Regulatory Commission's (JERC) in the Terms and Conditions for determining of Tariff, Regulations 2009 notified in February 2010. The subsequent sections provide projection for various expenses, the proposed investment plan for the year and the expected revenue projections with existing tariff for FY 2013-14 based on the tariff notifications in force in the area of supply of ED-Goa.
- 2.4.2 Projections of various cost components required for determination of Aggregate Revenue Requirement for FY 2013-14 along with the rationale for estimation of such cost is covered in this section. Further, the philosophy adopted by ED-Goa for projecting sales, number of consumers and power purchase cost for FY 2013-14 has also been elucidated in this section.

**CHAPTER 3. ACTUALS FOR FY 2011-12****3.1 Actual performance for FY 2011-12**

3.1.1 ED – Goa would like to submit that a true up exercise involves juxtaposing the figures from Audited Accounts with the ones approved by the Hon'ble Commission. However, the accounts are in process of being audited from FY 2007-08 onwards. ED – Goa has carried out the audit of accounts for the year FY 2006-07. Thus, due to the absence of audited accounts, ED – Goa is not in a position to submit the True – Up for the year FY 2011-12. Further, CAG audits are still not carried out. However, ED – Goa, for ease of reference hereby submits actual figures as per the revised submissions of the 'Tariff Filling Formats for FY 2011-12' vide affidavit dated 5th June 2012.

Table 3-1: Aggregate Revenue Requirement for FY 2011-12

Particulars	Rs. Crores		
	Submitted earlier in FY 13 petition	Approved	Actuals
Cost of power purchase	1,064.61	1,060.47	1,064.61
Employee costs	125.89	125.89	125.89
R&M expenses	17.03	17.03	17.03
Administration and general expenses	19.31	19.31	19.31
Depreciation	2.82	3.33	2.82
Interest & Finance charges	10.95	6.42	10.95
Interest on Working Capital	-	3.83	-
Interest on Security Deposit	3.52	NIL	3.52
Return on NFA /Equity	-	-	-
Provision for Bad Debt	-	NIL	-
Other Expenses	0.21	NIL	0.21
Total Revenue Requirement	1,244.35	1,236.27	1,244.35
Less: Non Tariff Income	21.06	21.06	21.06
Less: Revenue from Sale of Power - UI Pool	52.00	52.00	52.00
Less: Revenue from Sale of Power-Exchanges	57.70	57.70	57.70
Less: Revenue from Sale / Banking of Power	8.71	8.71	8.71
Net Revenue Requirement	1,104.88	1,096.80	1,104.88

3.1.2 ED-Goa shall approach Hon'ble Commission for truing up of FY 2011-12 after the audited accounts are available.



CHAPTER 4. ANNUAL PERFORMANCE REVIEW FOR FY 2012-13

4.1 Background to FY 2012-13 Petition

4.1.1 ED – Goa in this chapter submits the performance of each parameter of ARR based on the performance of ED – Goa for the corresponding year as against the values approved by the Hon'ble Commission. This chapter summarizes each of the components of ARR for FY 2012-13 and requests the Hon'ble Commission to review the performance for FY 2012-13. The Annual Performance Review for FY 2012-13 is based on actual data/ information for first 6 months (First Half – H1) and as per the performance of ED – Goa and estimation/projections for second 6 months (Second Half – H2). The projections for the second 6 months are arrived at by escalation over performance over the first half data/ information.

4.2 Review for FY 2012-13

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

4.2.3 ED-Goa submits that the ARR Petition for FY 2012-13 filed by ED - Goa was based on 5 months actual figures and 7 months estimated figures of FY 2011-12 and considering projections submitted to Planning Commission.



4.2.4 The Hon'ble Commission has issued the Tariff Order for FY 2012-13 on 27th June 2012. For the purpose of ease of reference; the summary of approved ARR vis-a-vis submitted by ED – Goa for FY 2012 – 13 submitted in the previous filing is reproduced hereunder:

Table 4-1: ARR approved by JERC – FY 2012-2013

Sr. No	Particulars	ED – Goa submission (Rs Crs)	Approved (Rs Crs)
1	Cost of power purchase	959.41	811.64
2	Employee costs	155.05	136.21
3	R&M expenses	22.84	18.52
4	Administration and general expenses	26.91	21.00
5	Depreciation	4.71	11.37
6	Interest and Finance Charges	8.97	22.38
7	Interest on Working Capital	Not Claimed	1.78
8	Interest on Security Deposit	3.98	5.94
9	Return on NFA	Not claimed	3.68
10	Provision for Bad Debts	Not claimed	NIL
11	Other Expenses	-	-
12	Total Revenue Requirement	1,181.88	1,032.51
13	Less: Non Tariff Income	22.53	22.53
14	Less: Revenue from Sale of Power - UI Pool	13.70	-
15	Less: Revenue from Sale of Power-Exchanges	92.16	-
16	Less: Revenue from Sale / Banking of Power	-	-
17	Aggregate Revenue Requirement	1,053.49	1,009.98

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 consumption attributable to the domestic category. ED – Goa has been experiencing a constant growth rate 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 the number of consumers approved by the Hon'ble Commission in its Tariff Order. The table below shows category wise number of consumers for the 1st half (provisional actuals) and at the end of the year FY 2012-13 (Revised Estimates).



Table 4-2: Number of Consumers – FY 2012-13

Sr. No.	Category of Consumer	H1 FY 13 (Prov. Actuals)	FY 2012-13 (Rev. Est)
A	Low Tension Supply	579,332	580,056
1(a)	Tariff LTD/Domestic and Non - Commercial	440,638	441,189
	<i>First 60 Units</i>	94,333	94,451
	<i>61 - 250 Units</i>	265,399	265,730
	<i>251 Units - 500 Units</i>	63,786	63,865
	<i>Above 500 Units</i>	17,121	17,142
1(b)	Tariff LTD/Low Income Group	14,214	14,232
1(c)	Tariff LTD/Domestic Mixed	50	50
	<i>First 400 Units</i>	41	41
	<i>Above 400 Units</i>	9	9
2	Tariff LTC/Commercial	94,353	94,471
	<i>First 100 Units</i>	45,875	45,933
	<i>100 Units - 1000 Units</i>	42,223	42,275
	<i>Above 1000 Units</i>	6,255	6,263
3 (a)	Tariff LTP/Motive Power	9,510	9,521
	<i>Connected Load Upto 50 HP</i>	499	500
	<i>Connected Load Above 50 HP</i>	9,011	9,022
3(b)	Tariff-LTP/Ice Manufacturing	-	-
	<i>Connected Load Upto 100 HP</i>	-	-
3(c)	Tariff-LTP/Mixed (Hotel Industries)	-	-
4	Tariff-LTAG/Agriculture	11,011	11,025
5	Tariff-LTPL/Public Lighting	9,009	9,020
6	Tariff-LT PWW/Public Water Works	547	547
B	High Tension Supply	751	752
7	Tariff HT-Mixed	201	201
8(a)	Tariff HTI/Industrial	366	367
8(b)	Tariff HTI/Hotel Industries	47	47
8(c)	Tariff HTI/Ice Manufacturing	-	-
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	26	26
	<i>First 300 Units/kVA</i>	-	-
	<i>Next 200 Units/kVA</i>	-	-
	<i>Above 500 Units/kVA</i>	-	-
10	Tariff-HTAG/Agriculture	42	42
11	EHTI/Industrial	4	4
12	H.T. PW/Public Water Supply and Sewage	31	31
13	H.T. MES/Defence Establishments	12	12
14	H.T. Industrial (Steel Rolling)	13	13
	<i>First 200 Units/kVA</i>	-	-
	<i>Next 100 Units/kVA</i>	-	-
	<i>Above 300 Units/kVA</i>	-	-
15	Tariff HT-Industries (IT High Tech).	8	8
C	Temporary Supply	408	409
16	Tariff-LT/Temporary	408	409
17	Tariff-HT/Temporary	-	-
18	Total Number of Consumers (A+B+C)	580,491	581,217



4.4 Connected Load

4.4.1 Based on the number of consumers for the year FY 2012-13; the category wise connected load for the 1st half and for FY 2013-13 is provided in the table below:

Table 4-3: Connected Load – FY 2012-13

Sr. No.	Category of Consumer	H1 FY 13 (Prov. Actuals) kW/kVA	FY 2012-13 (Rev. Est) kW/kVA
A	Low Tension Supply		
1(a)	Tariff LTD/Domestic and Non - Commercial	682,479	683,332
	<i>First 60 Units</i>	146,107	146,289
	<i>61 - 250 Units</i>	411,060	411,574
	<i>251 Units - 500 Units</i>	98,794	98,917
	<i>Above 500 Units</i>	26,518	26,551
1(b)	Tariff LTD/Low Income Group	4,555	4,560
1(c)	Tariff LTD/Domestic Mixed	84	84
	<i>First 400 Units</i>	69	69
	<i>Above 400 Units</i>	15	15
2	Tariff LTC/Commercial	257,067	257,388
	<i>First 100 Units</i>	124,988	125,144
	<i>100 Units - 1000 Units</i>	115,036	115,180
	<i>Above 1000 Units</i>	17,043	17,064
3 (a)	Tariff LTP/Motive Power	332,802	333,218
	<i>Connected Load Upto 50 HP</i>	17,462	17,484
	<i>Connected Load Above 50 HP</i>	315,341	315,735
3(b)	Tariff-LTP/Ice Manufacturing	-	-
	<i>Connected Load Upto 100 HP</i>	-	-
3(c)	Tariff-LTP/Mixed (Hotel Industries)	-	-
4	Tariff-LTAG/Agriculture	66,316	66,399
5	Tariff-LTPL/Public Lighting	12,683	12,699
6	Tariff-LT PWW/Public Water Works	12,362	12,378
B	High Tension Supply		
7	Tariff HT-Mixed	72,881	72,972
8(a)	Tariff HTI/Industrial	206,393	206,651
8(b)	Tariff HTI/Hotel Industries	26,474	26,507
8(c)	Tariff HTI/Ice Manufacturing	-	-
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	99,299	99,423
	<i>First 300 Units/kVA</i>	53,617	53,684
	<i>Next 200 Units/kVA</i>	37,582	37,629
	<i>Above 500 Units/kVA</i>	8,100	8,110
10	Tariff-HTAG/Agriculture	8,458	8,469
11	EHTI/Industrial	60,060	60,135
12	H.T. PW/Public Water Supply and Sewage	27,107	27,141
13	H.T. MES/Defence Establishments	6,682	6,690
14	H.T. Industrial (Steel Rolling)	20,020	20,045
	<i>First 200 Units/kVA</i>	14,250	14,267
	<i>Next 100 Units/kVA</i>	4,656	4,662
	<i>Above 300 Units/kVA</i>	1,115	1,116
15	Tariff HT-Industries (IT High Tech).	3,191	3,195
C	Temporary Supply	2,623	2,626
16	Tariff-LT/Temporary	2,623	2,626
17	Tariff-HT/Temporary	-	-



4.5 Energy Sales

4.5.1 ED – Goa has projected the sales by considering the actual consumption for the 1st half of FY 2012-13, i.e. April 2012 to Sep 2012. 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. ED – Goa has also considered certain key factor considered while projecting the sales for FY 2012-13:

- The Government of Goa has issued notification to all the mines operating to suspend their operations due to certain illegal matters. As a result of this, the sales have drastically reduced in recent months and are expected to be on lower side in the 2nd half of the FY 2012-13. Hence, ED – Goa has used a conservative approach while projecting sales of High Tension Supply during the second half. The Notification issued by the Government of Goa is annexed to this petition at **Annexure II: Suspension Order on Mining Activities**
- Secondly, ED – Goa has shown considered higher sales for Commercial Category during the 2nd half of the year FY 2012-13. 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.

4.5.2 The overall sales projected by ED – Goa for the year FY 2012-13 is in the range of Sales figures approved by the Hon'ble Commission.



Table 4-4: Sales for FY 2012-13

Sr. No.	Category of Consumer	FY 12-13 (Approved) - MUs	H1 FY 13 (Prov. Actuals) -	H2 FY 13 (Projections) - MUs	FY 2012-13 (Rev. Est)
A	Low Tension Supply	1,251	590	608	1,198
1(a)	Tariff LTD/Domestic and Non - Commercial	744	416	394	810
1(b)	Tariff LTD/Low Income Group	2	5	4	9
1(c)	Tariff LTD/Domestic Mixed	2	2	2	4
2	Tariff LTC/Commercial	351	108	152	260
3 (a)	Tariff LTP/Motive Power	96	37	37	74
3(b)	Tariff-LTP/Ice Manufacturing	7	-	-	-
3(c)	Tariff-LTP/Mixed (Hotel Industries)	6	3	3	5
4	Tariff-LTAG/Agriculture	10	10	8	18
5	Tariff-LTPL/Public Lighting	31	8	8	16
6	Tariff-LT PWW/Public Water Works	2	1	1	2
B	High Tension Supply	1,649	825	792	1,616
7	Tariff HT-Mixed	160	106	100	206
8(a)	Tariff HTI/Industrial	596	277	269	546
8(b)	Tariff HTI/Hotel Industries	-	20	30	50
8(c)	Tariff HTI/Ice Manufacturing	-	-	0	0
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	496	280	260	540
10	Tariff-HTAG/Agriculture	4	4	4	8
11	EHTI/Industrial	175	59	51	110
12	H.T. PW/Public Water Supply and Sewage	120	51	59	110
13	H.T. MES/Defence Establishments	44	15	19	34
14	H.T. Industrial (Steel Rolling)	49	29	27	56
15	Tariff HT-Industries (IT High Tech).	5	4	4	7
C	Temporary Supply	16	7	7	15
16	Tariff-LT/Temporary	16	7	7	14
17	Tariff-HT/Temporary	-	0	0	1
18	Total Sales Within State/UT (A+B+C)	2,916	1,422	1,407	2,829

4.5.3 The Hon'ble Commission is requested to kindly approve the sales figures as projected in the table above. The figures of Number of Consumers, Connected Load and Sales for FY 2012-13 are provided in **Format 1 of Tariff Filing Formats**.

4.6 Distribution Loss & Energy Requirement

4.6.1 **Distribution Loss H1:** The Distribution Loss for the 1st half of the year FY 2012-13 (i.e. Apr 12 – Sep 12) based on the actual data available comes to **13.30%**. This loss is arrived at by considering the Total Power Purchase Availability after PGCIL Losses. While calculating the Distribution Loss, ED – Goa has considered the PGCIL



losses for both the regions of source of Power i.e. Western Region (WR) & Southern Region (SR).

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:

Table 4-5: Energy Input for WR & SR: FY 12-13 – H1

PERIPHERAL INPUT OF POWER FOR THE FINANCAIL YEAR 2012-13 (kWh)			
MONTH	WR	SR	TOTAL
April-12	211521680	62552000	274073680
May-12	237232880	47456000	284688880
June-12	198277440	45520000	243797440
July-12	205260080	45208000	250468080
August-12	206598040	48816000	255414040
September-12	201084560	44208000	245292560
Total Apr-Sep12	1259974680	293760000	1553734680

4.6.3 **PGCIL Losses H1:** ED – Goa so far had adopted Average Loss Method which has provided near approximate losses; hence in this petition, ED – Goa proposes an alternate methodology giving a better accuracy in arriving at a realistic Distribution Loss. In this methodology, the Energy Input at Goa Periphery is considered at both the regions – WR & SR. Likewise, the total Power Purchased from both the regions has been considered and accordingly, the inter-state transmission loss is worked out. The majority of ED – Goa’s Energy Requirement is met through allocation of power from Central Generating Station. The Power Purchase details are covered in the subsequent section.

4.6.4 **Energy Balance H1:** The Energy Balance for the 1st half of the year FY 2012-13, based on the provisional actuals is shown in the table below:



Table 4-6: Energy Balance for H1 (Apr 12 – Sept 12)

Sr. No.	Item	April-Sep (Prov. Actual) - WR	April-Sep (Prov. Actual) - SR	April-Sep (Prov. Actual) WR + SR
		FY 2012-13	FY 2012-13	FY 2012-13
1	2	3	3	3
1	Energy Input at Goa Periphery	1,260	294	1,554
2	Total Power Scheduled/ Purchased at Goa Periphery			
	Total Schedule Billed Drawal - CGS	1,270	377	1,647
	Add: Overdrawal	53	7	60
	Add: Power purchase from NVVN	21	-	21
	Less: Underdrawal	14	30	43
	Less: Power diverted to Exchange	39	-	39
	Total	1,291	354	1,646
3	PGCIL Losses - MUs	32	61	92
	PGCIL Losses - %	2.44%	17.13%	5.60%
4	Total Power Purchased within Goa State			
	Add: Co-generation	47		47
	Add: Independent Power Producers (IPP)	63		63
	Total	109	-	109
5	Total Power Purchase availability after PGCIL Losses	1,369	294	1,663
	Less: Retail Sales to Consumers			1,442
	Distribution Losses - MUs			221
6	Distribution Losses - %			13.30%

4.6.5 **PGCIL SR Losses:** It can be seen from the table above, that PGCIL loss for the southern region is on much higher side in the 1st half of the year FY 2012-13. 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, Inter State Losses of SR & WR. Further, there was a Grid Diversion for a period of 6 months due to KEB Ckts Breakdown and PP outages; hence there was an additional loss in the energy available at the Goa Periphery in the first half.
- iii. Thus, the PGCIL loss for the southern region tends to be more than the Western Region in H1.
- iv. ED-Goa had written letter to the SRPC on 22nd January 2013 seeking explanation on the same and the reply was also provided by SRPC on 22nd January 2013 which is provided at **Annexure III: SRPC Letter on Transmission Loss**



4.6.6 **Distribution Loss for overall FY 12-13:** The Distribution Loss for the year FY 2012-13 on overall basis is estimated to be around **12.50%** in line with the approved level of the Hon'ble Commission. ED – Goa has been trying to minimize the Distribution Loss and shall continue with the efforts in reducing the Distribution Loss further. It may be noted that the distribution losses for the State of Goa are comparatively lower than many other state utilities and also competitive. The distribution loss for the year FY 2012-13 is attributable to various activities carried out by ED – Goa viz:

- i) Execution of the works under APDRP which has drastically reduced the outages and the AT&C losses.
- ii) The bifurcation of the feeders, new Sub-Stations which has helped in improving the voltage profile and reliability of power supply.
- iii) Augmentation of the capacities of the Sub-Stations resulting in releasing additional loads to the consumers and consequent increase in revenue.

4.6.7 The figures of AT&C loss and Distribution Loss for FY 2012-13 are provided in **Format 2 of Tariff Filing Formats.**

4.6.8 **PGCIL Losses for overall FY 12-13:** 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. As per discussions with SRPC on the above issue, PGCIL loss for the SR for FY 2012-13 are considered at **9.50%** (Andhra Intra State Transmission Loss + SR Interstate Loss + Karnataka wheeling loss). On the other hand PGCIL losses for the WR are considered as the average of 52 week losses at **3.68%** which is shown in the table below:

Table 4-7: PGCIL Loss for Western Region for FY 13 (52 week losses)

Western Region Last 52 weeks Losses			Western Region Last 52 weeks Losses		
Week	Period from - to	Loss %	Week	Period from - to	Loss %
44	230112-290112	3.48	17	160712-220712	4.02
45	300112-050212	3.52	18	230712-290712	3.96
46	060212-120212	3.72	19	300712-050812	3.86
47	130212-190212	3.80	20	060812-120812	3.92
48	200212-260212	3.72	21	130812-190812	3.94
49	270212-040312	4.00	22	200812-260812	3.36
50	050312-110312	3.78	23	270812-020912	3.24
51	120312-180312	3.50	24	030912-090912	3.46
52	190312-250312	3.40	25	100912-160912	3.34
1	260312-010412	3.74	26	170912-230912	3.40



Western Region Last 52 weeks Losses		
Week	Period from - to	Loss %
2	020412-080412	3.62
3	090412-150412	4.14
4	160412-220412	4.00
5	230412-290412	3.68
6	300412-060512	3.52
7	070512-130512	3.54
8	140512-200512	3.80
9	210512-270512	3.84
10	280512-030612	3.56
11	040612-100612	3.60
12	110612-170612	3.40
13	180612-240612	3.66
14	250612-010712	3.88
15	020712-080712	4.04
16	090712-150712	3.58
17	160712-220712	4.02
18	230712-290712	3.96
19	300712-050812	3.86

Western Region Last 52 weeks Losses		
Week	Period from - to	Loss %
27	240912-300912	3.24
28	011012-071012	3.12
29	081012-141012	3.10
30	151012-211012	3.42
31	221012-281012	3.46
32	291012-041112	3.58
33	051112-111112	3.90
34	121112-181112	3.94
35	191112-251112	3.98
36	261112-021212	3.48
37	031212-091212	3.60
38	101212-161212	3.78
39	171212-231212	3.94
40	241212-301212	4.16
41	311212-060113	4.06
42	070113-130113	3.88
43	140113-200113	3.76
Average Losses		3.68

Source: WRPC website

4.6.9 ED-Goa while computing Energy balance for entire FY 2012-13 has considered actual of UI overdrawal/ under drawal, purchase of traders, sale to exchange etc.

4.6.10 ED-Goa submits that it has tried to schedule less power from central sector during off-peak period to avoid having surplus during the same period. However considering the dynamic power situation, there is some surplus available in the pool which shall be sold to exchanges. It is difficult to project a energy balance with nil surplus/ deficit on a realistic scenario. Hon'ble Commission is well aware that ED-Goa is majorly dependent on CGS power and even if a single source of power goes on outage, EDD-Goa has to put restrictions / buy power from open market/ any other available sources including IPP.

4.6.11 Thus, on the basis of the foregoing paras, the Energy Balance for the year FY 2012-13 is computed by ED-Goa shown in the table below:



Table 4-8: Energy Balance for FY 12- 13

Sr. No.	Item	Apr-Mar (Rev.Est) - WR	Apr-Mar (Rev.Est) - SR	Apr-Mar (Rev.Est) WR + SR
		FY 2012-13	FY 2012-13	FY 2012-13
1	2	3	4	5
1	Retail Sales to Consumers			2,879
	Add: Distribution Losses - %			12.50%
	Distribution Losses - MUs			411
2	Net Energy Requirement at Goa Periphery			3,291
3	Total Power Scheduled at Goa Periphery			
	Scheduled Power from NTPC, RGPPL, NPCIL & RSTPS	2,553	740	3,293
	Add: Actuals of Over/Underdrawal, Traders and Sale to exchange - H1	(1)	-	(1)
	Add: Power from Open Market during peak/ (Surplus Power diversion to exchange during off-peak)	(37)	-	(37)
	Total	2,515	740	3,255
4	Less: PGCIL Losses - %	3.68%	9.50%	5.00%
	PGCIL Losses - MUs	93	70	163
5	Total Power Purchased within Goa State			
	Add: Co-generation	93	-	93
	Add: Independent Power Producers (IPP)	105	-	105
	Total	199	-	199
6	Energy Input at Periphery after PGCIL Losses & State Power Purchase	2,621	670	3,291

4.6.12 The Hon'ble Commission is requested to approve the Energy Balance for the year FY 2012-13 as provided in the above table. The energy requirement and source wise power purchase details alongwith actual cost for H1 are discussed in subsequent section. The figures of energy Balance for FY 2012-13 (H1 and overall for FY 2012-13) are provided in **Format 3 of Tariff Filing Formats**.

4.7 Power Purchase Quantum & Cost for FY 12-13

Power Purchase Cost for H1 FY 2012-13

4.7.1 ED-Goa meets its total energy requirement from its allocation from the Central Generating Stations (CGS), Private Generators like Reliance Infrastructure Ltd; 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 quantum of power allocated from the CGS is covered under **Table 1-1: Present Power Allocation of Central Sector Stations (WR+SR)**. The power purchases from other sources such viz Co – generation, IPP have been considered as per 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 2012-13 including Transmission Charges, UI charges and purchase from traders:

Table 4-9: Power Purchase Quantum & Cost for H1 – FY 13

Sr. No	Particulars	Purchase (Mus)	Cost (Rs.Crs)
1	NTPC	1,519.02	314.98
2	RGPPL	31.54	15.80
3	NPCIL	96.67	25.09
4	Traders	20.82	8.43
5	Overdrawal	60.09	24.30
6	Co - Generation	46.73	11.21
7	IPP	62.59	82.90
8	Transmission Charges	-	49.15
	Grand Total	1,837.45	531.87

4.7.3 The source wise details of Power Purchase Quantum and its cost are covered in **Format 4 of the Tariff Filing Formats**. The revenue from underdrawal and power sale/ diversion to exchange has been shown under revenue head.

4.7.4 Further, the month wise breakup for each of the source/ element of Power Purchase for the period April-September 2012 and NTPC Bills for April-Sep 2012 are annexed to this petition in **Annexure IV: Month wise Power Purchase Details – FY12-13 (H1)**. ED-Goa would like to submit that by the time filing of this petition, the bills of NTPC were received till December 2012 which are also provided in the same annexure. As monthwise summary for each & every source and even NTPC bills are provided till December 2012, the power purchase bills shall be made available on request for scrutiny of the Hon'ble Commission.

4.7.5 ED – Goa on a real time basis has also overdrawn/ underdrawn power from both WR & SR grid. The details of the same are provided in the table below for H1:

Table 4-10: UI (Over Drawal & Under Drawal) charges for FY 13 – H1

Region	Overdrawal		Underdrawal	
	Rs.Crs	(MUs)	Rs.Crs	(MUs)
WR	20.22	53	2.60	14
SR	4.08	7	9.34	30
Total	24.30	60	11.94	43
Avg Rate (Rs/kWh)	4.04		2.75	



4.7.6 The week wise details for the UI charges for both the regions, WR & SR are shown in the following tables:

Table 4-11: UI (Over Drawal & Under Drawal) charges – Western Region for FY 13 H1

Sr. No.	Week	UI payable	Units	UI receivable	Units
		Rs.	in MUs	Rs.	in MUs
1 st	02/04/2012 to 08/04/2012	23890257	6.460		
2 nd	09/04/2012 to 15/04/2012	15053750	7.340		
3 rd	16/04/2012 to 22/04/2012	24070254	7.280		
4 th	23/04/2012to 29/04/2012	14226598	4.80		
5 th	30/04/2012 to 06/05/2012	15564134	3.39		
6 th	07/05/2012 to 13/05/2012	33669	0.3858		
7 th	14/05/2012 to 20/05/2012			40088	0.6579
8 th	21/05/2012 to 27/05/2012	9130225	1.499		
9 th	28/05/2012 to 03/06/2012	16254690	3.75		
10 th	04/06/2012 to 10/06/2012	10592179	1.548		
11 th	11/06/2012 to 17/06/2012	17415631	1.1588		
12 th	18/06/2012 to 24/06/2012	9787629	1.36		
13 th	25/06/2012 to 01/07/2012			13609903	3.3266
14 th	02/07/2012 to 08/07/2012			6241811	3.0377
15 th	09/07/2012 to 15/07/2012	5550385	0.492		
16 th	16/07/2012 to 22/07/2012	200764			0.531646
17 th	23/07/2012 to 29/07/2012	385966			0.657564
18 th	30/07/2012 to 05/08/2012	7089399	1.793		
19 th	06/08/2012 to 12/08/2012	4952946	0.97933		
20 th	13/08/2012 to 19/08/2012			167651	0.762
21 st	20/08/2012 to 26/08/2012	25542			0.559156
22 nd	27/08/2012 to 02/09/2012			5957648	4.218
23 rd	03/09/2012 to 09/09/2012	1317130			0.175
24 th	10/09/2012 to 16/09/2012	1593260	1.028518		
25 th	17/09/2012 to 23/09/2012	808228	0.1312		
26 th	24/09/2012 to 30/09/2012	24267919	9.4268		
Total A		202210555	52.824653	26017101	13.925566

Table 4-12: UI (Over Drawal & Under Drawal) charges – Southern Region for FY 13 H1

Sr. No.	Week	UI payable	Units	UI receivable	Units
		Rs.	in MUs	Rs.	in MUs
1 st	02/04/2012 to 08/04/2012	11692702	2.20		
2 nd	09/04/2012 to 15/04/2012	2605588	0.44		
3 rd	16/04/2012 to 22/04/2012	6275245	1.33		
4 th	23/04/2012to 29/04/2012	1982784	0.57		
5 th	30/04/2012 to 06/05/2012			1336074	0.30
6 th	07/05/2012 to 13/05/2012			407106	0.38
7 th	14/05/2012 to 20/05/2012			4074362	1.98



8 th	21/05/2012 to 27/05/2012			713924	0.34
9 th	28/05/2012 to 03/06/2012	1946108	0.16		
10 th	04/06/2012 to 10/06/2012			5026870	1.44
11 th	11/06/2012 to 17/06/2012	7287713	0.96		
12 th	18/06/2012 to 24/06/2012			710150	0.58
13 th	25/06/2012 to 01/07/2012			1904835	0.79
14 th	02/07/2012 to 08/07/2012			14474180	4.16
15 th	09/07/2012 to 15/07/2012			11388515	4.03
16 th	16/07/2012 to 22/07/2012			9599631	2.61
17 th	23/07/2012 to 29/07/2012	6529353	1.1776083		
18 th	30/07/2012 to 05/08/2012			11609587	3.563
19 th	06/08/2012 to 12/08/2012			5007508	1.7085
20 th	13/08/2012 to 19/08/2012			5080394	1.4621
21 st	20/08/2012 to 26/08/2012	2470681	0.433		
22 nd	27/08/2012 to 02/09/2012			3553389	1.028
23 rd	03/09/2012 to 09/09/2012			2018681	0.71326
24 th	10/09/2012 to 16/09/2012			834700	0.39831
25 th	17/09/2012 to 23/09/2012			10641893	2.5534
26 th	24/09/2012 to 30/09/2012			5022672	1.472
Total A		40790174	7.2649083	93404471	29.526506

4.7.7 **Transmission Charges H1:** The transmission charges for the 1st half of FY 2012-13 comprises of transmission charges to Western Region, Southern Region, KPTCL and other Transmission Licensees. The Transmission charge comes to around Rs. **49.15** Crores, the details of which are shown in the table below:

Table 4-13: Transmission Charges for FY 2012-13 H1

Sr. No	Name of the Supplier/ Agency	Amount (Rs)
1	2	3
1	M/s PGCIL WR, Nagpur	375952334
2	M/s PGCIL SR, Bangalore	83391129
3	M/s KPTCL, Bangalore	9104080
4	M/s POSOCO WR	2846036
5	M/s POSOCO SR	2524170
6	M/s POSOCO WR	3666773
7	M/s MSEDCL	1405329
8	M/s POSOCO WR	7476
9	M/s MSETCL (RGPPL)	12648855
	Total	491546182



4.7.8 The month wise details of transmission charges for major heads are provided at **Annexure V: Month wise Transmission Charges Details – FY12-13 (H1)**

Power Purchase Cost for Overall FY 2012-13

4.7.9 **Power Purchase quantum for FY13 (H1 + H2):** For the year FY 2012-13, ED – Goa has projected the Power Purchase by considering the actual power purchase incurred for the 1st half of the year FY 2012-13 (i.e. Apr 12 – Sep 12) as well as the power purchase for the 3rd quarter which too is on actual basis. However, for the last quarter for the year FY 2012-13, ED – Goa has considered the Power Purchase Quantum as per LGBR report by CEA. Hence, the total Power Purchase for FY 2013-14 is arrived at by considering the above power purchases done during all the 4 quarters. The Power Purchase Details as per the methodology adopted is depicted in the table below:

Table 4-14: Power Purchase Quantum for FY 2012-13

	Power Purchase Sources	Goa Share %	Actual H1 (Q1+Q2)	Actual Q3	LGBR Q4	Rev Est FY13
A	Central Sector Power Stations		1,647	846	800	3,293
I	NTPC					
	<i>KSTPS</i>	10.0355	741	398	368	1,507
	<i>VSTPS - I</i>	2.8220	123	65	67	254
	<i>VSTPS - II</i>	1.2451	46	27	24	96
	<i>VSTPS -III</i>	1.0456	42	23	20	85
	<i>KGPP</i>	1.8851	37	12	17	67
	<i>GGPP</i>	1.9212	41	15	17	73
	<i>SIPAT- I</i>	1.0651	49	32	30	112
	<i>KSTPS-III</i>	0.9550	22	10	6	38
	<i>RSTPS</i>	4.7600	377	182	182	740
	<i>SIPAT- II</i>	1.0457	41	18	14	73
II	RGPPPL	20.0000	32	16	16	63
III	NPCIL					
	<i>KAPS</i>	3.4400	53	26	22	101
	<i>TAPS</i>	1.0646	44	22	18	84
B	Within State Generations		109	36	53	199
I	CO- GENERATION					
	<i>Goa Energy Private Limited</i>		40	20	20	80
	<i>Goa Sponge & Power Limited</i>		7	3	3	13
	<i>Sesa Goa Limited</i>		-	-	-	-
II	IPP:					
	<i>Reliance Infra</i>		63	13	30	105
	Total		1,757	882	853	3,492

Note: The table above excludes Purchase from Traders and UI which is taken as actual of H1.



4.7.10 The generation for co-generation plants and IPP has been projected based on actual performance for first 6 months and the generation for central sector stations as per LGBR for Q4. The copy of the LGBR Q4 FY 2012-13 annexure providing monthwise projections is annexed at **Annexure XIII: Details of Letter of Credit**

4.7.11 **Power Purchase Fixed Cost for overall FY 2012-13:** The fixed cost for the above Power Purchase is done on the basis of allocating the Annual Fixed charges to the percentage share of the State of Goa. It is submitted that the Annual Fixed Charges for the central sector stations have got revised in FY 2012-13 as against earlier provisional orders issued by CERC in 2011. The copies of orders referred herein below are provided in soft form in the CD.

4.7.12 The annual fixed charges for FY 2012-13 excluding fixed charges for Reliance –IPP have been considered based on the latest available CERC orders which are depicted in the table below:

Table 4-15: Fixed Cost of Power Purchase for FY 2012-13

Power Purchase Sources	CERC Prov. Orders Details	Annual Fixed Charges for Station (FY12-13) as per Prov CERC Order - Rs.Crs	Latest CERC Orders Details	Annual Fixed Charges for Station (FY12-13) - Rs.Crs	Share of Goa - %	Share of Goa - Fixed Charges (FY12-13) - Rs.Crs
NTPC						
<i>KSTPS</i>	Ptn 264/2009 dt 6.7.2011	846.43	Ptn 264/2009 dt 12.10.2012	783.90	10.1239%	79.36
<i>VSTPS - I</i>	Ptn 227/2009 dt 6.7.2011	518.08	Ptn 227/2009 dt 12.9.2012	542.57	2.9320%	15.91
<i>VSTPS - II</i>	Ptn 258/2009 dt 26.12.2011	523.39	Ptn 258/2009 dt 26.12.2011	523.39	1.3568%	7.10
<i>VSTPS - III</i>	Ptn 260/2009 dt 6.7.2011	768.59	Ptn 260/2009 dt 28.5.2012	790.59	1.1587%	9.16
<i>KGPP</i>	Ptn 285/2009 dt 6.7.2011	480.90	-	480.90	1.8851%	9.07
<i>GGPP</i>	Ptn 226/2009 dt 6.7.2011	547.19	-	547.19	1.9212%	10.51
<i>SIPAT- I</i>	Ptn 28/2011 dt 3.11.2011		Ptn 28/2011 dt 6.9.2012	1,651.47	1.2015%	19.84
<i>KSTPS-III</i>	Ptn 247/2010 dt 9.11.2011	437.74	Ptn 247/2010 dt 3.5.2012	537.34	1.0915%	5.87
<i>RSTPS</i>	Ptn 278/2009 dt 6.7.2011	808.99	Ptn 278/2009 dt 31.8.2012	847.80	4.7600%	40.36
<i>SIPAT- II</i>	Ptn 316/2009 dt 6.7.2011	841.65	Ptn 316/2009 dt 20.1.2012	871.62	1.1585%	10.10
Total						207.27



4.7.13 Power Purchase Variable Cost for overall FY 2012-13: The variable cost for FY 2012-13 has been computed considering actual average variable cost of each source for first six months period of April-September 2012. It is submitted that no escalation of cost has been considered.

4.7.14 Power Purchase Other & Supplementary Charges for FY 2012-13: The other costs which includes ED, Cess, Incentive, MOPA etc and supplementary charges are considered on actual basis paid in first six months period of April-September 2012 only. It is submitted that there is no projection for H2 of these costs.

4.7.15 Power Purchase cost of Traders and Overdrawal for FY 2012-13: The power purchase cost for power purchased from traders (NVVN) and power overdrawal from grid are considered on actual basis paid in first six months period of April-September 2012 only. It is submitted that there is no projection for H2 for these sources.

4.7.16 Power Purchase from Renewable Energy Sources: Further, the Hon'ble Commission vide its order for compliance of Renewable Purchase Obligation (RPO) dated 18th Dec 2012 directed ED – Goa to submit a detailed compliance report. ED-Goa would like to submit that it has already floated tender for procurement of Non-Solar Power in subsequent 3 financial years which would include RPO for past years i.e. FY2011-11, FY 2011-12 and FY 2012-13 also. It is submitted that Government of Goa has accorded the approval for initiation of tender process for solar power.

4.7.17 However ED-Goa would like to mention that it is pursuing the matter of RPO in case no. 61/2012 wherein it has pleaded for consideration of meeting RPO for the power purchased from co-generation sources viz Goa Energy Pvt Ltd and Goa Sponge Pvt Ltd which are Waste Heat Recovery based power plants and are qualified under Urban & Industrial Waste source of Renewable Energy Source of Ministry of New & Renewable Energy (MNRE). ED-Goa would like to submit that presentation/ projection of non-solar power in this petition is subject to the order in the matter of case no. 61/2012.

4.7.18 For Solar RPO, ED-Goa would like to submit that neither solar power nor solar RECs are available in the market; making it very difficult to meet the RPO. ED-Goa would make attempt to comply with Solar RPO by power procurement through tender process.



4.7.19 ED – Goa is in the process of floating the tender for Non Solar to meet RPO for the earlier periods as well for the future. The table below provides the computation of RPO for the period from FY 2010-11 to FY 2015-16 which will be considered while floating the tender.

Table 4-16: RPO for FY 2010-11 to FY 2015-16

Particulars	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	Total Impact
Consumption (Sales)	2,727	2,746	2,829	2,869	2,926	2,985	17,083
Non-Solar RPO %	0.75%	1.70%	2.60%	2.60%	2.60%	2.60%	
Solar RPO %	0.25%	0.30%	0.40%	0.40%	0.40%	0.40%	
Total RPO %	1.00%	2.00%	3.00%	3.00%	3.00%	3.00%	
Non-Solar (MUs)	20	47	74	75	76	78	369
Solar (MUs)	7	8	11	11	12	12	61
Total RE Power (MUs)	27	55	85	86	88	90	430
Total Non-Solar (MUs) to be procured in 3 years				123	123	123	369
Total Solar (MUs) to be procured in 3 years				20	20	20	61
Total RE Power (MUs) to be procured in 3 years				143	143	143	430
Non-Solar (Avg Rate/kWh)				5.00	5.25	5.50	
Solar (Avg Rate/kWh)				11.00	10.00	9.00	
Non-Solar (Rs.Crs)				61.50	64.57	67.65	193.72
Solar (Rs.Crs)				22.55	20.50	18.45	61.49
Total RE Power Cost (Rs.Crs)				84.04	85.07	86.09	255.21
Less: Allowed in TO FY13 for FY12-13				40.83			
Total RE Power Cost claimed in FY14 (Rs.Crs)				43.21			

4.7.20 The cost of non-solar has been considered based on best estimates, market trend and feed-in-tariffs for all sources available in various states. It is assumed that in tender process, the rate for non-solar may be quoted on higher side in subsequent years and lower side for solar power in subsequent years.

4.7.21 The actual power from RPO would be available only in the subsequent year, i.e. FY 2013-14. Therefore, ED – Goa, has considered only the cost in FY 2012-13 and not the quantum in Energy Balance. The cost of RPO for FY 2012-13 has been considered equivalent to the amount allowed by the Hon'ble Commission in its tariff order for FY 2012-13.

4.7.22 Hon'ble Commission is requested to approve the amount for RPO compliance for FY 2012-13 at Rs. **40.83** Crores.



4.7.23 **Transmission Charges FY 13 – H2:** The Transmission Charges for FY 2012-13 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.

4.7.24 The transmission charges for 2nd half of FY 12-13 are computed based on the CERC Order No. L-1/44/2010-CERC dated 30th November 2012. The copy of the order is available on the CERC website and also being provided in soft copy in the CD.

4.7.25 ED – Goa has also considered the impact of Revised RLDC charges which has come into effect vide notification no.–L- 7/145(160)/2012—CERC dated 31st December 2012 in the matter of CERC (Terms and Conditions of Tariff) (Third Amendment) Regulations, 2012. The copy of the notification is available on the CERC website and also being provided in soft copy in the CD. The relevant extract of the amendment is provided as below:

13. Addition of New Regulation to the Principal Regulations

A new regulation shall be added after Regulation 42 of the Principal Regulations as under, namely:

“42A. Reimbursement of Fees, Charges and Expenses

(1) The following fees and charges shall be reimbursed directly by the beneficiaries in proportion of their allocation in the generating stations or by the transmission customers in proportion to their share in the inter-State transmission systems determined in accordance with Regulation 33 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009 upto 30.6.2011 and thereafter, in accordance with the Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulations, 2010 as amended from time to time;

(a) Fees and charges paid by the generating companies and inter-State transmission licensees (including deemed inter-State transmission licensee) under Central Electricity Regulatory Commission (Fees and Charges of Regional Load Despatch Centre and other related matters) Regulations, 2009, as amended from time to time;

(b) Licence fees paid by the inter-State transmission licensees (including the deemed inter-State transmission licensee) in terms of the Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2008 and



Central Electricity Regulatory Commission (Payment of Fees) Regulations 2012 or any subsequent amendment or re-enactment thereof;

(c) Licence fees paid by NHPC Ltd to the State Water Resources Development Authority, Jammu in accordance with the provisions of Jammu & Kashmir Water Resources (Regulations and Management) Act, 2010.

(2) The generating companies and inter-State transmission licensees (including deemed inter-State transmission licensee) shall be entitled to recover the fees and charges as mentioned in clause (1) of this regulation which have been paid till the notification of these regulations

(3) The Commission may, in its discretion and for the reasons to be recorded in writing and after hearing the affected parties, allow reimbursement of any fee or expenses as may be considered necessary.”

4.7.26 The computation of transmission charges for Part-A and part-B is provided in the table below:

Table 4-17: Transmission Charges Part-A for FY 2012-13 (Oct – Mar 13)

Part A - Total Transmission Charges for Withdrawal of Power

Regions	Rates Rs/Mw/ Month **	Monthly Quantum (MW)	Oct 2012 to March 2013 (6 months) - MW	Total Charges (Rs.Crs)
Southern Region*	74,250.00	92.75	557	4.13
Western Region*	79,968.00	361.73	2,170	17.36
Total				21.49

* Figures of MW as per Dec 2012 RTA bill (SR + WR)

** Latest available rates for Oct12-Mar13 considered as per CERC Order dated 30.11.2012



Table 4-18: Transmission Charges Part-B for FY 2012-13 (Oct – Mar 13)

Part B - Total Transmission Charges of Generators					
Stations	Rates Rs/Mw/ Month **	Monthly Quantum (MW) *	Total Charges (Rs.Crs)	Share of ED-Goa *	Share of ED- Goa (Rs.Crores)
RSTPS - SR	59520	1,948.59	11.60	4.760%	0.55
KSTPS	109968	1,948.59	21.43	10.124%	2.17
VSTPS - I	109968	1,146.60	12.61	2.932%	0.37
VSTPS - II	109968	935.00	10.28	1.357%	0.14
VSTPS -III	109968	935.00	10.28	1.159%	0.12
KGPP	79968	636.51	5.09	1.885%	0.10
GGPP	79968	637.67	5.10	1.921%	0.10
SIPAT-2	109968	935.00	10.28	1.159%	0.12
KORBA - III	109968	467.50	5.14	1.092%	0.06
KAPS	79968	404.80	3.24	3.517%	0.11
TAPS	79968	982.80	7.86	1.179%	0.09
SIPAT-1	109968	1,851.30	20.36	1.202%	0.24
RGPPL	109968	95.40	1.05	20.000%	0.21
Total - (Rs.)			124.32		4.38
Total for 6 Months (Rs.Crs)					26.28

* Figures of MW as per Dec 2012 RTA bill (SR + WR)

** Latest available rates for Oct12-Mar13 considered as per CERC Order dated 30.11.2012

4.7.27 Accordingly, the Transmission Charges for 2nd half of FY 2012-13 is summarized in the table below:

Table 4-19: Summary of Transmission Charges for FY 2012-13 (Oct – Mar 13)

Particulars	Rs.Crs
Part - A Transmission Charges (Oct12-Mar 2013)	21.49
Part - B Transmission Charges (Oct12-Mar 2013)	26.28
KPTCL Wheeling Charges (FY2012-13 H2)	0.91
Fees and charges of SLDC - WR	0.28
Fees and charges of SLDC - SR	0.25
SCADA charges	0.37
MSETCL (RGPPL)	1.26
Reactive charges	0.14
Impact of CERC Order dt (for Revised RLDC Charges)	1.96
Total Transmission Charges (Oct12-Mar 2013)	52.94

4.7.28 Thus, the total Transmission charge works out to be Rs. **102.10** Crores (Rs. **49.15** Crores + Rs. **52.94** Crores)

4.7.29 **Power Purchase Cost summary FY 12-13:** In line with the foregoing paragraphs, the total Power Purchase for FY 2012-13 is summarized in the table below:



Table 4-20: Power Purchase Summary for FY 2012-13

Sr. No	Particulars	Purchase (Mus)	Fixed Charges (Rs.Crs)	Energy Charges (Rs.Crs)	Other & Suppl Charges (Rs.Crs)	Total Cost (Rs.Crs)
1	NTPC	3,045	207.27	379.05	19.19	605.51
2	RGPPPL	63	-	31.59	-	31.59
3	NPCIL	185	-	48.00	-	48.00
4	Traders	21	-	8.43	-	8.43
5	Overdrawal	60	-	24.30	-	24.30
6	Co - Generation	93	-	22.43	-	22.43
7	IPP	105	19.83	119.77	-	139.60
8	Renewable Energy Source	-	-	40.83	-	40.83
9	Transmission Charges	-	-	-	102.10	102.10
	Grand Total	3,573	227.10	674.41	121.29	1,022.80

4.7.30 It is requested Hon'ble Commission to approve the power purchase cost including transmission charges at Rs. **1,022.80** Crores for FY 2012-13 as per revised workings and at an average cost of Rs. **2.86** /kWh. Further the Regional Energy Accounts (REA) and Regional Transmission Accounts (RTA) for the period from April 2012 to December 2012 are provided in soft format along with the petition for verification and scrutiny of the Commission.

4.7.31 ED-Goa submits that above power purchase excludes revenue from underdrawal and revenue from sale/ diversion of power to exchanges. The same are shown under revenue (income) head. However ED-Goa would like to make a brief comparison of net power purchase cost if these are taken into consideration as the power does not actually come into the state periphery. The table below depicts the net power purchase cost for FY 2012-13 for reference purpose to highlight net per unit cost.

Table 4-21: Net Power Purchase Cost per unit for FY 2012-13

Particulars	MUs	Rs.crs	Rs/kWh
Total PP Cost for FY12-13	3,573	1,022.80	2.86
Less: Underdrawal & / Exchange Power	119	35.61	2.99
PP Cost for FY12-13 after adjst of above	3,453	987.19	2.86
Less: PGCIL Losses	163	-	-
Net PP Cost for FY12-13 after PGCIL Losses	3,291	987.19	3.00
Less: Transmission Charges	-	102.10	
Net PP Cost for FY12-13	3,291	885.09	2.69

4.7.32 As can be seen, the net power purchase cost for FY 2012-13 without transmission charges is Rs. **2.69** /kWh.



4.7.33 ED-Goa would also like to provide information pertaining to the power purchase cost projected in ARR of FY 2012-13 alongwith the approval of Commission and the revised projections in this petition. The summary table is provided below:

Table 4-22: Power Purchase Cost Revised Estimates Comparison for FY 2012-13

Sr. No	Particulars	FY 2012-13 (Projected)		FY 2012-13 (Approved)		FY 2012-13 (Rev.Est)	
		Purchase (Mus)	Total Cost (Rs.Crs)	Purchase (Mus)	Total Cost (Rs.Crs)	Purchase (Mus)	Total Cost (Rs.Crs)
1	NTPC	3,075	563.62	2,902	524.22	3,045	605.51
2	RGPPL	136	54.44	88	40.18	63	31.59
3	NPCIL	193	47.13	200	49.70	185	48.00
4	Traders					21	8.43
5	Overdrawal					60	24.30
6	Co - Generation	172	41.18	172	41.20	93	22.43
7	IPP	108	108.31	-	19.80	105	139.60
8	Renewable Energy Source	88	41.15	88	40.80	-	40.83
9	Transmission Charges		103.59	-	95.70	-	102.10
	Grand Total	3,772	959.41	3,449	811.60	3,573	1,022.80

4.7.34 The difference in revised power purchase cost vis-a-vis approved cost is due to:

- Non-finalisation of PPA / approval from Govt of Goa for purchase of power from Sesa Goa Ltd (co-generation)
- Power Purchase from Reliance – IPP
- Delay in RPO compliance / approval from Govt of Goa and as a result purchase of power from trader/ open market

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 2012-13:** ED – Goa has computed the O&M (**Employee Expense**) expense in line with the aforesaid Regulation. The base Employee Expense for FY 2011-12 is taken equivalent to the expense, approved by the Hon'ble Commission in its tariff order, at Rs. 125.89 Crs. The Employee Expense for FY 2012-13 is arrived at by considering escalation of **8.94%** which is as per WPI data for the year FY 2011-12.

4.8.4 The computation of WPI for FY 2011-12 has been provided in Tariff Filing Format 24 and is reproduced below for reference.

Table 4-23: Wholesale Price Index Computation for FY 2011-12

Sr. No.	Period	WPI	Increase over previous year
1	2	3	4
1	Financial Year 2007-08	116.63	
2	Financial Year 2008-09	126.02	8.05%
3	Financial Year 2009-10	130.81	3.80%
4	Financial Year 2010-11	143.32	9.56%
5	Financial Year 2011-12	156.13	8.94%

4.8.5 The WPI data as downloaded from website of OEA (Office of Economic Advisor) is provided in the figure below:



Figure 2: Wholesale Price Index Annual Data



- 4.8.6 Accordingly, the Employee Expense for the year FY 2012-13 works out to be Rs. **137.14** Crores. Further the actual employee expenses for first six months period from April-September 2012 is Rs. **75.76** Crores. The head wise actual information for employee expenses has been provided in **Format 16 of Tariff Filing Format**.
- 4.8.7 **Repairs & Maintenance Expenses for FY 2012-13:** 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. The R&M activities carried out pertain to Plant & Machinery, Hydraulic works, civil works etc.
- 4.8.8 It is submitted that ED-Goa requests that R&M expenses may not be approved based on the WPI inflation on previous year as R&M expenses are directly linked to the Gross Fixed Assets. It is submitted that ED-Goa has been undertaking huge infrastructure and network development schemes and hence R&M expenses are likely to increase. It is further submitted that if WPI inflation is considered over FY 2011-12 actual amount, the R&M expenses as per Commission methodology work out to Rs.18.55 Crores.



4.8.9 ED-Goa has actually incurred amount of Rs. **7.70** Crores in the first six months period from April-September 2012. Further ED-Goa has considered the revised budget estimates submitted to Government of Goa for the purpose of revised projections of FY 2012-13 in this petition. The R&M expenses based on provisional actuals and revised estimates for the year FY 2012-13 computes to Rs. **21.19** Crores. The Hon'ble Commission is requested to approve the R&M expenses based on the actual basis or may approve linked to Gross fixed assets as is being done in other states.

4.8.10 **Administration & General expenses for FY 2012-13:** As mentioned earlier, Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.

4.8.11 The Commission in the tariff order for FY 2012-13 had approved A&G expenses based on inflation over FY 2011-12. However ED-Goa would like to mention that the A&G expenses for the electricity department for the purpose of ARR is at much lower side. The actual expense for first six months period from April-September 2012 is Rs. **3.10** Crores.

4.8.12 Further ED-Goa has considered the revised budget estimates submitted to Government of Goa for the purpose of revised projections of FY 2012-13 in this petition. The A&G expenses based on provisional actuals and revised estimates for the year FY 2012-13 computes to Rs. **8.59** Crores. Hon'ble Commission is requested to approve A&G expenses as per revised projections for FY 2012-13.

4.8.13 **O&M Expenses Summary FY 2012-13:** Based on the foregoing paragraphs, the revised O&M expenses for the year FY 2012-13 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

Table 4-24: O&M Expenses for FY 2012-13

Particulars	FY 2012-13	FY 2012-13	FY 2012-13
	Rs.Crs	Rs.Crs	Rs.Crs
	Projection	Approved	(Rev. Est)
Employee Expense	155.05	136.21	137.14
R&M Expense	26.91	18.52	21.19
A&G Expense	22.84	21.00	8.59
Total	204.80	175.74	166.93



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 2012-13 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 are shown in the section below.

4.9.2 ED – Goa would like to submit that it in line with the Commission's directive it has submitted a detailed Capital Investment Plan to the Hon'ble Commission on 30th January 2013 for the Hon'ble Commission's approval. However, for the ease of reference, ED – Goa hereby submits a gist on the Capital Expenditure incurred for the year FY 2012-13.

Table 4-25: Capital Expenditure for FY 2012-13

Sr. No	Name of Scheme	Capex FY 13 (Rs.Crs)
1	Schedule Tribe Development Scheme & Scheduled castes development scheme(P)	34.50
2	Normal Development Schemes (Plan)	19.45
3	Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim	5.00
4	Erection of 220 KV line from Xeldem to Cuncolim	3.00
5	Strengthening of 220 KV Transmission Network	5.00
6	Augmentation of Kadamba S/S from 2x40 MVA to 4x40 MVA (Plan) including new 110 KV line	0.21
7	Erection of 220/110/33/11 KV Sub-Station at Verna (New)	0.00
8	Erection of 220 KV line from Ponda-Verna-Xeldem	0.00
9	APDRP (State Schemes)	30.00
10	Restructured Accelerated Power Development and Reforms Program	10.00
11	Infrastructure Schemes through Electricity Duty Funds	110.00
12	Other Minor Schemes	7.50
	Total	224.66

4.9.3 As seen from the above table, the majority of the Capex incurred is for Infrastructure Schemes through Electricity Duty Funds, APDRP and R-APDRP. The total Capital Expenditure for FY 2012-13 is Rs. **224.66** Crores. The detail of capital expenditure schemes for FY 2012-13 is provided in the **Format 5 of Tariff Filing Formats.**



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

Table 4-26: CWIP for FY 2012-13

Sr. No	Particulars	FY 2012-13 (Rs.Crs)
		Rev. Est
1	Opening balance	344.70
2	Add: New investments	224.66
3	Total	569.36
4	Less investment capitalized	81.30
5	Closing balance	488.06

4.9.5 The Opening Balance of GFA for FY 2012-13 comes to around Rs. **877.10** Crores. The additions to GFA are estimated to be around Rs. **81.30** Crores; the details of which are provided in the table below:

Table 4-27: Details of GFA for FY 2012-13

Sr. No.	Assets group	Value of assets at the beginning of previous year	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year	Addition during ensuing year	Closing balance at the end of ensuing year
		2011-12	2011-12	2011-12	2011-12	2012-13	2012-13
		3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	Land	4.68					
2	Building	6.77					
3	Other Civil Works	10.76					
4	Plant & Machinery	100.39					
5	Transformers centres	91.60					
6	New Sub- Stations	22.43					
7	Static Machine Tools	2.42					
8	Vehicles (incl. Self propelled)	5.28					
9	Switch gear & S/S equip.	39.49					
10	Meters	52.05	126.00	-	877.10	81.30	958.40
11	Furniture and Fixtures	1.55					
12	Office Equipments	1.20					
13	Overhead lines	174.97					
14	Lightening arrestors	8.47					
15	Batteries	0.27					
16	St. light fittings	21.58					
17	Service lines	17.81					
18	Underground cables	182.15					
19	Others	7.23					
20	Total - Rs.Crores	751.10	126.00	-	877.10	81.30	958.40



4.9.6 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. 2.15 Crores. The table below shows the working of Depreciation:

Table 4-28: Depreciation for FY 2012-13

Sr. No.	Assets group	Rate of Dep	Value of assets at the beginning of previous	Addition during ensuing year	Value of Asset disposed/ sold	Asset Value for Depreciation	Dep charges
		2011-12	2011-12	2011-12	2011-12	2012-13	2012-13
1	2	3	4	5	6	7	8
1	Land	5.28%	877.10	81.30	-	958.40	2.15
2	Building						
3	Other Civil Works						
4	Plant & Machinery						
5	Transformers centres						
6	New Sub- Stations						
7	Static Machine Tools						
8	Vehicles (incl. Self propelled)						
9	Switch gear & S/S equip.						
10	Meters						
11	Furniture and Fixtures						
12	Office Equipments						
13	Overhead lines						
14	Lightening arrestors						
15	Batteries						
16	St. light fittings						
17	Service lines						
18	Underground cables						
19	Others						
20	Total - Rs.Crores		877.10	81.30	-	958.40	2.15

4.9.7 The Hon'ble Commission is requested to approve the depreciation for the assets added during the year for FY 2012-13.

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 loan is only to the extent of the APDRP schemes. ED – Goa has also considered the Letter of Credit charges for claiming rebates on power purchase. The total Interest and Finance Charges for the year FY 2012-13 are Rs. **8.99** Crores. The table below



shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission.

Table 4-29: Interest & Finance Charges for FY 2012-13

Sr. No	Particulars	FY 2012-13 (Rs.Crs)	FY 2012-13 (Rs.Crs)
		Approved	Rev. Est
1	Opening Normative Loan	88.20	100.54
2	Additions during the year	124.97	-
3	Less: Loan Repayment	8.82	12.82
4	Closing Normative Loan	204.35	87.72
5	Average Normative Loan	146.28	94.13
6	Interest Rates - actual	14.75%	8.49%
7	Interest on Loan	21.58	7.99
8	Finance Charges	0.80	1.00
9	Interest on Loan & Finance Charges	22.38	8.99

4.10.2 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. **8.99** Crores as shown in the table for FY 2012-13. The details of Interest & Finance charges are provided in **Format 10 and Annexure to Format 10 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 Interest Rate is considered equivalent to the SBI PLR for the year FY 2012-13 which is at **14.75%**.

4.11.3 In line with the aforesaid regulation, the Interest on Working Capital works out to Rs. **4.59** Crores for FY 2012-13 which is provided in the table below:



Table 4-30: Interest on Working Capital for FY 2012-13

Sr. No	Particulars	FY 2012-13	FY 2012-13
		(Rs.Crs)	(Rs.Crs)
		Approved	Rev. Est
1	Power Purchase Cost - 1 Month	67.64	85.23
2	Employee Cost - 1 Month	11.35	11.43
3	Administration & General Expenses- 1 Month	1.75	0.72
4	R&M Cost - 1 Month	1.54	1.77
5	Less: Security Deposits (in cash)	70.24	68.04
6	Total	12.04	31.11
7	Interest Rate as on 1st Apr 2012	14.75%	14.75%
8	Interest on Working Capital	1.78	4.59

4.11.4 The Hon'ble Commission is requested to approve the Interest on Working Capital as presented in the table above. The details of Interest on Working Capital for FY 2012-13 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 19th April 2012. The notification of RBI is provided at **Annexure VI: RBI Bank Rate notification**

4.12.2 In lieu of the above, Interest on Security Deposit is calculated at Rs. **5.73** Crores. The table below shows details of Interest on Security Deposit for FY 2012-13:

Table 4-31: Interest on Security Deposit for FY 2012-13

Sr. No	Particulars	FY 2012-13	FY 2012-13
		(Rs.Crs)	(Rs.Crs)
		Approved	Rev. Est
1	Opening Security Deposit	62.57	59.25
2	Add: Deposits during the Year	9.19	9.62
3	Less: Deposits refunded	1.52	0.84
4	Less: Deposits in form of BG/FDR		-
5	Closing Security Deposit	70.24	68.04
6	Bank Rate	9.50%	9.00%
7	Interest on Security Deposit	5.94	5.73



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 2012-13 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 table below shows Return on Capital Base for FY 2012-13:

Table 4-32: Return on Capital Base for FY 2012-13

Sr. No	Particulars	FY 2012-13 (Rs.Crs)	FY 2012-13 (Rs.Crs)
		Approved	Rev. Est
1	Gross block at beginning of the year	126.00	877.10
2	Less accumulated depreciation	3.33	181.86
3	Net block at beginning of the year	122.67	695.24
4	Less accumulated consumer contribution		
5	Net fixed assets at beginning of the year	122.67	695.24
6	Reasonable return @3% of NFA	3.68	20.86

4.13.3 The Hon'ble Commission is requested to approve the Return on Capital Base at Rs. **20.86** Crores as shown in the table above. The details of Return on Capital Base for FY 2012-13 are provided in **Format 6 of the Tariff Filing Formats**.

4.14 CGRF Expense

4.14.1 The Hon'ble Commission has issued JERC (Establishment of Forum for Redressal of Grievances of the Consumers) Regulation, 2009 and according to the Regulations, every distribution licensee needs to establish a forum for Redressal of Grievances of consumers.

4.14.2 The petitioner has estimated expenses of Rs. **0.60** Crores for FY 2012-13. This expense pertains to the salaries of the members, domestic travel expenses, office expense, advertisement etc. The Hon'ble Commission is requested to approve the CGRF expenses for FY 2012-13.



4.15 Non Tariff Income

4.15.1 Non-Tariff Income comprises of proceeds from sale of dead stock, waste paper, Receipt from State Electrical Inspectorate & other miscellaneous receipts. The Non Tariff Income for the year FY 2012-13 comes to Rs. **23.06** Crores which is in line with the Non Tariff Income approved by the Hon'ble Commission of **Rs. 22.53 Crs.**

4.15.2 The details of Non Tariff Income for FY 2012-13 are provided in **Format 21 of the Tariff Filing Formats.**

4.16 Revenue from Sale of Surplus Power

4.16.1 There has been surplus of Power available during FY 2012-13 and ED – Goa has been diverting / selling to grid, Power Exchanges. The total revenue from sale of such surplus power through UI Pool for first six months is Rs. **11.94** Crores for **43** MUs. The revenue from power diverted to exchange for first six months is Rs. **12.08** Crores for **39** MUs.

4.16.2 The revenue estimated from surplus power available during H2 of FY 2012-13 is Rs. **11.58** Crores for **37** MUs.

4.16.3 The revenue from sale of surplus power for FY 2012-13 computes to Rs. **35.61** Crores and Hon'ble commission is requested to approve the same.

4.17 Fuel & Power Purchase Cost Adjustment (FPPCA)

4.17.1 It is submitted that any changes in the power purchase expenses during the year is to be recovered by ED-Goa from its consumers through a FPPCA Mechanism as approved by the Hon'ble Commission.

4.17.2 ED-Goa as per the formula prescribed in FPPCA order dated 27th June 2012, had computed FPPCA for 1st quarter and levied the same in the 2nd quarter. The revenue so billed through FPPCA charges in H1 of FY 2012-13 is Rs. **5.83** Crores.

4.17.3 Further ED-Goa has computed FPPCA for 2nd quarter and levied the same in 3rd quarter would be approx Rs. **10.63** Crores.

4.17.4 Further ED-Goa has computed FPPCA for 3rd quarter and to be levied the same in 4th quarter would be approx Rs. **16.57** Crores.

4.17.5 The total expected revenue from FPPCA for FY 2012-13 works out to Rs. **33.03** Crores and Hon'ble Commission is requested to approve the same.



4.18 Revenue from Sale of Power at Existing Tariff

4.18.1 The revenue from sale of power from existing retail tariffs for H1 of FY 2013-14 on actual basis is Rs. **471.17** Crores.

4.18.2 The revenue computed based on revised (approved) tariff for H2 of FY 2012-13 computes to Rs. **456.88** Crores. Accordingly, the total revenue from sale of power estimated for FY 2012-13 is Rs. **928.05** Crores and is tabulated category wise as under:

Table 4-33: Revenue from Sale of Power for FY 2012-13

Sr. No	Consumer Category	Energy Sale	Revenue	Avg. Revenue
		MUs	Rs. Crs	Rs./unit
1	2	4	10	12
A	Low Tension Supply	1,198	271.03	2.26
1(a)	Tariff LTD/Domestic and Non-Commercial	810	145.39	1.79
1(b)	Tariff LTD/Low Income Group	9	0.43	0.47
1(c)	Tariff LTD/Domestic Mixed	4	1.15	2.88
2	Tariff-LTC/Commercial	260	92.08	3.54
3 (a)	Tariff-LTP/Motive Power	74	22.13	3.01
3 (b)	Tariff-LTP/ Ice Manufacturing	-	-	-
3(a)	Tariff-LTP/Mixed (Hotel Industries)	5	2.03	4.00
4	Tariff-LTAG/Agriculture	18	2.23	1.24
5	Tariff-LTPL/Public Lighting	16	5.01	3.17
6	Tariff-LT PWW/Public Water Works	2	0.59	2.56
B	High Tension Supply	1,616	646.07	4.00
7	Tariff HT-Mixed	206	80.21	3.89
8(a)	Tariff HTI/Industrial	546	223.48	4.10
8(b)	Tariff HTI/Hotel Industries	50	22.17	4.41
8(c)	Tariff HTI/Ice Manufacturing	0	-	-
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	540	195.98	3.63
10	Tariff-HTAG/Agriculture	8	1.20	1.59
11	EHTI/Industrial	110	48.93	4.45
12	H.T. PW/Public Water Supply and Sewage	110	38.70	3.52
13	H.T. MES/Defence Establishments	34	12.22	3.60
14	H.T. Industrial (Steel Rolling)	56	20.68	3.69
15	Tariff HT-Industries (IT High Tech).	7	2.50	3.55
C	Temporary Supply	15	10.95	7.50
16	Tariff-LT/Temporary	14	10.32	7.50
17	Tariff-HT/Temporary	1	0.63	7.50
	Total Demand/ Sale Within State	2,829	928.05	3.28

**4.19 Aggregate Revenue Requirement for FY 2012-13**

4.19.1 Based on the submissions made in the foregoing paragraphs, the net Aggregate Revenue Requirement for the year FY 2012-13 and the revenue gap is shown in the table below:

Table 4-34: Aggregate Revenue Requirement for FY 2012-13

Sr. No	Particulars	FY 2012-13	FY 2012-13	FY 2012-13
		Rs.Crs	Rs.Crs	Rs.Crs
		Projected	Approved	Rev. Est
1	Cost of power purchase	959.41	811.64	1,022.80
2	Employee costs	155.05	136.21	137.14
3	R&M expenses	22.84	18.52	21.19
4	Administration and general expenses	26.91	21.00	8.59
5	Depreciation	4.71	11.37	2.15
6	Interest on Loan & Finance charges	8.97	22.38	8.99
7	Interest on Working Capital	not claimed	1.78	4.59
8	Interest on Security Deposit	3.98	5.94	5.73
9	Return on NFA /Equity	not claimed	3.68	20.86
10	Provision for Bad Debt	not claimed	-	-
11	CGRF Expenses	-	-	0.60
12	Total Revenue Requirement	1,181.88	1,032.51	1,232.63
13	Less: Non Tariff Income	22.53	22.53	23.06
14	Less: Revenue from Sale of Power - UI Pool	13.70	-	11.94
15	Less: Revenue from Sale of Power-Exchange	92.16	-	23.66
16	Net Revenue Requirement (12-13-14-15)	1,053.49	1,009.98	1,173.97
17	Revenue from Retail Sales at Existing Tariff	884.70	967.72	928.05
18	Revenue from FPA Charges	-	-	33.03
19	Net Gap (16-17-18)	168.79	42.26	212.89
20	Energy sales (MU)	2,940	2,916	2,829
21	Average Cost of Supply (Rs/kWh)	3.58	3.46	4.15

4.19.2 The Hon'ble Commission is requested to approve the net ARR of FY 2012-13 computed at Rs. **1,173.97** Crores as per revised projections and the treatment to revenue gap is discussed in chapter 6 of this petition.



CHAPTER 5. ANNUAL REVENUE REQUIREMENT FOR FY 2013-14

This Section captures the Annual Revenue Requirement of ED-Goa for FY 2013-14 which takes into consideration:

- i. Projections for FY 2013-14 based on the performance of past years;
- ii. Principles outlined in Tariff Regulations 2009 of JERC;

Past trends have been taken into cognizance in case of certain elements as deemed necessary. The present section has been structured in the following manner:

- **Determination of Energy Requirement**
 - Sales Projections
 - Loss Trajectory
 - Energy Balance
 - Power Purchase Sources
- **Determination of the Annual Revenue Requirement**
 - Power Purchase Costs & Transmission Charges;
 - Operation and Maintenance Expenses;
 - Employee Expenses
 - Administration & General expenses
 - Repairs & Maintenance Expenses
 - Proposed Capital Expenditure and capitalization
 - Scheme wise details
 - Capital Expenditure
 - Asset Capitalisation
 - Electricity Duty Fund Account
 - Gross Fixed Assets;
 - Depreciation;
 - Interest on Long Term Loans;
 - Interest on Working Capital & Security Deposits;
 - Return on Capital Base/ Net Fixed Assets;
 - Provision for Bad and Doubtful Debts;
 - Other expenses

5.1 Number of Consumers & Connected Load:

5.1.1 The consumer base of Goa comprises of HT Industry, LT Industry, Commercial and Domestic consumers with the maximum consumption attributable to Domestic Consumers. ED – Goa foresees a minimal growth in LT category in the near future. Therefore ED – Goa has considered a minimal increase of 0.5% increase in number of consumers and in the load for LT Categories over the previous year. Further, ED



– Goa has not considered any increase for consumers and connected load HT Category. The table below shows category wise number of consumers & the corresponding connected load for the FY 2013-14.

Table 5-1: Number of Consumers & Connected Load – FY 2013-14

Sr. No.	Category of Consumer	No. of Consumer FY 2013-14	Connected Load FY 2013-14 (kW/kVA)
A	Low Tension Supply	582,956	
1(a)	Tariff LTD/Domestic and Non - Commercial	443,395	686,749
1(b)	Tariff LTD/Low Income Group	14,303	4,583
1(c)	Tariff LTD/Domestic Mixed	50	85
2	Tariff LTC/Commercial	94,944	258,675
3 (a)	Tariff LTP/Motive Power	9,569	334,885
3(b)	Tariff-LTP/Ice Manufacturing	-	-
3(c)	Tariff-LTP/Mixed (Hotel Industries)	-	-
4	Tariff-LTAG/Agriculture	11,080	66,731
5	Tariff-LTPL/Public Lighting	9,065	12,762
6	Tariff-LT PWW/Public Water Works	550	12,440
B	High Tension Supply	752	
7	Tariff HT-Mixed	201	72,972
8(a)	Tariff HTI/Industrial	367	206,651
8(b)	Tariff HTI/Hotel Industries	47	26,507
8(c)	Tariff HTI/Ice Manufacturing	-	-
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	26	99,423
10	Tariff-HTAG/Agriculture	42	8,469
11	EHTI/Industrial	4	60,135
12	H.T. PW/Public Water Supply and Sewage	31	27,141
13	H.T. MES/Defence Establishments	12	6,690
14	H.T. Industrial (Steel Rolling)	13	20,045
15	Tariff HT-Industries (IT High Tech).	8	3,195
C	Temporary Supply	413	2,652
16	Tariff-LT/Temporary	413	2,652
17	Tariff-HT/Temporary	-	-
18	Total Number of Consumers/ Connected Load (A+B+C)	584,121	

5.2 Energy Sales

5.2.1 **Approach to Energy Sales:** The consumer base of Goa consists of HT Industry, LT Industry, Commercial and Domestic consumers. Sales mix is primarily dominated by HT Industry & LT Industry, followed by Domestic category. The total consumption for HT Industry is approximate 56 percent and Domestic category contributes to around 29 percent of total sales. The balance sales are contributed



by other categories of consumers. Thus, the sales forecast would mostly depend on the sales expected in the HT Industry & Domestic Category.

5.2.2 The sales forecast is based on the trends observed in the sales pattern of various categories over the past years, new developments on account of Government Policies, Socio economic changes, industrial growth, etc. that would affect consumption across various categories of consumers.

5.2.3 ED – Goa has been witnessing increase in sales in particular categories. Hence, in order to arrive at the Category wise Sale projections for FY 2013-14; ED – Goa on the basis of 5 year CAGR has projected the sales by assuming a certain growth percentage over the previous year's Sales figures. The 5 year CAGR and the assumed Growth percentage are shown in the table below:

Table 5-2: CAGR (5 year) & Assumed Growth Rate

Category	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	5 Yr CAGR %	Assumed Growth % for FY14
	Actuals	Actuals	Actuals	Actuals	Actuals	Rev Est.		
Domestic	540	554	662	702	702	823	9%	3%
Commercial & Misc	181	203	295	319	305	260	7%	2%
Public Lighting	36	35	31	33	31	16	-15%	0%
Public Water works	107	108	116	122	119	112	1%	0%
Irrigation Pump sets	16	17	16	18	14	26	10%	2%
Industries LT	83	90	77	88	98	79	-1%	1%
Industries HT	1,184	1,152	1,209	1,306	1,279	1,259	1%	0.5%
Railway Traction	-	-	-	-	-	-	0%	0%
Non Industrial	128	148	131	139	185	240	13%	1%
Temp. Supply LT/HT	-	-	-	-	14	15	0%	1%
Others								
Total	2,275	2,307	2,537	2,727	2,746	2,829	4%	1%

5.2.4 Based on the growth rate % as shown in the table above, the total Sales for ED – Goa for FY 2013-14 comes to around **2,919** MUs. The detail breakup of the sales is shown in the following table:



Table 5-3: Category wise sales for FY 2013-14

Sr. No.	Category of Consumer	FY 2013-14
A	Low Tension Supply	1,229
1(a)	Tariff LTD/Domestic and Non - Commercial	834
1(b)	Tariff LTD/Low Income Group	9
1(c)	Tariff LTD/Domestic Mixed	4
2	Tariff LTC/Commercial	265
3 (a)	Tariff LTP/Motive Power	74
3(b)	Tariff-LTP/Ice Manufacturing	-
3(c)	Tariff-LTP/Mixed (Hotel Industries)	5
4	Tariff-LTAG/Agriculture	18
5	Tariff-LTPL/Public Lighting	16
6	Tariff-LT PWW/Public Water Works	2
B	High Tension Supply	1,675
7	Tariff HT-Mixed	208
8(a)	Tariff HTI/Industrial	548
8(b)	Tariff HTI/Hotel Industries	51
8(c)	Tariff HTI/Ice Manufacturing	0
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	543
10	Tariff-HTAG/Agriculture	8
11	EHTI/Industrial	110
12	H.T. PW/Public Water Supply and Sewage	110
13	H.T. MES/Defence Establishments	34
14	H.T. Industrial (Steel Rolling)	56
15	Tariff HT-Industries (IT High Tech).	7
C	Temporary Supply	15
16	Tariff-LT/Temporary	14
17	Tariff-HT/Temporary	1
18	Total Sales Within State/UT (A+B+C)	2,919

The figures of Number of Consumers, Connected Load and Sales for FY 2013-14 are provided in Format 1 of Tariff Filing Formats.

5.3 Distribution Losses & Energy Requirement

5.3.1 As mentioned earlier, ED – Goa has been taking up efforts to reduce the Distribution Loss to an optimum level. Various works under APDRP has drastically reduced the outages and the AT&C losses. The bifurcation of the feeders, new Sub-Stations has also helped in improving the voltage profile and reliability of power supply. Augmentation of the capacities of the Sub-Stations has helped in releasing additional loads to the consumers and consequent increase in revenue.

5.3.2 The distribution losses considered for FY 2013-14 are **12.50%**. It may be noted that the distribution losses for the State of Goa are comparatively lower than many



other state utilities and also competitive. ED-Goa expects that post the completion of various works carried out under Capital Expenditure; it would be in a better position to reduce the losses further.

5.3.3 **Energy Requirement at State Periphery for FY 2013-14:** Considering the retail sales to the consumers and adding the distribution loss, the net energy requirement for FY 2013-14 works out to **3,336** MUs.

5.3.4 **Transmission losses for FY 2013-14:** As explained in the previous chapter, PGCIL losses are on account of two regions – Western Region (WR) and Eastern Region (ER). Hence, while computing the Energy Requirement, losses from both the regions has been considered. The transmission loss for WR & SR for FY 2013-14 have been considered at **3.68%** and **9.50%** respectively.

5.3.5 Accordingly the Energy Balance for the year FY 2013-14 is computed and presented in the table below:

Table 5-4: Energy Balance for FY 2013-14

Sr. No.	Item	Apr-Mar (Proj) - WR	Apr-Mar (Proj) - SR	Apr-Mar (Proj) WR + SR
		FY 2013-14	FY 2013-14	FY 2013-14
1	2	3	4	5
1	Retail Sales to Consumers			2,919
	Add: Distribution Losses - %			12.50%
	Distribution Losses - MUs			417
2	Net Energy Requirement at Goa Periphery			3,336
3	Total Power Scheduled at Goa Periphery			
	Scheduled Power from NTPC, RGPPL, NPCIL & RSTPS	2,469	710	3,179
	Add: Power from Open Market during peak	41	-	41
	Less: (Surplus Power diversion to exchange during off-peak)	(17)	-	(17)
	Total	2,493	710	3,203
4	Less: PGCIL Losses - %	3.68%	9.50%	4.97%
	PGCIL Losses - MUs	92	67	159
5	Total Power Purchased within Goa State			
	Add: Co-generation	148	-	148
	Add: Renewable Energy Sources	143	-	143
	Add: Independent Power Producers (IPP)	-	-	-
	Total	292	-	292
6	Energy Input at Periphery after PGCIL Losses & State Power Purchase	2,693	643	3,336



5.3.6 The projection for power purchase quantum for each of the source has been discussed in subsequent sections of this petition. The figures of Energy Balance for FY 2013-14 are provided in **Format 3 of Tariff Filing Formats**.

5.3.7 Further, ED – Goa would like to submit that the AT&C loss for ED-Goa has been lower and hovering around 14% for the last 3 years. **The figures of AT&C loss for FY 2013-14 are provided in Format 2 of Tariff Filing Formats.**

Annual Revenue Requirement for Goa

Based on the provisions of the Tariff Regulations, the estimate for the Annual Revenue Requirement (ARR) would consist of the following elements:

- Power Purchase Costs
- Transmission Charges
- Operation and Maintenance Expenses
- Depreciation
- Interest charges
- Interest on working capital
- Interest on security deposit
- Return on Capital Base/ NFA
- Provision for Bad and Doubtful Debts
- Less: Non Tariff Income

5.4 Power Purchase Quantum & Cost FY 2013-14

5.4.1 The merit order dispatch principles are typically adopted when determining the power purchases from various generating stations. However, in case of ED-Goa since most of the power is tied-up through long term PPAs it has to purchase all the power that is available at its disposal. ED – Goa proposes to meet the energy requirement from Central Sector Stations, Co-generation, and IPPs etc. Due to the dynamic load profile & urgency in the system, ED-Goa may be required to purchase power from open market whenever there is shortage. During off-peak hours there is surplus available with ED-Goa and also due to unpredictable changes in demand the available power is disposed to exchanges. However ED-Goa tries to schedule less power during off-peak hours from the allocated quota to avoid commercial loss to the extent possible.

5.4.2 **Power purchase from Central Sector Stations:** The majority of power procurement of ED – Goa comes from Central Sector Stations which is around 84%. In absence of LGBR for FY 2013-14, ED-Goa has projected same quantum of FY 2012-13 for FY 2013-14. It is submitted that due to recent coal crisis, even some



of the central sector stations are also facing problems of running plant to optimum capacity.

5.4.3 Further due to long term PPAs with CGS on RTC basis, there is surplus power available to ED-Goa during off-peak period. ED-Goa has been taking every possible step to avoid commercial loss and accordingly schedules less power from CGS quota. The power stations where ED-Goa has planned to schedule less power in FY 2013-14 are tabulated below:

Table 5-5: Reduced Scheduling from CGS – FY 2013-14

Power Purchase Sources	Reduced Scheduling (MW)	Period	Quantum (MUs)
Kawas	7.00	365 days X 10 hours x 94% PLF	24
Gandhar	7.00	365 days X 10 hours x 94% PLF	24
VSTPS-I	7.00	365 days X 10 hours x 94% PLF	24
RGPLL	4.00	365 days X 10 hours x 80% PLF	12
RSTPS		Conservative approach - based on past trend, quantum reduced	30
Total			114

5.4.4 **Power Purchase from Renewable Energy:** As discussed in earlier chapter para 4.7.19 and Table 4-16, about meeting RPO for solar and non-solar by way of tendering process; ED-Goa would be procuring power of **20** MUs for Solar and **123** MUs for non-solar in FY 2013-14.

5.4.5 **Power Purchase from Co-generation:** It is submitted that considering the share of ED-Goa from the existing co-generation plants viz Goa Energy Private Ltd and Goa Sponge Private Ltd, the power purchase for FY 2013-14 is projected at same level as of FY 2012-13. Further there has been delay in arranging power from another co-generation plant M/s.Sesa Goa Limited due to Government approval process and subsequent approval from Commission for PPA. It is expected that the power would be available in FY 2013-14 and accordingly **55.00** MUs have been considered from M/s.Sesa Goa Ltd.

5.4.6 **Power Purchase from Reliance IPP:** It is submitted that ED-Goa has not projected any power from Reliance IPP in FY 2013-14. However considering that PPA is valid till August 2014, it is committed to pay fixed charges which are factored in the ARR petition. ED-Goa would like to further mention that in case of urgency and requirement of power during peak periods and if grid/ exchange/ open market



power is unavailable, power would be procured from Reliance IPP under intimation to Hon'ble Commission. The cost of such power purchase shall be claimed through FPPCA.

5.4.7 Power Purchase from Open Market/ Traders: It is submitted since ED-Goa would not be scheduling any power from Reliance IPP, there would be shortage during peak period (morning and evening). ED-Goa shall be procuring such power from open market/ traders/ exchange. It is estimated that ED-Goa would require 20 MW of peak power i.e 4 hours in morning and 3 hours in evening. So considering 7 hours requirement for 365 days and at 80% PLF, the power available would be around **41** MUs for FY 2013-14.

5.4.8 Summary of Power Purchase FY 2013-14: The Power Purchase Quantum for FY 2013-14 is shown in the table below:

Table 5-6: Power Purchase Quantum from CGS

	Power Purchase Sources	Goa Share %	Actual H1 (Q1+Q2)	Actual Q3	LGBR Q4	Rev Est FY13	Projections FY13-14
A	Central Sector Power Stations		1,647	846	800	3,293	3,179
I	NTPC						
	<i>KSTPS</i>	10.0355	741	398	368	1,507	1,507
	<i>VSTPS - I</i>	2.8220	123	65	67	254	230
	<i>VSTPS - II</i>	1.2451	46	27	24	96	96
	<i>VSTPS -III</i>	1.0456	42	23	20	85	85
	<i>KGPP</i>	1.8851	37	12	17	67	43
	<i>GGPP</i>	1.9212	41	15	17	73	49
	<i>SIPAT- I</i>	1.0651	49	32	30	112	112
	<i>KSTPS-III</i>	0.9550	22	10	6	38	38
	<i>RSTPS</i>	4.7600	377	182	182	740	710
	<i>SIPAT- II</i>	1.0457	41	18	14	73	73
II	RGPPL	20.0000	32	16	16	63	51
III	NPCIL						
	<i>KAPS</i>	3.4400	53	26	22	101	101
	<i>TAPS</i>	1.0646	44	22	18	84	84
B	Within State Generations		109	36	53	199	148
I	CO- GENERATION						
	<i>Goa Energy Private Ltd</i>		40	20	20	80	80
	<i>Goa Sponge & Power Ltd</i>		7	3	3	13	13
	<i>Sesa Goa Limited</i>		-	-	-	-	55
II	IPP:						
	<i>Reliance Infra</i>		63	13	30	105	-
	Total		1,757	882	853	3,492	3,328



5.4.9 Further to the above power projections from central sector and state generators, power from open market at **41.00** MUs and renewable energy at **143** MUs is added and accordingly the total power available before PGCIL losses would be **3,512.35** MUs.

5.4.10 **Annual Fixed Charges for FY 2013-14:** The fixed cost for the above Power Purchase is done on the basis of allocating the Annual Fixed charges to the percentage share of the State of Goa. The Annual Fixed Charges have been considered from the latest CERC orders and considering the percentage share on the basis of RTA bill for the month of Dec 12. Accordingly, the fixed charge for various generating stations has been worked out which is depicted in the table below:

Table 5-7: Fixed Cost for Power Purchase Cost for FY 2013-14

Power Purchase Sources	CERC Prov. Orders Details	Annual Fixed Charges for Station (FY12-13) as per Prov CERC Order - Rs.Crs	Latest CERC Orders Details	Annual Fixed Charges for Station (FY12-13) - Rs.Crs	Share of Goa - %	Share of Goa - Fixed Charges (FY12-13) - Rs.Crs	Annual Fixed Charges for Station (FY13-14) - Rs.Crs	Share of Goa - Fixed Charges (FY13-14) - Rs.Crs
NTPC								
<i>KSTPS</i>	Ptn 264/2009 dt 6.7.2011	846.43	Ptn 264/2009 dt 12.10.2012	783.90	10.1239%	79.36	811.22	82.13
<i>VSTPS - I</i>	Ptn 227/2009 dt 6.7.2011	518.08	Ptn 227/2009 dt 12.9.2012	542.57	2.9320%	15.91	560.81	16.44
<i>VSTPS - II</i>	Ptn 258/2009 dt 26.12.2011	523.39	Ptn 258/2009 dt 26.12.2011	523.39	1.3568%	7.10	457.66	6.21
<i>VSTPS -III</i>	Ptn 260/2009 dt 6.7.2011	768.59	Ptn 260/2009 dt 28.5.2012	790.59	1.1587%	9.16	795.28	9.21
<i>KGPP</i>	Ptn 285/2009 dt 6.7.2011	480.90	-	480.90	1.8851%	9.07	486.12	9.16
<i>GGPP</i>	Ptn 226/2009 dt 6.7.2011	547.19	-	547.19	1.9212%	10.51	559.27	10.74
<i>SIPAT- I</i>	Ptn 28/2011 dt 3.11.2011		Ptn 28/2011 dt 6.9.2012	1,651.47	1.2015%	19.84	1,697.89	20.40
<i>KSTPS-III</i>	Ptn 247/2010 dt 9.11.2011	437.74	Ptn 247/2010 dt 3.5.2012	537.34	1.0915%	5.87	553.33	6.04
<i>RSTPS</i>	Ptn 278/2009 dt 6.7.2011	808.99	Ptn 278/2009 dt 31.8.2012	847.80	4.7600%	40.36	870.20	41.42
<i>SIPAT- II</i>	Ptn 316/2009 dt 6.7.2011	841.65	Ptn 316/2009 dt 20.1.2012	871.62	1.1585%	10.10	871.21	10.09
Total						207.27		211.86

5.4.11 Further the fixed cost obligation of Reliance-IPP of Rs. **19.83** Crores has been added to the above fixed charges of central sector which makes the total obligation of ED-Goa for fixed charges at Rs. **231.69** Crores for power purchase.



5.4.12 Variable Cost for FY 2013-14: The variable cost for FY 2013-14 has been computed considering actual average variable cost of each source for FY 2012-13. Further it is submitted that no escalation of cost has been considered.

5.4.13 Power Purchase cost of Open Market for FY 2013-14: The power purchase cost for power to be procured from open market during peak hours is estimated at Rs.5.00/kWh for the purpose of ARR projections. ED-Goa will intimate Commission about such short term power purchase and abide by the guidelines of Ministry of Power. The cost of power purchase from open market computes to Rs. **20.50** Crores.

5.4.14 Power Purchase from Renewable Energy Sources: As discussed earlier in para **4.7.19** and **Table 4-16**, the total quantum of renewable energy to be procured would be **143** MUs at a total cost of Rs. **43.21** Crores. However ED-Goa would like to mention that it is pursuing the matter of RPO in case no. 61/2012 wherein it has pleaded for consideration of meeting RPO for the power purchased from co-generation sources viz Goa Energy Pvt Ltd and Goa Sponge Pvt Ltd which are Waste Heat Recovery based power plants and are qualified under Urban & Industrial Waste source of Renewable Energy Source of Ministry of New & Renewable Energy (MNRE). ED-Goa would like to submit that presentation/projection of non-solar power in this petition is subject to the order in the matter of case no. 61/2012.

5.4.15 Power purchase from Co-Generation: ED-Goa has power purchase agreement with Goa Energy Private Limited (GEPL) and Goa Sponge & Power Limited (GSPL). Further ED-Goa has also entered into PPA with Sesa Goa Ltd for which approval are being taken from concerned authorities.

Table 5-8: Power Purchase Cost Co-generation for FY 2013-14

Sr. No	Particulars	FY 2013-14 (Projected)		
		Purchase (Mus)	Rate (Rs/kWh)	Total Cost (Rs.Crs)
1	Goa Energy Private Limited	80	2.40	19.21
2	Goa Sponge & Power Limited	13	2.40	3.22
3	Sesa Goa Limited	55	2.40	13.20
	Grand Total	148		35.63

5.4.16 The Hon'ble Commission is requested to approve the power purchase cost of Rs. **35.63** Crores for FY 2013-14 for power purchase from co-generation sources.



5.4.17 **Transmission Charges:** The Transmission charges for FY 2013-14 are considered as per POC computation, i.e. Part A - Transmission charge for withdrawal of power and Part B - Transmission charges of generators. The transmission charges for FY 13-14 are computed based on the CERC Order No. L-1/44/2010-CERC dated 30th November 2012 i.e same rates no inflation/ increase in costs.

Table 5-9: Transmission Charges – Part A (FY 2013-14)

Regions	Rates Rs/Mw/ Month **	Monthly Quantum (MW)	April 2013 to March 2014 (12 months) - MW	Total Charges (Rs.Crs)
Southern Region*	74,250.00	92.75	1,113	8.26
Western Region*	79,968.00	361.73	4,341	34.71
				42.98
Increase in Transmission Charges for FY 13-14 @				0%
Total Part-A Transmission Charges for FY 2013-14				42.98

*Note: * Figures of MW as per Dec 2012 RTA bill (SR + WR)*

*** Latest available rates for Oct12-Mar13 considered as per CERC Order dated 30.11.2012*

5.4.18 The Part-B transmission charges payable based on the generation of energy corresponding to the share of ED-Goa for FY 2013-14 are projected as per prevailing charges.

Table 5-10: Transmission Charges – Part B (FY 2013-14)

Stations	Rates Rs/Mw/ Month **	Monthly Quantum (MW) *	Total Charges (Rs.Crs)	Share of ED-Goa *	Share of ED-Goa (Rs.Crs)
RSTPS - SR	59520	1,948.59	11.60	4.760%	0.55
KSTPS	109968	1,948.59	21.43	10.124%	2.17
VSTPS - I	109968	1,146.60	12.61	2.932%	0.37
VSTPS - II	109968	935.00	10.28	1.357%	0.14
VSTPS -III	109968	935.00	10.28	1.159%	0.12
KGPP	79968	636.51	5.09	1.885%	0.10
GGPP	79968	637.67	5.10	1.921%	0.10
SIPAT-2	109968	935.00	10.28	1.159%	0.12
KORBA - III	109968	467.50	5.14	1.092%	0.06
KAPS	79968	404.80	3.24	3.517%	0.11
TAPS	79968	982.80	7.86	1.179%	0.09
SIPAT-1	109968	1,851.30	20.36	1.202%	0.24
RGPPL	109968	95.40	1.05	20.000%	0.21
Total - (Rs.)			135.31		4.38
Increase in Transmission Charges for FY 13-14 @					0%
Total Part-B Transmission Charges for FY 2013-14 (Rs.Crs)					52.56

** Figures of MW as per Dec 2012 RTA bill (SR + WR)*

*** Latest available rates for Oct12-Mar13 considered as per CERC Order dated 30.11.2012*



5.4.19 The other transmission charges payable to KPTCL, WRLDC, SRLDC are provided in the table below which are in line with the revised estimates for FY 2012-13. The summary of total transmission charges for FY 2013-14 is tabulated as under:

Table 5-11: Total Transmission Charges (FY 2013-14)

Particulars	Rs.Crs
Part - A Transmission Charges (Apr13-Mar 2014)	42.98
Part - B Transmission Charges (Apr13-Mar 2014)	52.56
KPTCL Wheeling Charges (FY2013-14)	1.78
Fees and charges of SLDC - WR	1.25
Fees and charges of SLDC - SR	1.25
SCADA charges	0.75
MSETCL (RGPPL)	2.50
Reactive charges	0.30
Total Transmission Charges (Apr13-Mar 2014)	103.36

5.4.20 The Hon'ble Commission is requested to approve the total transmission charges projected at Rs. **103.36** Crores for FY 2013 - 14.

5.4.21 **Summary of Power Purchase cost FY 2013-14:** The summary of total power purchase expenses for the above mentioned sources for FY 2013-14 is tabulated in the table below:

Table 5-12: Summary of Power Purchase Expenses for FY 2013 – 14

Sr. No	Particulars	Purchase	Cost
		MUs	Rs. Cr
1	NTPC	2,943.00	571.67
2	RGPPL	51.40	25.74
3	NPCIL	185.00	48.00
4	Traders	41.00	20.50
5	Co - Generation	148.46	35.63
6	IPP	-	19.83
7	Transmission Charges	-	103.36
8	Renewable Energy Source	143.49	43.21
9	Grand Total	3,512.35	867.95

5.4.22 The Hon'ble Commission is kindly requested to approve the total power purchase cost of Rs. **867.95** Crores at an average cost of Rs. **2.47** /kWh. **The details of the Power Purchase Expenses for FY 2012-13 are provided in Format 4 of Tariff Filing Formats.**

5.4.23 ED-Goa submits that above power purchase excludes revenue from sale/ diversion of surplus. The same are shown under revenue (income) head. However ED-Goa



would like to make a brief comparison of net power purchase cost if these are taken into consideration as the power does not actually come into the state periphery. The table below depicts the net power purchase cost for FY 2013-14 for reference purpose to highlight net per unit cost.

Table 5-13: Net Power Purchase Cost per unit for FY 2013-14

Particulars	MUs	Rs.crs	Rs/kWh
Total PP Cost for FY13-14	3,512	867.95	2.47
Less: Surplus power	17	6.85	4.00
PP Cost for FY13-14 after adjst of above	3,495	861.10	2.46
Less: PGCIL Losses	159	-	-
Net PP Cost for FY13-14 after PGCIL Losses	3,336	861.10	2.58
Less: Transmission Charges	-	103.36	
Net PP Cost for FY13-14	3,336	757.75	2.27

5.4.24As can be seen, the net power purchase cost for FY 2013-14 without transmission charges is Rs. **2.27** /kWh.

5.5 Operation and Maintenance (O&M) Expenses

5.5.1 Operation & Maintenance expenses comprise of the following heads of expenditure viz.

- Employee Expenses
- Administration & General Expenses
- Repairs & Maintenance Expenses

5.5.2 **Employee Expenses:** The expense head of employee cost consists of salary and allowance, bonus, Leave Travel Concession (LTC) & Honorarium etc. For the year FY 2013-14, ED-Goa has projected the employee cost by escalating the Employees Expense for previous on the basis of Wholesale Price Index. **The detail of WPI is provided in Format 24 of the Tariff Filing Formats.**

5.5.3 The Employee Expense for FY 2013-14 is arrived at by considering escalation of **8.94%** which is as per WPI data for the year FY 2011-12. The employee expense for FY 2013-14 works out to Rs. **149.40** Crores considering inflation over FY 2012-13 revised estimates. The details of employee expenses for FY 2013 – 14 are provided in **Format 16 of the Tariff Filing Formats** and Number of Employees details are provided in **Format 15 of the Tariff Filing Formats**

5.5.4 Administration and General Expenses: A&G expenses comprise of the following broad subheads of expenditure, viz.



- Domestic Travelling Expenses, Office Expenses.
- Legal, Regulatory & Consultancy Fees.
- Insurance etc.

5.5.5 The A&G expenses are projected considering inflation of 8.94% over revised estimates of FY 2012-13. The details of A&G expenses estimated for FY 2013 – 14 are provided in the table below:

Table 5-14: A&G Expenses for FY 2013 – 14

Sr. No.	Particulars	FY 2013-14 (Rs.Crs)
		Projection
1	Rent, rates & taxes	0.29
2	Domestic Travel Allowances	0.74
3	Office Expenses	4.85
4	Regulatory Expenses (License + Petition Fees)	1.63
5	Advertisement & Publicity	0.38
6	Legal, Professional & Special Service Charges	0.50
7	Other A&G Charges	0.91
8	Other material related expenses	0.05
10	Total	9.36
11	Add/Deduct share of others (to be specified)	
12	Total expenses	9.36
13	Less: Capitalized	
14	Net expenses	9.36
15	Add: Prior period	
16	Total A&G Expenses	9.36

5.5.6 It is therefore kindly requested to Hon'ble Commission to approve the net A&G expenses of Rs. **9.36** Crores for FY 2013-14. The detail for the same is provided in **Format 17 of the Tariff Filing Formats**.

5.5.7 **Repairs and Maintenance Expenses:** In line with methodology adopted in FY 2012-13, ED-Goa has projected R&M expenses as submitted to Government of Goa in Budget Estimates. ED-Goa has been undertaking various Repairs and Maintenance activities as a step towards improvement of systems, reduction in breakdowns, reduction in response time and increasing preventive maintenance. The details of the R&M expenses for FY 2013-14 are given in the table below:



Table 5-15: R&M Expenses for FY 2013-14

Sr. No.	Particulars	FY 2013-14 (Rs.Crs)
		Projection
1	Plant & Machinery	16.57
2	Builidings (Electricity Residential & Non Residential)	2.89
3	Line Cable & Network	5.25
4	Minor R&M Works	0.36
5	Total R&M expenses	25.07

5.5.8 It is therefore kindly requested to Hon'ble Commission to approve the R&M expenses of Rs. **25.07** Crores for FY 2013-14. The details of the R&M expenses for FY 2013-14 are provided in **Format 14 of the Tariff Filing Formats**.

5.5.9 O&M Expenditure as a whole: The overall summary of O&M Expenditure for FY 2013-14 is estimated to be about Rs. **166.93** Crores and is tabulated below:

Table 5-16: O&M Expenditure – FY 2013-14

Sr. No	Particulars	FY 2012-13 (Rs.Crs)	FY 2013-14 (Rs.Crs)
		Rev. Est	Projection
1	Employee Expense	137.14	149.40
2	R&M Expense	21.19	25.07
3	A&G Expense	8.59	9.36
	Total	166.93	183.83

5.6 Capital Work in Progress, GFA and Depreciation

5.6.1 The Capital Work In Progress (CWIP), Gross Fixed Asset (GFA) and Depreciation are shown in the section below.

5.6.2 ED – Goa would like to submit that it in line with the Commission's directive it has submitted a detailed Capital Investment Plan to the Hon'ble Commission on 30th January 2013 for the Hon'ble Commission's approval. However, for the ease of reference, ED – Goa hereby submits a gist on the Capital Expenditure incurred for the year FY 2013-14.



Table 5-17: Capital Expenditure & Capitalisation FY 2013-14

Sr. No	Name of Scheme	Capex FY 14 (Rs.Crs)
1	Schedule Tribe Development Scheme & Scheduled castes development scheme(P)	34.00
2	Normal Development Schemes (Plan)	5.00
3	Erection of 220/33 KV 1X50 MVA Sub- Station at Cuncolim	5.00
4	Erection of 220 KV line from Xeldem to Cuncolim	4.00
5	Strengthening of 220 KV Transmission Network	10.00
6	Augmentation of Kadamba S/S from 2x40 MVA to 4x40 MVA (Plan) including new 110 KV line	0.00
7	Erection of 220/110/33/11 KV Sub-Station at Verna (New)	15.00
8	Erection of 220 KV line from Ponda-Verna-Xeldem	5.00
9	APDRP (State Schemes)	10.00
10	Restructured Accelerated Power Development and Reforms Program	50.00
11	Infrastructure Schemes through Electricity Duty Funds	75.00
12	Underground cabling	40.00
13	Other Minor Schemes	13.11
	Total	266.11

5.6.3 ED-Goa proposes to incur an amount of Rs. **266.11** Crores towards Capital Expenditure, out of which the works proposed to be incurred from the Electricity Duty Reserve/ Fund Accounts are estimated to be Rs. **75.00** Crores. The total capitalization of the assets from the above capital expenditure is projected at Rs. **192.77** Crores for FY 2013-14. The details of the Investment Plan/ Capital Expenditure are provided in **Format 5 of the Tariff Filing Formats**.

5.6.4 **Capital Works-in-progress:** The details of the opening capital works-in-progress, investments during the year and investments capitalised for the year are summarised in the below table:



Table 5-18: Details of Capital Works-in-Progress for FY 2013-14

Sr. No	Particulars	FY 2013-14 (Rs.Crs)
		Projection
1	Opening balance	488.06
2	Add: New investments	266.11
3	Total	754.17
4	Less investment capitalized	192.77
5	Closing balance	561.40

5.6.5 The details of the Capital Works-in-progress for FY 2013-14 are provided in **Format 8 of the Tariff Filing Formats.**

5.6.6 **Gross Fixed Assets:** The Opening Balance of GFA for FY 2013-14 comes to around Rs. **958.40** Crores. The additions to GFA are estimated to be around Rs. **192.77** Crores; the details of which are provided in the table below:

Table 5-19: Details of GFA for FY 2013-14

Sr. No.	Assets group	Closing balance at the end of previous year	Addition during ensuing year	Closing balance at the end of ensuing year
		2012-13	2013-14	2013-14
1	2	6	7	8
1	Land	958.40	192.77	1,151.17
2	Building			
3	Other Civil Works			
4	Plant & Machinery			
5	Transformers centres			
6	New Sub- Stations			
7	Static Machine Tools			
8	Vehicles (incl.Self propelled)			
9	Switch gear & S/S equip.			
10	Meters			
11	Furniture and Fixtures			
12	Office Equipments			
13	Overhead lines			
14	Lightening arrestors			
15	Batteries			
16	St. light fittings			
17	Service lines			
18	Underground cables			
20	Total	958.40	192.77	1,151.17



5.6.7 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 CERC from time to time. Therefore, in line with the Regulation, ED – Goa has calculated the depreciation at Rs. **5.09** Crores. The table below shows the working of Depreciation:

Table 5-20: Depreciation for FY 2013-14

Sr. No.	Assets group	Rate of Dep	Value of assets at the beginning of previous year	Addition during ensuing year	Value of Asset disposed/ sold	Asset Value for Depreciation	Dep charges
			2013-14	2013-14	2013-14	2013-14	2013-14
1	2	3	4	5	6	7	8
1	Land	5.28%	958.40	192.77	-	1,151.17	5.09
2	Building						
3	Other Civil Works						
4	Plant & Machinery						
5	Transformers centres						
6	New Sub- Stations						
7	Static Machine Tools						
8	Vehicles (incl. Self propelled)						
9	Switch gear & S/S equip.						
10	Meters						
11	Furniture and Fixtures						
12	Office Equipments						
13	Overhead lines						
14	Lightening arrestors						
15	Batteries						
16	St. light fittings						
17	Service lines						
18	Underground cables						
20	Total		958.40	192.77	-	1,151.17	5.09

5.6.8 The Hon'ble Commission is requested to kindly approve the depreciation amount as shown in the table above for FY 2013-14. The details of the computation of Depreciation on Gross Fixed Assets for FY 2013-14 are provided in **Format 12 of the Tariff Filing Formats.**

5.7 Interest & Finance Charges

5.7.1 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 loan is only to the extent of the APDRP schemes. ED – Goa has also considered the Letter of Credit charges for claiming rebates on power purchase. The total Interest and Finance Charges for the year FY 2013-14 are Rs. **7.60** Crores. The table below shows the Interest and Finance Charges for FY 2013-14



Table 5-21: Interest & Finance Charges for FY 2013-14

Sr. No	Particulars	FY 2013-14 (Rs.Crs)
		Projections
1	Opening Normative Loan	87.72
2	Additions during the year	-
3	Less: Loan Repayment	10.23
4	Closing Normative Loan	77.50
5	Average Normative Loan	82.61
6	Interest Rates- actual	7.99%
7	Interest on Loan	6.60
8	Finance Charges	1.00
9	Interest on Loan & Finance Charges	7.60

5.7.2 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. **7.60** Crores as shown in the table for FY 2012-13. The details of Interest & Finance charges are provided in **Format 10 and Annexure to Format 10 of the Tariff Filing Formats.**

5.8 Interest on Working Capital

5.8.1 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:

- v) Power Purchase Cost.
- vi) Employees Cost.
- vii) Administration & General Expenses &
- viii) Repair & Maintenance Expenses.

5.8.2 The Interest Rate is considered equivalent to the SBI PLR for the year FY 2013-14 which is at **14.75%**.

5.8.3 In line with the aforesaid regulation, the Interest on Working Capital is calculated for the year FY 2013-14; the details of which is provided in the table below:



Table 5-22: Interest on Working Capital for FY 2013-14

Sr. No	Particulars	FY 2013-14 (Rs.Crs)
		Projections
1	Power Purchase Cost - 1 Month	72.33
2	Employee Cost - 1 Month	12.45
3	Administration & General Expenses- 1 Month	0.78
4	R&M Cost - 1 Month	2.09
5	Less: Security Deposits (in cash)	76.82
6	Total	10.83
7	Interest Rate as on 1st Apr 2012	14.75%
8	Interest on Working Capital	1.60

5.8.4 The Hon'ble Commission is requested to approve the Interest on Working Capital as presented in the table above. The details of Interest on Working Capital for FY 2012-13 are provided in **Format 19 of the Tariff Filing Formats**.

5.9 Interest on Security Deposit

5.9.1 The Regulation 25 of JERC (for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for Interest on Security Deposit, if any, made by the consumer with the licensee. The provision of interest on security deposits is to be made at the bank rate. The prevailing Bank rate is considered at **9.00%** as notified by Reserve Bank of India vide circular dated 19th April 2012 provided at **Annexure VI: RBI Bank Rate notification**

5.9.2 In lieu of the above, Interest on Security Deposit is calculated at Rs. **6.52** Crores. The table below shows details of Interest on Security Deposit for FY 2013-14:

Table 5-23: Interest on Security Deposit (Rs. Crs)

Sr. No	Particulars	FY 2013-14 (Rs.Crs)
		Projections
1	Opening Security Deposit	68.04
2	Add: Deposits during the Year	9.62
3	Less: Deposits refunded	0.84
4	Less: Deposits in form of BG/FDR	-
5	Closing Security Deposit	76.82
6	Bank Rate	9.00%
7	Interest on Security Deposit	6.52

5.9.3 The Hon'ble Commission is kindly requested to approve the interest on security deposit of Rs. **6.52** Crores for FY 2013-14. The details of Interest on Security Deposit for FY 2013-14 are provided in **Format 19-A of the Tariff Filing Formats**.



5.10 Return on Capital base/ Net Fixed Assets

5.10.1 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%.

5.10.2 The table below shows Return on Capital Base for FY 2013-14:

Table 5-24: Interest on Security Deposit

Sr. No	Particulars	FY 2013-14 (Rs.Crs)
		Projections
1	Gross block at beginning of the year	958.40
2	Less accumulated depreciation	184.01
3	Net block at beginning of the year	774.39
4	Less accumulated consumer contribution	-
5	Net fixed assets at beginning of the year	774.39
6	Reasonable return @3% of NFA	23.23

5.10.3 The Hon'ble Commission is requested to approve the Return on Capital Base of Rs. **23.23** 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**.

5.11 CGRF Expense

5.11.1 The Hon'ble Commission has issued JERC (Establishment of Forum for Redressal of Grievances of the Consumers) Regulation, 2009 and according to the Regulations, every distribution licensee needs to establish a forum for Redressal of Grievances of consumers.

5.11.2 The petitioner has estimated expenses of Rs. **1.02** Crs for FY 2013-14. This expense pertains to the salaries of the members, domestic travel expenses, office expense, advertisement etc. The Hon'ble Commission is requested to approve the CGRF expenses for FY 2013-14.

5.12 Non-Tariff Income

5.12.1 The Non-Tariff Income estimated for FY 2013-14 is Rs. **22.53** Crores which comprises of proceeds from sale of dead stock, waste paper & other miscellaneous receipts. The details of non tariff income for FY 2013-14 are provided in **Format 21 of the Tariff Filing Formats**.



5.13 Revenue from Sale of Surplus Power

5.13.1 ED – Goa has considered Revenue from Sale of Surplus Power wither through grid/exchanges. As shown in **Table 5-4: Energy Balance for FY 2013-14**, the surplus power during off peak is **17 MUs** and the average rate for sale of surplus power is assumed at **Rs. 4.00/unit**.

5.13.2 The total revenue from sale of such surplus power is estimated at Rs. **6.85 Crores**.

5.14 Revenue from Existing Tariff

5.14.1 The revenue from sale of power from existing retail tariffs for FY 2013-14 comes to Rs. **944.93 Crores** and category wise revenue is tabulated below:

Table 5-25: Revenue from Existing Tariff FY 2013-14

Sr. No	Consumer Category	Energy Sale	Revenue	Avg. Revenue
		MUs	Rs. Crs	Rs./unit
1	2	3	4	5
A	Low Tension Supply	1,229	285.17	2.32
1(a)	Tariff LTD/Domestic and Non-Commercial	834	149.60	1.79
1(b)	Tariff LTD/Low Income Group	9	0.43	0.46
1(c)	Tariff LTD/Domestic Mixed	4	1.19	2.88
2	Tariff-LTC/Commercial	265	93.87	3.54
3 (a)	Tariff-LTP/Motive Power	74	30.16	4.06
3 (b)	Tariff-LTP/ Ice Manufacturing	-	-	-
3(c)	Tariff-LTP/Mixed (Hotel Industries)	5	2.05	4.00
4	Tariff-LTAG/Agriculture	18	2.27	1.24
5	Tariff-LTPL/Public Lighting	16	5.01	3.17
6	Tariff-LT PWW/Public Water Works	2	0.59	2.56
B	High Tension Supply	1,625	648.70	3.99
7	Tariff HT-Mixed	208	80.86	3.89
8(a)	Tariff HTI/Industrial	548	224.38	4.09
8(b)	Tariff HTI/Hotel Industries	51	22.25	4.40
8(c)	Tariff HTI/Ice Manufacturing	0	0.09	3.00
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)	543	196.69	3.62
10	Tariff-HTAG/Agriculture	8	1.21	1.58
11	EHTI/Industrial	110	48.93	4.45
12	H.T. PW/Public Water Supply and Sewage	110	38.70	3.52
13	H.T. MES/Defence Establishments	34	12.34	3.59
14	H.T. Industrial (Steel Rolling)	56	20.74	3.69
15	Tariff HT-Industries (IT High Tech).	7	2.51	3.55
C	Temporary Supply	15	11.06	7.50
16	Tariff-LT/Temporary	14	10.42	7.50
17	Tariff-HT/Temporary	1	0.63	7.50
	Total Demand/ Sale Within State	2,868	944.93	3.29



5.15 Summary of Annual Revenue Requirement

5.15.1 The net annual revenue requirement of ED-Goa for FY 2013-14 is provided in the table below:

Table 5-26: ARR for FY 2013-14

Sr. No	Particulars	FY 2013-14 Rs.Crs
		Projections
1	Cost of power purchase	867.95
2	Employee costs	149.40
3	R&M expenses	25.07
4	Administration and general expenses	9.36
5	Depreciation	5.09
6	Interest on Loan & Finance charges	7.60
7	Interest on Working Capital	1.60
8	Interest on Security Deposit	6.52
9	Return on NFA /Equity	23.23
10	Provision for Bad Debt	-
11	CGRF Expenses	1.02
12	Total Revenue Requirement	1,096.84
13	Less: Non Tariff Income	22.53
14	Less: Revenue from Sale of Power - UI Pool	-
15	Less: Revenue from Sale of Power-Exchanges	6.85
16	Net Revenue Requirement (12-13-14-15)	1,067.46
17	Revenue from Retail Sales at Existing Tariff	944.93
18	Revenue from FPA Charges	-
19	Net Gap (16-17-18)	122.53
20	Energy sales (MU)	2,919
21	Average Cost of Supply (Rs/kWh)	3.66

5.15.2 The net ARR requirement by ED-Goa for FY 2013-14 is of Rs. **1,067.46** Crores and the summary of the revenue gap for FY 2013-14 is provided in the table below:

Table 5-27: Revenue Gap for FY 2013-14

		Rs Crore
Sr. No.	Item of expense	Projection FY 2013-14
1	Net ARR for FY 2013-14	1,067.46
2	Less: Revenue at Existing Tariff	944.93
3	Gap at Existing Tariff	122.53
4	Add: Gap of FY 2012-13	-
5	Total Revenue Gap to be met	122.53
6	Less: Revenue from Revised Tariffs	-
7	Less: Budgetary Support	122.53
8	Balance Revenue Gap	-



5.15.3 The Hon'ble Commission is requested to approve the net ARR, revenue at existing tariffs for FY 2013-14 and the revenue gap which is proposed to be met through budgetary support.



CHAPTER 6. PROPOSAL TO MEET ARR FOR FY 2013-14

6.1 Revenue Gap for FY 2012-13

6.1.1 As can be discussed in earlier section, the net annual revenue requirement for FY 2012-13 is ₹ **1,173.97** Crores which is partially met through revenue at existing tariffs (including revised tariffs wef 1st June 2012) at Rs. **961.07** Crores. The revenue gap at prevailing tariffs works out to ₹ **212.89** Crores for FY 2012-13.

6.1.2 ED-Goa submits that Government of Goa had committed at the time of ARR for FY 2012-13 to provide budgetary support for balance gap after proposed tariff increase. However the final revenue gap computed by Hon'ble Commission to be provided by Government of Goa as budgetary support was Rs.42.26 Crores (Para 8.6 and Table 81 of T.O. dt 27.6.2012).

6.1.3 ED-Goa submits that the entire revised gap computed at Rs. **212.89** Crores in the APR process for FY 2012-13 shall be met by Government of Goa as budgetary support. The letter supporting the same is provided at **Annexure XIV: Budgetary Support – Government of Goa**

6.2 Revenue Gap for FY 2013-14

6.2.1 The net annual revenue requirement for FY 2013-14 is Rs. **1,067.46** Crores and the revenue at existing tariff works out to Rs. **944.93** Crores. Accordingly the revenue gap for FY 2013-14 computes to Rs. **122.53** Crores which is 11.50% of net ARR. ED-Goa submits that this revenue gap shall be met through the budgetary support to be provided by Government of Goa. The letter supporting the same is provided at **Annexure XIV: Budgetary Support – Government of Goa**

6.3 Tariff Proposal

6.3.1 ED-Goa respectfully submits that since there is no revenue gap to be carried forward for FY 2012-13 or FY 2013-14 and as per directions of Government of Goa the retail tariffs are proposed to be maintained at existing level approved by the Hon'ble Commission vide its Tariff Order dated 27th June 2012.

6.3.2 Further ED-Goa request Hon'ble Commission to ensure fixed cost obligation / payments towards fixed charges of power purchase, transmission charges, O&M expenses, depreciation (for loan repayment), interest on loan etc are recovered through demand / fixed charges from consumers.



CHAPTER 7. PROPOSED TARIFF SCHEDULE FOR FY 2013-14

7.1 General Conditions and Definitions

- 1) These tariffs are proposed to be made applicable from 1st April 2013 and shall be subject to revision by the Regulatory Commission from time to time.
- 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) Late payment surcharge of 2% per month or part thereof shall be levied on all delayed payments of bills. 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.
- 4) **Power Factor:** The monthly average power factor shall not in any case fall below 0.90 lagging for all High tension and Extra High Tension installations. In case the power factor is found to be lower than 0.90 lagging, Power Factor Surcharge at the rate of 0.5% for every 0.01 fall of the power factor below 0.90 lagging shall be levied on the energy charges billed in the month. In case the monthly average power factor is less than 0.7 lagging, the installation is liable to be disconnected.

All High tension and Extra High Tension installations where the monthly average power factor is maintained above 0.95 lagging shall be eligible for an incentive in the form of rebate at the rate of 1% for every 0.01 improvement in power factor above 0.95 lagging in the energy charges billed in the month.

The Power factor value will be rounded off to two decimal places. For example 0.944 shall be treated as 0.94 and .946 shall be treated as 0.95. **This clause shall be applicable to 7, 8(a), 8(b), 8(c), 9, 10, 11, 12, 13, 14 & 15.**

- 5) **“Seasonal Consumers”** mean all consumers who work only during a part of the year up to a maximum of nine months such as cotton, corning, agriculture and pressing factories. It shall also include Ice Factories, Oil Mills, Sugar Factories etc which may work throughout the year but intermittently and any other consumers which may be classified by the Department from time to time and approved by the Commission as seasonal consumers.



- 6) 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.
- 7) For staff quarters, rest/guest houses, street lighting in the colony of a factory which is situated separately from the main factory and when distribution lines, service lines, etc. are permitted to be owned and maintained by the HT consumer owning the factory, there shall be a separate connection and all energy consumed shall be charged under "Tariff LTD/Domestic Mixed".
- 8) LT Connection is applicable with Sanctioned Load of less than 100 KVA or 90 KW or 120 HP as the case may be and HT Connection is applicable with Contract Demand of 100kVA and above.
- 9) 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 Provisions of Electricity Act 2003 and various JERC Regulations issued from time to time such as Standards of performance, Supply Code, Distribution Code etc.
- 10) The adjustment on account of Fuel and Power Purchase Cost variation shall be calculated in accordance with the FPPCA formula to be separately notified by the Commission. Such charges shall be recovered/ paid in accordance with the terms and conditions specified in the FPPCA formula.

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 will 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.

**Explanation:**

Assuming the contract demand as 100 kVA, maximum demand at 120 kVA and total energy consumption as 12000 units, then the consumption corresponding to the contract demand will be 10,000 units ($12000 \times 100 / 120$) and consumption corresponding to the excess demand will be 2000 units. This excess demand of 20 kVA and excess consumption of 2000 units will be billed at twice the respective normal rate. E.g. in case of HTI/Industrial category, excess demand and consumption will be billed at the rate of Rs 350 per kVA per month and Rs 6.60/kWh respectively.

7.2 Tariff Schedule – LT Consumers**7.2.1 Tariff LTD/Domestic and Non – Commercial****I. Applicability:**

- This schedule shall apply to private house, bungalows, charitable or educational institutions approved by Goa Board/ Central Board, colleges approved by Goa University and religious institutions etc. for consumption of energy on 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.

II. Tariff

Consumption Slab	Fixed Charges (Rs/Connection/month)	Energy Charges (Ps/Unit)
	Existing Charges	Existing Charges
(a) First 60 Unit	5	120
(b) 61 to 250 units	10	160
(c) 251 to 500 units	20	260
(d) Above 500 units	30	300

7.2.2 Tariff LTD/Low Income Group**I. Applicability:**

- This schedule shall apply to consumers of low Income Group with a Sanctioned Load 2 x 40 watts only.

**II. Tariff:**

Description	Rs. per month
	Existing Charges
Upto 2 point	25

Note: For any unauthorised increase in load beyond 2 x 40 watts, penal charges at the rate of Rs. 25/- per month, per point, shall be levied and the installation shall be liable for disconnection.

7.2.3 Tariff LTD/Domestic Mixed**I. Applicability**

This schedule shall apply to Houses with the rent back facilities, clubs, hospitals, staff quarters, rest/guest houses, street lighting in the colony of a factory which is situated separately from the main factory and when distribution lines, service lines etc. are permitted to be owned and maintained by HT consumers with Sanctioned Load less than 100 KVA or 90 KW or 120 HP as the case may be.

II. Tariff

Consumption	Fixed Charges	Energy Charges
	Rs./connection/ month	(paise/kWh)
First 400 Units	20	270
Above 400 Units	30	370

7.2.4 Tariff – LTC/Commercial**I. Applicability**

- 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 centres, ice parlours, 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.

**II. Tariff**

Tariff KWH/month	Fixed Charges	Energy Charges
	Rs./connection/ month	(paise/kWh)
First 100 units	20	300
101 units- 1000 units	30	380
Above 1000 units	50	410

7.2.5 Tariff – LTP/Motive Power**I. Applicability**

- This schedule shall apply to consumers such as industrial units, workshops, flour mills, wet grinding, rice mills, milk dairies, ice cream manufacturing units, dairy testing process, garment manufacturing, tyre retreading units, ice manufacturing plants, bakery, motive power load, industrial units engaged in manufacturing process or project activities with Sanctioned Load less than 100 KVA or 90 KW or 120 HP as the case may be.

II. Tariff:

Tariff KWH/month	Fixed Charges	Energy Charges
	Rs./connection/ month	(paise/kWh)
Upto 50 HP	20	250
Above 50 HP	20	300

7.2.6 Tariff – LTP/Ice Manufacturing**I. Applicability**

- This schedule shall apply to industrial units engaged in ice manufacturing where the total sanctioned load of the installation is less than 100 kVA or 90 kW or 120 HP as the case may be.

II. Tariff

Fixed Charges	Energy Charges
Rs./HP/month	(paise/kWh)
20	300



7.2.7 Tariff – LTP/Mixed (Hotel Industries)

I. Applicability

- This schedule shall apply to Hotels, restaurants, lodging and boarding where the total Sanctioned Load is less than 100 KVA or 90 KW or 120 HP as the case may be.

II. Tariff

Fixed Charges	Energy Charges
Rs./kW/month	(paise/kWh)
25	400

Note: Consumer intend 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.

7.2.8 Tariff – LTAG/Agriculture

I. Applicability

- This schedule shall apply to irrigation pumping and agricultural purposes, poultry, piggery, pisciculture etc for consumption of energy on pump motors, lights, fans, heating and other appliances with sanctioned load less than 100 KVA or 90 KW or 120 HP as the case may be .

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./HP/ month	(paise/kWh)
5	120

Note: This tariff shall be applicable from the date of production of a certificate from the Directorate of Animal Husbandry or Fisheries Department of Government of Goa to the effect that the consumer carried on the said activity on regular basis.



7.2.9 Tariff – LTPL/Public Lighting

I. Applicability

- This schedule shall apply to public lighting systems including signal systems, road and parking lighting belonging to local authorities such as Municipality/ Panchayat etc. with sanctioned load less than 100 kVA or 90 kW or 120 HP as the case may be. This shall also be applicable to public lighting of Government/ Semi-Government Establishments but shall not be applicable in case of private establishment.

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kW/ month	(paise/kWh)
25	300

7.2.10 Tariff – LT PWW/Public Water Works

I. Applicability

- This schedule shall apply to public water supply and sewage pumping stations and treatment plants where Sanctioned Load is less than 100 KVA or 90 KW or 120 HP as the case may be.

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./HP/ month	(paise/kWh)
20	250

7.3 Tariff Schedule – HT Consumers

7.3.1 Tariff – HT Mixed

I. Applicability

- This schedule shall apply to bulk supply of power at 11 KV and above for a Contract Demand 100kVA and above such as railway, educational institutions, non-industrial establishment etc. having mixed load with predominantly lighting or non-industrial load of more than 50% of connected load.

**II. Tariff**

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kVA/ month	(paise/kWh)
175	315

7.3.2 Tariff – HTI / Industrial**I. Applicability**

- This schedule shall apply to supply of power at 11 KV and above for a Contract Demand of 100 KVA and above for industries, factories and other industrial purpose as may be decided by the Chief Electrical Engineer.

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kVA/ month	(paise/kWh)
175	330

7.3.3 Tariff – HTI/ Hotel Industries**I. Applicability**

- This schedule shall apply to Hotels, restaurants, lodging and boarding where the total Contract Demand of such installation is 100 kVA & above.

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kVA/ month	(paise/kWh)
175	330

7.3.4 Tariff – HTI / Ice Manufacturing**I. Applicability**

- This schedule shall apply to industrial units engaged in ice manufacturing where supply of power is made at 11 kV and above for a Contract Demand of 100 kVA and above.

**II. Tariff**

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kVA/ month	(paise/kWh)
175	300

7.3.5 Tariff – HT Industrial (Ferro Metallurgical/Steel Melting/Power Intensive)**I. Applicability**

- This schedule shall apply to supply of power having a Contract Demand from 100 kVA upto 1000 kVA at 11 KV and above 1000 kVA at 33 kV for Metal Alloy, Steel Melting, Ferro Alloy and Ferro metallurgical industries all types of Ferro alloy units where melting is involved using electric power.

II. Tariff

Particulars	Existing Tariff	
	Fixed Charges	Energy Charges
	Rs./kVA/ month	(paise/kWh)
First 300 units per kVA	450	250
Next 200 units per kVA		275
Above 500 units per kVA		300

7.3.6 Tariff HT – AG / Agriculture**I. Applicability**

- This schedule shall apply to supply of power at 11 KV and above to agricultural consumer, lift irrigation schemes, agricultural farms etc with Contract Demand of 100 KVA and above.

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kVA/ month	(paise/kWh)
25	125



7.3.7 Tariff EHTI /Industrial

I. Applicability

- This schedule shall apply to bulk supply of power at 110 KV and above for industries, factories and other industrial purpose as may be decided by the Chief Electrical Engineer.

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kVA/ month	(paise/kWh)
175	330

7.3.8 HT PW/Public Water Supply and Sewage

I. Applicability

- 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.

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kVA/ month	(paise/kWh)
175	300

7.3.9 HT MES / Defence Establishments

I. Applicability

- This schedule shall apply to supply of power at 11 KV and above for a Contract Demand of 100 KVA and above for defence installation establishments, having mixed load with predominantly lighting or non industrial load of more than 50% of connected load.

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kVA/ month	(paise/kWh)
125	330



7.3.10 HT Industrial (Steel Rolling)

I. Applicability

- This schedule shall apply to supply of power at 11 KV and 33 KV, having a Contract Demand of 100 KVA and above for Steel Rolling Industries.

II. Tariff

Particulars	Existing Tariff	
	Fixed Charges	Energy Charges
	Rs./kVA/ month	(paise/kWh)
First 200 units per kVA	400	180
Next 100 units per kVA		225
Above 300 units per kVA		300

7.3.11 Tariff HT – Industries (IT High Tech)

I. Applicability

- 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

II. Tariff

Existing Tariff	
Fixed Charges	Energy Charges
Rs./kVA/ month	(paise/kWh)
175	260

7.4 Tariff – Temporary Supply

7.4.1 LT Temporary

I. Applicability

- This schedule shall apply to lights, fans and small appliances for all purposes at low voltage for sanctioned load less than 100 kVA or 90 kW or 120 HP as the case may be.



II. Tariff

Existing Tariff	
Energy Charges (paise/kWh)	Minimum Charges (Rs./kW/day)
750	Rs 50 per kW per day or part thereof subject to a minimum of Rs 300/- 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 at low voltage for Sanctioned Load less than 100 kVA or 90 KW or 120 HP for a period not exceeding three month which may be extended beyond that period only with the prior permission of the Electricity Department, upto a maximum period of six months
- (iii) Security deposit shall be collected for an assessed 3 months billing.

7.4.2 HT Temporary

I. Applicability

- This schedule shall apply to lights, fans and small appliances for all purposes at high voltage for Contract Demand of 100 kVA and above.

II. Tariff

Existing Tariff	
Energy Charges (paise/kWh)	Minimum Charges (Rs./kVA/day)
750	Rs 100 per kVA per day or part thereof

Note: -

- (i) The above temporary connection shall be released through a proper meter
- The above temporary tariffs are applicable for temporary supply at high voltage for a period not exceeding six months which may be extended with prior permission of the Electricity Department, upto a maximum period of one year Security deposit shall be collected for an assessed 3 months billing.

7.5 Schedule of Miscellaneous Charges

- 7.5.1 ED-Goa submits that it had filed petition seeking review of ARR and Tariff Order dated 27th June 2012 for approving the Schedule of General and Miscellaneous Charges for the consumers of the State of Goa.



7.5.2 It is submitted that recently, Hon'ble Commission has admitted the said petition with case no. 95/2013 on 18th January 2013. It is submitted that matter is being heard and hence no schedule of miscellaneous charges are proposed in this petition. ED-Goa submits that Hon'ble Commission may approve the same considering the charges prevailing in other UTs/ neighbouring states and further provide opportunity to provide additional data/ information as may be required to approve the same.



CHAPTER 8. COMPLIANCE TO DIRECTIVES GIVEN BY JERC

The Hon'ble Commission in its Tariff Order for FY 2012-13 had laid down new 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 in a single submission/response as below:

8.1 Annual Statements of Accounts

8.1.1 The Hon'ble Commission in its order directed ED – Goa to prepare Annual Statement of Accounts separately and on commercial principles. ED – Goa would like to submit that the accounts for the electricity business are always maintained separately. This is in line with Government of Goa Notification (Pro-forma Accounts), hence commercial principles are already being implemented. Further, ED – Goa would like to submit that the Annual Accounts for FY 2006-07 has been audited and certified. With this certification the audit of accounts for the year FY 2007-08 are already in process and shall be completed at the earliest. ED – Goa assures the Hon'ble Commission that it would complete this exercise of bringing the audited accounts updated on priority basis and inform the Hon'ble Commission from time to time.

8.2 Preparation of Asset and Register

8.2.1 The Hon'ble Commission has directed ED – Goa to prepare Asset and Depreciation Register function wise and asset classification wise. ED – Goa hereby submits that there are two functions carried out by ED – Goa viz Transmission and Distribution functions. ED – Goa has already taken steps for preparing the Asset register for both Transmission and Distribution. The classification of Assets is being done similar to the classification heads provided by the Hon'ble Commission in the Tariff Regulations. Further, ED – Goa has sent the formats to various divisions (field offices); which are annexed to this petition at **Annexure VIII: Format for Asset & Depreciation Information** for reference of the Hon'ble Commission. Further, the depreciation register is also being prepared in line with the Hon'ble Commission's directive. ED – Goa also submits that once the compilation of classification of assets and depreciation register information is received from the field officers, Hon'ble Commission shall be intimated. The required information shall be submitted to Hon'ble Commission after due verification by Accounts Department preferably within a period of 6-8 months.

8.3 Energy Audit and T&D Losses

8.3.1 ED – Goa would like to submit that a Consultant has been appointed in this regards and the process is being carried out. In line with the Hon'ble Commission's directive, ED – Goa shall carry out the Energy Audit for the first 6 months period of FY 2012-13



and submit to Hon'ble Commission. Thereafter upon receipt of comments/suggestions from the Hon'ble Commission, the 2nd Energy Audit for next 6 months period or as may be directed by Hon'ble Commission shall be conducted through consultants.

8.4 Metering of Consumer Installations / Replacements of non – functional or defective Meters

8.4.1 ED – Goa submits that all the connections (Consumer Installations) are metered and the connections are being released to metered consumers only. As regards replacement of non functional or defective meters, electronic meters have been procured and made available to the Divisions, and directives issued for prompt replacement of non-functioning /defective meters.

8.5 Demand Side Management and Energy Conservation

8.5.1 ED – Goa would like to submit that it has undertaken various measures to reduce the losses. Following measures have been carried out by ED – Goa:

1. Replacement of conventional energy meters provided to consumers by State of Art Electronic Meters which has resulted in about 15% loss reduction on the consumption of these consumers;
2. Use of Energy Efficient Star Rated transformers and other equipments;
3. Implementation of various energy efficient schemes through Bureau of Energy Efficiency (BEE):
 - a. Bachat Lamps Yojana; wherein a provision of providing 15 lakhs of CFL to households and other states has been made. The work has already been awarded in consultation with BEE;
 - b. LED demonstration scheme on National Highway-17 being implemented in consultation with BEE;
 - c. Replacement of 250 Watts HPSV fixtures by Energy Efficient T-5 fixtures;
 - d. Conducting investment grade energy audit of 11 Government buildings in the State;

8.6 Employee Cost / Manpower Study.

8.6.1 The Hon'ble Commission in its Tariff order has directed ED – Goa to analyze its employee strength and their relative deployment, and rationalize their requirement to reduce its manpower and related costs. ED – Goa would like to submit that a Consultant has been appointed in this regards and the study is under process. ED – Goa would like to submit that this study shall be submitted to the Hon'ble Commission in 3 months time i.e. around end of April 2013.



8.7 Interest on Security Deposit

8.7.1 The Hon'ble Commission has directed ED – Goa to pay the interest on security deposit due for FY 2011-12. ED – Goa would like to submit that at present the consumer deposits are accounted in the Public Account under the Budget Head of Accounts in the Finance Department of Government of Goa. Hence, any disbursement of funds is subjected to the approval by the Finance Department, Government of Goa; and the release of funds to the department is a time consuming process. However, ED –Goa has proposed a scheme for streamlining the payment of interest on consumer deposit and the same has been submitted for approval of Government. The proposed scheme is annexed to this petition at **Annexure IX: Proposal for payment of Interest on Consumer Security Deposit.**

8.7.2 Upon receipt of approval from Finance Department, ED-Goa shall make all efforts to pay interest on security deposit to HT Consumers first and thereafter pay interest to LT consumers (starting from industry and commercial consumers). ED-Goa believes that HT Consumers and LT Industry & Commercial consumers would be less in number and security deposit would be higher of these consumers; hence it would be easier to make payment to them first. Security deposit of most HT/bulk consumers is in the form of Bank Guarantee in which cases interest would not be possible/ may not be required.

8.8 Bill Payment

8.8.1 As per the Hon'ble Commission's directive; ED – Goa is to introduce multiple payment gateways/ agencies for online collection and an action plan is to be submitted to the Hon'ble Commission. ED – Goa would like to submit that such online collection of bill payment shall be carried out under the ambit of R-APDRP (Part-A) Scheme, which ED – Goa is in the process of doing through IT implementing Agency. However, ED – Goa has around 323 bill payment centres in different banks across various locations. Further, post the issuance of Tariff Order by Hon'ble Commission in June 2012; additional 8 banks were added to the list of Bill Payment Centres totalling to around 331. Many of the banks work outside normal office hours. The list of the Bill Payment Centres is annexed to the petition at **Annexure X: Bill Payment Centres.** In major towns of Panaji & Margao there are bank counters in the Department's Office. More such counters are being opened elsewhere. Cheque drop box facility has been introduced in some places and will be extended

8.9 Capital Expenditure

The Hon'ble Commission in its Tariff Order directed ED – Goa to furnish the capital expenditure plan of the utility prior to filling the petition for the respective year. ED –



Goa would like to submit that the same has already been submitted on 30th January 2013.

8.10 Data on the consumption and load profile of Advertisement Hoardings, Sign boards, Sign-ages etc.

ED – Goa would like to submit that the compilation of data regarding consumption and the load profile of Advertisement Hoardings, Sign boards etc is in progress and the same shall be submitted to the Hon'ble Commission at the earliest.

8.11 Assessment of the Open Access Consumers

The details of Open Access Consumers (1 MW and above) and detailed scheme on operationalization of Open Access are being submitted separately under Case No. 78/2012.

8.12 Short Term Power Procurement of power by Licensee

ED – Goa would like to submit that it will abide by MoP guidelines and the Hon'ble Commission's directive for Short Term Power Procurement through tariff based biddings and shall maintain to do so.

8.13 Standard of Performance

ED – Goa would like to submit that it has submitted it has been regularly complying to this directive and the reports for 1st quarter and 2nd quarter have been submitted to Commission.



Annexure I: Power Allocation Statements



भारत सरकार
Government of India
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
पश्चिम क्षेत्रीय विद्युत समिति
Western Regional Power Committee



आई एस/आई एस ओ ९
९००१-२००८
IS/ISO: 9001-2008

एक -३, एमआयडोसी क्षेत्र, अंधेरी (पूर्व), मुंबई - ४०० ०९३
F-3, MIDC Area, Andheri (East), Mumbai - 400 093

दूरभाष Phone: 022 2822 1636, 2835 3222, 2820 0194, 95, 96
Website: www.wrpc.gov.in

फैक्स Fax: 022-2837 0193
E-mail: ms-wrpc@nic.in

No.WRPC/Comm-I/8/Alloc/2012/ 7 5 7 6 Date: 30th July 2012

General Manager
POSOCO WRLDC
F-3, MIDC Area, Andheri (E)
Mumbai - 400 093

Subject: Allocation of power from SIPAT STPS Stage -I

MoF vide letter No. 5/38/2006-Th.2 dated 12 November 2007 (copy enclosed) had informed the allocation of power from SIPAT STPS Stage -I (3X660) of NTPC as under, which has already been communicated vide No.WRPC/Comm-I/8/Alloc/2011/ 1445 dated 30th August 2011:

Name of State/Union Territory	Total allocation in MW
Gujarat	540
Machya Pradesh	283
Chhattisgarh	313(including 198 MW home state share of 10%)
Maharashtra	510
Goa	20
Daman & Diu	8
Dadra & Nagar Haveli	9
Unallocated	297
Total	1980

NTPC vide letter 01/CD: 227 dated 30.07.2012 has intimated that Sipat stage 1, unit #3(660) MW is expected to be declared for commercial operation w. e. 1 00.00 hrs of 01.08.2012. The revised allocation for shares and the percentage allocation to WR beneficiaries are also enclosed herewith.

Encl: As above.


(ओ पी सिंह / O. P. Singh)
अधीक्षण अभियंता (वाणिज्य) /
Superintending Engineer (Comm)



**WESTERN REGIONAL POWER COMMITTEE
CALCULATIONS FOR ALLOCATION OF SHARES with effect from COD of UNVNS SIPAT
FOR PEAK HOURS (FROM 1800 TO 2200 HOURS)**

	KRIPS	VSTPS-I	VSTPS-II	VSTPS-III	KGPP	GGPP	SIPAT-II	KAPP	TAPP 3&4	KRIPS-V	SIPAT-I	TOTAL
Installed Capacity (MW)	2100.00	1250.00	1000.00	1000.00	650.00	657.39	1000.00	440.00	1000.00	200.00	1000.00	11673.50
Firm allocation	1739.00	1070.00	850.00	850.00	500.00	555.03	850.00	374.00	518.00	125.00	1000.00	9280.00
Un-allocated share	360.00	180.00	150.00	150.00	150.00	92.36	150.00	66.00	482.00	75.00	200.00	2393.50

Allocation of handling with solar Power under JNNSM

Maharashtra (NWN coal power)	2.56	1.50	1.25	1.25			1.25			0.62	2.52	11.00
Balance unallocated share	357.44	178.50	148.75	148.75	90.00	92.36	148.75	66.00	162.00	74.38	197.53	1766.50

Specific allocation out of Unallocated share

Allocation to DD	40.00				38.99	20.31		4.00				102.50
Allocation to DNH	50.00				66.99	66.49						122.48
Allocation to Powergrid (HVDC-BHD)		2.52										2.52
Allocation to Powergrid (HVDC-VN)		0.76										0.76
Allocation to MPAKVNL, Indore	2.23	1.39	1.50		0.85	0.93						7.00
Allocation to Goa					12.31	12.83						25.00
Machya Patalash	62.83	32.16	25.47	25.47			26.47	11.21	27.50			200.60
Heavy Water Plant of DAE								14.00				14.00
Balance unallocated share	202.06	167.19	121.76	123.28	0.00	0.00	120.28	38.19	131.50	74.38	194.53	1481.60

FIRM ALLOCATION IN MW

Gujarat	360.00	203.10	239.00	266.00	167.99	237.00	273.00	125.00	274.00	95.00	540.00	2327.00
Machya Pradesh	403.00	302.50	293.00	200.00	149.20	117.00	143.00	93.00	180.00	67.50	283.30	2276.50
Chhattisgarh	210.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.00	150.00	313.00	381.00
Maharashtra	840.00	471.00	389.00	258.00	214.50	200.00	258.00	139.00	388.00	106.20	519.00	3407.20
GOA	210.00	35.50	12.00	10.00	0.00	0.00	10.00	15.83	11.00	4.50	20.00	327.50
DD	0.00	5.00	3.00	5.00	2.00	2.00	4.00	2.00	5.00	1.00	10.00	29.00
DNH	0.00	5.00	4.00	6.00	21.00	2.00	4.00	2.00	7.00	2.00	0.00	65.00
TOTAL	1793.00	1070.00	850.00	850.00	668.00	558.00	850.00	574.00	913.00	425.00	1000.00	9026.00

ALLOCATION OF 15% UNALLOCATED SHARE IN MW

Gujarat	0.00 %	3.60	0.00	6.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00
Machya Pradesh	17.22 %	52.56	24.40	18.75	21.55	0.00	0.00	21.23	8.34	23.76	12.31	60.72
Chhattisgarh	0.00 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maharashtra	44.84 %	83.06	46.54	33.27	5.33	0.00	0.00	53.23	18.25	50.27	79.78	195.60
GOA	0.37 %	0.78	0.56	0.45	0.40	0.00	0.00	0.48	0.14	0.50	0.20	1.00
DD	2.86 %	5.13	3.84	3.09	3.13	0.00	0.00	3.13	0.93	3.42	1.89	7.48
DD - Specific Allocation		40.00	0.00	0.00	0.00	28.99	29.31	0.00	4.00	0.00	0.00	102.30
DNH	36.80 %	72.34	47.89	43.28	45.14	0.00	0.00	44.14	13.17	49.78	28.83	105.64
DNH - Specific Allocation		10.00	0.00	0.00	0.00	54.99	56.49	0.00	0.00	0.00	0.00	172.45
DD - Specific Allocation		0.00	0.00	0.00	0.00	19.37	19.33	0.00	0.00	0.00	0.00	28.99
Machya Pradesh		62.63	32.25	26.47	25.47	0.00	0.00	26.47	11.21	27.50	0.00	200.00
Allocation to Powergrid (HVDC-BHD)			2.52									2.52
Allocation to Powergrid (HVDC-VN)			0.76									0.76
Allocation to MPAKVNL, Indore (Sp. Allo)		2.23	1.50	1.50		0.85	0.93					7.00
Allocation to MPAKVNL, Indore		2.23	1.50	1.23								5.00
Heavy Water Plant of DAE								14.00				14.00
Total		307.42	188.42	148.76	148.76	90.20	92.29	148.75	96.00	162.00	74.38	1736.50

Total Allocation (Firm + Specific Allocation + allocation from 15% unallocated share) in MW

Gujarat	360.00	206.70	245.00	272.00	167.99	237.00	273.00	125.00	277.60	95.00	540.00	2327.00
Machya Pradesh	405.23	441.71	313.21	248.70	149.20	117.00	143.00	119.54	188.34	75.31	283.72	2688.75
Chhattisgarh	210.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.00	150.00	313.00	381.00
Maharashtra	690.05	476.54	372.67	263.27	214.50	200.00	258.00	153.23	407.27	110.70	639.00	3963.10
GOA	210.78	39.36	12.45	10.40	12.32	12.63	10.40	16.34	11.50	4.70	21.00	357.17
DD	49.13	8.34	6.03	8.13	30.98	31.31	2.13	6.53	0.42	3.49	15.46	171.00
DNH	37.36	59.06	47.63	50.14	39.95	38.40	46.14	13.17	65.16	28.83	114.41	542.23
Allocation to Powergrid (HVDC-BHD)			2.52									2.52
Allocation to Powergrid (HVDC-VN)			0.76									0.76
Allocation to MPAKVNL, Indore		4.96	3.43	2.73		0.85	0.93					12.88
Heavy Water Plant of DAE								14.00				14.00
Maharashtra (NWN coal power)		2.56	1.50	1.25	1.25			1.25			0.62	7.00
TOTAL		1119.00	1250.00	1020.00	1020.00	668.20	567.31	1000.00	440.00	1050.38	500.00	11673.50

Share in %

Constraints	KRIPS	VSTPS-I	VSTPS-II	VSTPS-III	KGPP	GGPP	SIPAT	KAPP	TAPP 3&4	KRIPS-V	SIPAT-I	TOTAL
Gujarat	17.1429	16.3440	23.8000	26.6200	25.1974	36.9517	27.3000	28.4091	26.3704	19.2000	27.2727	23.2727
Machya Pradesh	23.1049	25.6187	31.8121	24.6700	21.3350	17.7577	19.3000	22.1251	21.3520	15.8616	18.6548	18.6548
Chhattisgarh	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.4444	30.0000	15.0000	15.0000
Maharashtra	35.2888	37.6208	37.2000	26.2331	31.8881	30.4288	31.2631	34.8117	41.8771	26.1656	32.5191	32.5191
GOA	10.0355	3.1222	1.2451	1.0458	1.8881	1.9212	1.0457	3.4462	1.0640	0.9536	1.0000	1.0000
DD	2.1462	0.7612	0.6000	0.8131	4.7226	4.7626	0.7131	1.5767	0.7703	0.6879	0.7000	0.7000
DNH	3.0207	4.6963	4.7698	5.0430	12.1423	8.0927	4.3135	3.4483	6.1004	5.7636	3.4300	3.4300
Allocation to Powergrid (HVDC-BHD)		0.2000										0.2000
Allocation to Powergrid (HVDC-VN)		0.0000										0.0000
Allocation to MPAKVNL, Indore		0.2300	0.2700		0.1200	0.1600						0.1600
Heavy Water Plant of DAE								14.0000				14.0000
Maharashtra (NWN coal power)		0.1229	0.1224	0.1250	0.1250	0.0000	0.0000	0.1229	0.0000	0.1240	0.1240	0.1240
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

Note: (i) Allocation from unallocated quota of coal based stations of NTPC for unbundling solar power under JNNSM (Phase-I) is not changed as per GEN Order, CEA letter No.2/NR/S/ARR-12/12-13 dated 10.01.2012 & NWN/SO & Comm/CHNSWPR-02 dated 03.04.10



WESTERN REGIONAL POWER COMMITTEE
CALCULATIONS FOR ALLOCATION OF SHARES with effective from OOD of Unit#3 Sipat-I
FOR CPP-PEAK HOURS (FROM 0600 TO 1800 HOURS & FROM 2200 TO 2400 HOURS)

	KSTPS	VSTPS-I	VSTPS-II	VSTPS-III	GGPP	GGPP	SIPAT-I	KAPP	TAPP 3&4	KSTPS-7	SIPAT-I	TOTAL
Installed Capacity (MW)	2100.00	1200.00	1000.00	1000.00	888.20	857.39	1000.00	440.00	1080.00	800.00	1980.00	16073.59
Firm allocation	1780.00	1070.00	850.00	850.00	558.00	558.00	630.00	374.00	918.00	426.00	1080.00	9928.00
Un-allocated share	310.00	130.00	150.00	150.00	330.20	299.39	370.00	66.00	162.00	374.00	900.00	6145.59

Allocation of bundling with solar Power under JNNISM

Maharashtra (NRYN coal power)	2.58	1.58	1.25	1.25			1.25			0.92	2.47	11
Balance un-allocated share	307.42	128.42	148.75	148.75	328.20	297.14	368.75	64.00	162.00	374.00	899.00	6136.59

Specific allocation out of Un-allocated share

Allocation to DD	40.00				76.91	29.31			4.00			102.30
Allocation to CMH	10.00				56.99	56.99						122.45
Allocation to Powergrid (HVDC-BHD)		2.92										2.92
Allocation to Powergrid (HVDC-VIN)		0.76										0.76
Allocation to MPAKVNL, Indore	2.23	1.89	1.60		0.80	0.69						7.90
Allocation to Goa					12.32	12.63						24.95
Machya Pradesh	52.63	32.25	25.47	25.47			25.47	11.21	27.60			136.80
Heavy Water Plant of DAE								14.60				14.60
Balance un-allocated share	282.65	100.29	121.78	122.28	0.00	0.00	123.28	36.79	134.60	74.74	282.53	1761.69

FIRM ALLOCATION MW

Gujarat	380.00	200.00	230.00	260.00	187.00	247.00	273.00	120.00	274.00	93.00	540.00	2827.00
Machya Pradesh	480.00	365.00	273.00	280.00	10.00	112.00	143.00	93.00	180.00	62.00	290.00	2270.00
Chhattisgarh	210.00	0.00	0.00	100.00	0.00	0.00	150.00	0.00	48.00	150.00	313.00	983.00
Maharashtra	210.00	470.00	410.00	250.00	204.00	200.00	253.00	137.00	353.00	160.00	540.00	3057.00
GOA	210.00	25.00	12.00	10.00	0.00	0.00	10.00	15.00	11.00	4.50	70.00	427.00
DD	0.00	0.00	0.00	0.00	2.00	2.00	1.00	2.00	5.00	1.60	8.00	27.60
CMH	0.00	0.00	0.00	0.00	25.00	2.00	4.00	2.00	7.00	2.70	9.00	60.20
TOTAL	1780.00	1070.00	850.00	850.00	558.00	558.00	630.00	374.00	918.00	426.00	1080.00	9928.00

ALLOCATION OF 10% UNALLOCATED SHARE IN MW

Gujarat	0.09 %	0.04 %	0.09 %	0.09 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
Machya Pradesh	16.61 %	37.25 %	29.98 %	22.57 %	24.08 %	0.00 %	0.00 %	24.09 %	7.19 %	28.28 %	14.53 %	17.56 %
Chhattisgarh	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
Maharashtra	43.97 %	88.85 %	68.59 %	53.25 %	54.21 %	0.00 %	0.00 %	54.21 %	16.18 %	59.14 %	32.70 %	179.50 %
GOA	1.47 %	2.92 %	2.22 %	1.29 %	1.81 %	0.00 %	0.00 %	1.81 %	0.54 %	1.98 %	1.02 %	4.33 %
DD	0.99 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	2.57 %	9.39 %	5.13 %	28.56 %
DD - Specific Allocation	40.00 %	0.00 %	0.00 %	0.00 %	0.00 %	28.59 %	29.31 %	0.00 %	4.00 %	0.00 %	0.00 %	102.90 %
CMH - Specific allocation	76.04 %	56.66 %	42.34 %	34.15 %	34.57 %	0.00 %	0.00 %	34.57 %	10.32 %	37.71 %	20.80 %	122.29 %
Goa - Specific allocation	0.00 %	0.00 %	0.00 %	0.00 %	65.69 %	56.48 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	122.43 %
Machya Pradesh	32.63 %	32.25 %	25.47 %	25.47 %	0.00 %	0.00 %	25.47 %	11.21 %	27.60 %	0.00 %	0.00 %	260.80 %
Allocation to Powergrid (HVDC-BHD)		2.92 %										2.92 %
Allocation to Powergrid (HVDC-VIN)		0.76 %										0.76 %
Allocation to MPAKVNL, Indore (Sp. Allo)	2.23 %	1.89 %	1.60 %		0.80 %	0.69 %						7.90 %
Allocation to MPAKVNL, Indore	2.23 %	1.54 %	1.23 %		0.00 %	0.00 %						5.00 %
Heavy Water Plant of DAE								14.60 %				14.60 %
Total	307.12 %	188.42 %	148.75 %	148.75 %	98.20 %	98.39 %	148.75 %	60.00 %	162.00 %	24.36 %	294.53 %	1736.50 %

Total Allocation (Firm + Specific allocation + allocation from balance un-allocated share) in MW

Gujarat	380.00	230.00	230.00	260.00	187.00	247.00	273.00	120.00	274.00	93.00	540.00	2827.00
Machya Pradesh	480.00	445.22	321.84	290.00	10.00	112.00	143.00	93.00	180.00	62.00	290.00	2270.00
Chhattisgarh	210.00	0.00	0.00	100.00	0.00	0.00	150.00	0.00	48.00	150.00	313.00	983.00
Maharashtra	693.15	476.36	372.55	312.21	204.00	200.00	312.21	153.78	492.14	160.00	636.50	3961.30
GOA	210.00	37.25	13.79	14.81	12.37	12.63	11.81	15.54	12.96	4.59	74.53	471.05
DD	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00
DD - Specific Allocation	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00
CMH	63.69	17.34	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15	131.50
Allocation to Powergrid (HVDC-BHD)		2.92										2.92
Allocation to Powergrid (HVDC-VIN)		0.76										0.76
Allocation to MPAKVNL, Indore	4.09	3.43	2.73		0.80	0.69						12.50
Heavy Water Plant of DAE								14.60				14.60
Maharashtra (NRYN coal power)	2.58	1.58	1.25	1.25			1.25			0.92	2.47	11.00
TOTAL	2800.00	1700.00	1000.00	1000.00	658.20	658.39	1000.00	440.00	1080.00	426.00	1080.00	16073.59

Note: (i) Allocation from unallocated quota of coal based stations of NTPC for unburnt 100% coal power under JNNISM (Phase-I) in WR changed as per O&A Division, CEA letter No.5/WRCS/CM-12/12-13 dated 16.01.2012 & Govt/INN/SM/MP-02 dated 04.04.2012.



Annexure II: Suspension Order on Mining Activities

No. DMG/MAJ/ML/SUS/01/8326
Government of Goa
Directorate of Mines
& Geology
Udyog Bhavan
2nd floor
Panaji Goa
Dated: 10th September, 2012

**ORDER OF TEMPORARY SUSPENSION OF ALL MINING
OPERATIONS IN THE STATE OF GOA**

Whereas, Hon'ble Justice Shah Commission of Inquiry was constituted by the Central Government to look into the aspect of illegal mining in various States including State of Goa.

And Whereas, Part I and Part II of the Shah Commission's Report is uploaded on the Website of Ministry of Mines, Government of India.

And Whereas, serious illegalities and irregularities have been pointed out in the Report of the Commission concerning mining operations in the State of Goa.

And Whereas, the Government of Goa, has assured zero tolerance to corruption including doing away with illegalities in mining sector.

And Whereas, positive actions were initiated since the present Government has come in power.

And Whereas, the Government is examining the report of the Shah Commission to take positive necessary actions in this behalf so also to file action taken report on the Report of the Commission.

And Whereas, it is necessary in order to scrutinize clearances obtained by the mining lease holders and allowing continuation of mining without proper scrutiny and verification of requisite approval may not be desirable in light of shortcomings pointed out in the report.



Now, therefore, the Government of Goa, hereby order suspension of mining operation of all the Mining Leases existing in State of Goa with effect from 11th of September, 2012 until further orders.


The suspension of mining operation shall not affect trade and transportation of ore already mined and existing in the lease hold area, in transit or stored or stocked on the jetties.

The lease holders or traders who have procured such quantities of ore shall report the exact quantum of ore with grade and other details of ore and exact location of existence of ore, within a period of seven days to the Director of Mines Directorate of Mines & Geology, Goa.

The Director of Mines & Geology shall constitute teams for inspection of the quantities of ore lying at the lease hold area or such places as mentioned by the lease holders or the traders. The Team Members shall be randomly selected from Mines, Forest and Revenue Department.

There shall be a verification and clearance committee. The Committee shall expeditiously scrutinize the documents, papers, approvals etc. as per a check list to be notified separately in respect of each mining lease so that those who have valid clearance are allowed to commence mining operations for the rest of the season.

This issues with the approval of the Government.


(R.K. Verma)
Principal Secretary (Mines & Geology)

To:

All the Mining Lease Holders through :

1. Goa Mine Owners Association,
P.B. No.113, Waglo Building, Panaji Goa.
2. Goa Mineral Ore Exporters Association,
having their office at Waglo Building, Panaji Goa.



Annexure III: SRPC Letter on Transmission Loss

1 :SRPC BANGALURU

FAX NO. :0802235261602359343 22 Jan. 2013 5:30PM P1

FAX

भारत सरकार केंद्रीय विद्युत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति बेंगलूर- 560 009				Government of India Central Electricity Authority Southern Regional Power Committee Bangalore- 560 009	
Web site: www.srpc.kar.nic.in		Phone: 080-22287205		Fax: 080-22259343	
सं/No.	SRPC/SE-I/2013/	दिनांक / Date		22.01.2013	

Chief Electrical Engineer
Electricity Department
Vidyut Bhavan, 3rd Floor
Panaji – Goa.

Sub: Regarding Southern Regional losses

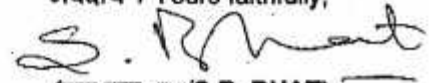
Sir,

Kind reference is invited to letter No.120/03/ARR2013-14/CEE/Tech/1140 dated 22nd January 2013 on the subject. In this regard, following is brought to kind attention:

- The loss incurred due to wheeling of Goa's share in Ramagundam STPS through Karnataka system gets accounted as Karnataka's drawal in the present accounting system.
- Hence, credit is to be given to Karnataka to compensate the loss incurred due to wheeling of Goa's share.
- As per the approved scheme in SR, 4% loss is being considered for giving wheeling credit to the wheeling system. At present, the loss percentage approved by KERC for open access transaction is 3.96%, which is for information only.
- SR losses are of the order of about 4-5%.
- As can be appreciated, in the absence of any loss credit etc to the wheeling system, there would be bottlenecks in transfer of power to the recipient since in the commercial mechanism (PoC regime), the transmission charges are borne by the wheeling State. For eg. in this instance, Karnataka is bearing the transmission charges.

Trust the above satisfies the requirement.

भवदीय / Yours faithfully,



(एस.आर. भट्ट/S.R. BHAT)

प्रभारी सदस्य सचिव / Member Secretary I/c



Annexure IV: Month wise Power Purchase Details – FY12-13 (H1)

NTPC LIMITED																	
WESTERN REGION HEADQUARTERS, MUMBAI-400093																	
LC BILL RAISED IN THE MONTH OF May-12																	
REF: REA/2011-12/4.0						DATED: 4-May-12						FAX to: Executive Engineer, Div-3 0832-2317810/2313780					
Bill No. WR-10-11 : GOA						DATED: 6-May-12						CUSTOMER: GOA					
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	K-STPS 1	TSTPS	K-STPS 2	RSTPS		
	Energy scheduled (KWH)	110177915	3478143	21141119	8886194	8122456	APM: 5952418 N-APM: 1292802 Lq: 532547 RLNG: 532547	APM: 5952972 N-APM: 532547 RLNG: 532547	1538604	7883582	0	0	0	0	65109431		
	Energy Charges (Ps/KWH)	76.00	75.10	147.00	138.70	138.70	N-APM: 376.4 Lq: 783.6 RLNG: 779.7	APM: 213.5 N-APM: 750.7 RLNG: 369.6	98.20	97.50	272.80	259.80	153.20	220.10	149.100		
															AMT(Rs)		
01.	Capacity Charges	64274776	4883353	12830187	6629492	8143419	7509484	8441166	4157121	9013275	0	0	0	0	36303389	162185662	
02.a.	Energy Charges	83735215	2612085	31077445	12325151	11265846	17520948	13909289	1510909	7686492	0	0	0	0	97078162	278721542	
02.b.	MOPA Charges	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	
04.a.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04.b.	ED&Cess on APC	2859637	90271	1193008	501454	458356			36999	198406	0	0	0	0	0	5338131	
	Total (Main Bills) Rs.	150869628	7585709	45100640	19456097	19867621	25030432	22350455	5705029	16898173	0	0	0	0	133381551	446245335	
05.	REA/2011-12/3.1&MOPA Chgs of prev month	0	0	(230932)	(58298)	(65562)	(1906)	13686	601	41491	0	0	0	0	1224783	923863	
06.	KHS-2 (2009-14 Tariff order CERC dtd 13.04.2012)														0	0	
07.	Interest on KHS-2 FC Rvsn (Sl No 6)														0	0	
08.	FERV VS-2 & SP-2 (09-10 & 10-11)					2261037				(2478169)						(217133)	
09.	Vin-1/2/3 ECR Rvsn			2936372	1179536	964234										5080142	
10.	KHS-2 ECR Rvsn, WC, Filing / Publication expense														0	0	
11.	Filing chgs-KG/JG/V2/SP2/KH2/Green cess - JG				54268		49480	178561		46336						328645	
12.																0	
13.		0														2	
14.	supplimentary bills (total)	0	0	2705440	3436543	898672	47574	192247	601	(2390342)	0	0	0	0	1224785	0	
15.	LC Bill (Gross) Rs.	150869628	7585709	47806080	22892640	20766293	25078006	22542702	5705630	14507831	0	0	0	0	134606336	452360854	
16.																	
17.	Net LC Bill (Gross-Rebate)	150869628	7585709	47806080	22892640	20766293	25078006	22542702	5705630	14507831	0	0	0	0	134606336	452360854	
Details of URS											Debit for URS scheduled from other SEBs					789420	
i	Rate of FC for URS@ (Ps/Kwh)	58.34	147.94	60.68	74.60	110.40	88.71	108.77	0.00	124.22							
ii	URS in KWH	0	0	0	0	0	727746	132240	0	0							
iii	URS in Rs	0	0	0	0	0	645583	143837	0	0							
				REBATABLE Rs.	446911211											TOTAL PAYABLE (WR + SR) for the month	453150274
				NON-REBATABLE Rs.	6239063											Less Advance available (including adjustment in rebate)	
				Total Bill Rs.	453150274											NET PAYABLE (Rs.)	453150274
For & on behalf of NTPC Ltd.																	



ARR & Tariff Petition for FY 2012-13

NTPC LIMITED																
WESTERN REGION HEADQUARTERS, MUMBAI-400093																
LC BILL RAISED IN THE MONTH OF Jun-12																
REF: REA/2011-12/5.0						DATED: 3-Jun-12						FAX to: Executive Engineer, Div-3 0632-2317810 /2313780				
Bill No. WR:10-11: GOA						DATED: 6-Jun-12						CUSTOMER: GOA				
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	AMT(Rs)
	Energy scheduled (KWH)	116308102	3608082	20756482	9287073	8140742	APM: 4168579 N-APM: 1458916 Lq : RLNG:	APM: 6673916 RLNG: N- APM: 639740	6094942	8180353	0	0	0	0	69178903	
	Energy Charges (Ps/KWH)	74.50	73.60	142.80	134.80	134.80	APM: 218 N-APM: 294.9	APM: 218.2 RLNG: 629	98.10	97.60	314.70	258.70	170.70	244.20	167.200	
01.	Capacity Charges	67850989	5237290	12595632	6928191	8448113	7104213	9470501	8119956	9334783	0	0	0	0	38572388	173662056
02.a.	Energy Charges	86649536	2655548	29640256	12518974	10973720	13389845	16416452	5979138	7984025	0	0	0	0	115667126	301874620
02.b.	MOPA Charges	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
04.a.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.b.	ED&Cess on APC	3406750	105683	1247507	558172	489275		147276	191961		0	0	0	0	0	6146624
	Total (Main Bills) Rs.	157907275	7996521	43483395	20005337	19911108	20494058	25886953	14246370	17510769	0	0	0	0	154239514	481683300
05.	REA/2012-13/4.1&MOPA Chgs of prev.month	0	175996	0	0	171660	43700	3222	(13847)	(70952)	0	0	0	0	0	309779
06.	CERC Tariff order 2009-14 (KST-3, VST-3, KHS-1)		409125			6931531						13130				7353786
07.	Interest on FC Rvsn mentioned above (Sl No 6)		58032			1342829						4484				1405345
08.	Filing fees & Publication Expense KST-3, VST-3, KHS-1		38964			121676						181				160821
09.	FERV/KST-3, VST-3, KHS-1, KHS-2 (2009-12)		31583		(4)	941668						18		0		973255
10.	Deferred Tax Liability, Addl Income Tax & Tax refund (00-0)	6849435		4128345			305	145			9691	3387			2571556	13562864
11.	Gujarat Green Cess (Kawas-April 2012)						154878									154878
12.	Interest on Installments															0
13.		0													7	7
14.	supplementary bills (total)	6849435	713700	4128345	(4)	9509354	198883	3367	(13847)	(70952)	9691	21200	0	0	2571563	0
15.	LC Bill (Gross) Rs.	164756710	8712221	47611740	20005333	29420462	20692941	25890320	14232523	17439817	9691	21200	0	0	156811077	505604035
16.																
17.	Net LC Bill (Gross-Rebate)	164756710	8712221	47611740	20005333	29420462	20692941	25890320	14232523	17439817	9691	21200	0	0	156811077	505604035
Details of URS															Debit for URS scheduled from other SEBs	334827
i	Rate of FC for URS@ (Ps/Kwh)	58.34	153.27	60.68	74.60	112.72	88.71	108.77	0.00	124.22						
ii	URS in KWH	0	0	0	0	0	101560	225000	0	0						
iii	URS in Rs	0	0	0	0	0	90094	244733	0	0						
															TOTAL PAYABLE (VR + SR) for the month	505938862
															Less Advance available (including adjustment in rebate)	
															NET PAYABLE (Rs.)	505938862
For & on behalf of NTPC Ltd.																



ARR & Tariff Petition for FY 2012-13

NTPC LIMITED																	
WESTERN REGION HEADQUARTERS, MUMBAI- 400093																	
LC BILL RAISED IN THE MONTH OF Jul-12																	
REF: REA2011-12/6.0	DATED: 4-Jul-12					FAX to: Executive Engineer, Div-3					0832-2317810 / 2313780						
Bill No. WR:11-12 : GOA	DATED: 6-Jul-12					CUSTOMER: GOA											
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	AMT(Rs)	
	Energyscheduled(KWH)	104092681	3620660	20988223	7463289	7828270	APM: 4773129 N-APM:861117 Lq : RLNG: 1943	APM: 5549386 RLNG: N- APM: 347038	8831528	7299461	0	0	0	0	58727152		
	B.E Charges(Ps/KWH)	100.80	99.40	147.70	139.40	139.40	APM: 227.9 N-APM: 307.5	APM : 229 RLNG : 889	114.00	107.70	300.80	223.00	162.30	210.50	155.600		
	FPA Charges(Ps/KWH)																
01.	Capacity Charges	60724828	5167601	12736241	5567864	8148299	7377973	8510583	12326330	8652971	0	0	0	0	32743649	161956339	
02.a.	Basic Energy Charges	104925422	3598837	30999605	10403825	10912608	13543099	13755455	10067942	7861519	0	0	0	0	91379449	297447761	
02.c.	MOPACharges	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	
04.a.	ED&Cess on APC	3096006	107685	1297526	461393	483956			207739	176768	0	0	0	0	0	5831073	
04.b.	ED&Cess on Sales															0	
	Total (Main Bills) Rs.	168746256	8874123	45033372	16433082	19544863	20921072	22266038	22602011	16691258	0	0	0	0	124123098	46525173	
05.	REA2012-13/5.1&MOPACHgs of prev.month	(116308)	0	0	49	0	30201	20948	(97519)	(130886)	0	0	0	0	622610	329095	
06.	CERC Tariff order 2009-14 (FST-14 Jun12,TST-15 Jun12)										73688		23023			96711	
07.	Interest on FC Rvsn mentioned above (SI No 6)										25782		8100			33882	
08.	Filing fees / Publication Expense adjustment		(2)		8	(4)				12	752		267			1033	
09.	FERV - FST & ECR - FST										30					30	
10.	JGP-ECR(Non APM)/MOPA Rvsn,Vin-1/KH-2 WC			90954					(2220417)							(2129463)	
11.	Gujarat Green Cess (Kawas & Gandhar-May 2012)						132174	157632								289806	
12.																0	
13.																0	
14.	supplimentary bills(total)	(116308)	(2)	90954	57	(4)	162375	(2041837)	(97519)	(130874)	100252	0	31390	0	622610		
15.	LC Bill (Gross) Rs.	168629948	8874121	45124326	16433139	19544859	21083447	20224201	22504492	16560384	100252	0	31390	0	124745713	463856272	
16.																	
17.	Net LC Bill (Gross-Rebate)	168629948	8874121	45124326	16433139	19544859	21083447	20224201	22504492	16560384	100252	0	31390	0	124745713	463856272	
Details of URS											Debit for URS scheduled from other SEBs					629517	
i	Rate of FC for URS@ (Ps/Kwh)	58.34	153.27	60.68	74.60	112.72	88.71	108.77	137.65	124.22							
ii	URS in KWH	0	0	0	0	0	504190	167555	0	0							
iii	URS in Rs	0	0	0	0	0	447267	182250	0	0							
				REBATABLE	Rs.	457609445										TOTAL PAYABLE (WR + SR) for the month	464485789
				NON-REBATABLE	Rs.	6876344										Less Advance available (including adjustment in rebate)	
				Total Bill	Rs.	464485789										NET PAYABLE (Rs.)	464485789
For & on behalf of NTPC Ltd.																	



ARR & Tariff Petition for FY 2012-13

NTPC LIMITED																	
WESTERN REGION HEADQUARTERS, MUMBAI-400093																	
LC BILL RAISED IN THE MONTH OF Aug-12																	
REF: REA/2011-12/7.0	DATED: 4-Aug-12		FAX to: Executive Engineer, Div-3														
Bill No. WR:11-12: GOA	DATED: 6-Aug-12		0832-2317810 /2313780														
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	CUSTOMER: GOA	
	Energy scheduled (K/WH)	148484278	3779080	24676728	5707778	6754687	APM: 2876238 N-APM: 1124955 Lq : RLNG :	APM: 7473988 RLNG: N- APM: 389494	8310017	7403168	0	0	0	0	60620761		
	Energy Charges (Ps/KWH)	88.40	87.60	149.20	140.90	140.90	APM: 233.9 N-APM: 315.7	APM: 233.5 RLNG : 857	146.90	138.90	316.50	291.30	154.20	275.00	152.100		
																AMT(Rs)	
01.	Capacity Charges	86621433	5368630	14974373	4258004	7668143	7765716	9589553	11917648	8851099	0	0	0	0	33800475	190815074	
02.a.	Energy Charges	131260102	3310474	36817678	8042259	9517354	10279004	18655688	12207415	10283000	0	0	0	0	92204177	332577151	
02.b.	MOPA Charges	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	
04.a.	ED&Cess on APC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04.b.	ED&Cess on Sales															0	
	Total (Main Bills) Rs.	217881535	8679104	51792051	12300263	17185497	18044720	28245241	24125063	19134099	0	0	0	0	126004652	523392225	
05.	REA/2012-13/6.1&MOPA Chgs of prev.month	(1040926)	(36206)	0	0	0	27213	18626	58433	248182	0	0	0	0	0	(724678)	
06.	Energy Charges Rvsn (KST-3, KGP, JGP)		(1012)				(6181015)									(6182027)	
07.	Spat - 1 CC Rvsn (CERC order dated. 18.07.2012)								1815976							1815976	
08.	Filing fees / Publication Expense adjustment				(4)					(8)						(12)	
09.	Water / Pollution Cess (Vin-1, KHS-2)			24353												24353	
10.	Gujarat Green Cess (Kawas & Gandhar-June 2012)						126288	129268								255556	
11.		0														0	
12.		0														0	
13.		0														0	
14.	total supplementary	(1040926)	(37218)	24353	(4)	0	(6027514)	147894	1874409	248174	0	0	0	0			
15.	LC Bill (Gross) Rs.	216840609	8641886	51816404	12300259	17185497	12017206	28393135	25999472	19382273	0	0	0	0	126004654	518581395	
16.																	
17.	Net LC Bill (Gross-Rebate)	216840609	8641886	51816404	12300259	17185497	12017206	28393135	25999472	19382273	0	0	0	0	126004654	518581395	
Details of URS																	
i	Rate of FC for URS@(Ps/Kwh)	58.34	153.27	60.68	74.60	112.72	88.71	108.77	134.75	124.22							
ii	URS in KWH	0	0	0	0	0	0	0	0	0							
iii	URS in Rs	0	0	0	0	0	0	0	0	0							
							REBATABLE Rs.	518301498								TOTAL PAYABLE (WR + SR) for the month	518581395
							NON-REBATABLE Rs.	279897								Less Advance available (including adjustment in rebate)	
							Total Bill Rs.	518581395								NET PAYABLE (Rs.)	518581395
For & on behalf of NTPC Ltd.																	



ARR & Tariff Petition for FY 2012-13

NTPC LIMITED																	
WESTERN REGION HEADQUARTERS, MUMBAI-400093																	
LC BILL RAISED IN THE MONTH OF Sep-12																	
REF: REA/2011-12/8.0	DATED: 5-Sep-12					FAX to: Executive Engineer, Div-3					0832-2317810 /2313780						
Bill No. WR:11-12 : GOA	DATED: 6-Sep-12					CUSTOMER: GOA											
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS		
	Energyscheduled(KWH)	140054646	3790048	18923928	7254694	4833375	APM: 5646732 N- APM:1419385 Lq : RLNG:	APM: 6319195 N- APM: 346601	12329885	5801639	0	0	0	0	66415969		
	Energy Charges(Ps/KWH)	101.90	100.90	158.90	150.00	150.00	APM: 231.8 N-APM: 312	APM : 233.4 RLNG : 822.4	145.90	149.10	304.70	245.80	118.80	232.00	138.500		
															AMT(Rs)		
01.	Capacity Charges	81764594	5376625	11492665	5417357	6573098	7770159	9628834	16831646	7871834	0	0	0	0	38522144	191248956	
02.a.	Energy Charges	142715684	3824158	30070122	10882041	7250063	17517606	15811680	17989302	8650244	0	0	0	0	91986117	346697017	
02.b.	MOPACHarges	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	
04.a.	ED&Cess on APC	0	0	0	0	0			0	0	0	0	0	0	0	0	
04.b.	ED&Cess on Sales															0	
	Total (Main Bills) Rs.	224480278	9200783	41562787	16299398	13823161	25287765	25440514	34820948	16522078	0	0	0	0	130508261	537945973	
05.	REA/2012-13/7.1&MOPA Chgs of prev.month						22431	2398	(43950)	19735	0	0	0	0	1360327	1360941	
06.	ED & Cess on APC & Sales - July 2012	5169723	131575	1566639	362136	428558			303743	282671						8244045	
07.	ED-APC Rvsn Apr-Jun12(Chattisgarh SERC tariff order)	3215368	104281						143341	207375						3670365	
08.	Filing fees / Publication Expense Adjustment		(2)		(36)	(28)				(16)						(82)	
09.	Water / Pollution Cess - KHS-2															0	
10.	Gujarat Green Cess (Kawas & Gandhar - July 2012)						91903	172256								264159	
11.	RST-1 final tariff order 2009-14 (dtd 31.08.2012)														58752717	58752717	
12.	Filing fees / Publication Expense (RST-1)														1035139	1035139	
13.	Interest on Tariff Revision														12272020	12272020	
14.	total supplementary	8385091	235854	1565639	362100	428530	114334	174654	403134	509765	0	0	0	0	73420212		
15.	LC Bill (Gross) Rs.	232865369	9436637	43128426	16661498	14251691	25402099	25615168	35224082	17031843	0	0	0	0	203928473	623545286	
16.																	
17.	Net LC Bill (Gross-Rebate)	232865369	9436637	43128426	16661498	14251691	25402099	25615168	35224082	17031843	0	0	0	0	203928473	623545286	
Details of URS																	
i	Rate of FC for URS@ (Ps/Kwh)	58.34	153.27	60.68	74.60	112.72	88.71	108.77	127.73	124.22						0	
ii	URS in KWH	0	0	0	0	0	0	0	0	0							
iii	URS in Rs	0	0	0	0	0	0	0	0	0							
	Pooled Energy Charges (Ps/KWh)	1.68		REBATABLE	Rs.	598059638										TOTAL PAYABLE (WR + SR) for the month	623545286
	Pooled Capacity Charges (Ps/KWh)	0.93		NON-REBATABLE	Rs.	254856648										Less Advance available (including adjustment in rebate)	
	Pooled Total Charges (Ps/KWh)	2.60		Total Bill	Rs.	623545286										NET PAYABLE (Rs.)	623545286
For & on behalf of NTPC Ltd.																	



ARR & Tariff Petition for FY 2012-13

NTPC LIMITED																	
WESTERN REGION HEADQUARTERS, MUMBAI- 400093																	
LC BILL RAISED IN THE MONTH OF Oct-12																	
REF:	REA/2011-12/9.0	DATED:	4-Oct-12											FAX to:	Executive Engineer, Div-3		
Bill No.	WR-12-13 : GOA	DATED:	5-Oct-12											0832-2317810 /2313780	CUSTOMER:	GOA	
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	AMT(Rs)	
	Energy scheduled(KWH)	122331036	3291121	16508275	7050123	6242083	APM: 6007679 N-APM:440030 Lq : RLNG:	APM: 6299749 RLNG : N- APM: 106389	12113778	4746421	0	0	0	0	56700152		
	Energy Charges(Ps/KWH)	129.20	129.70	152.90	144.40	144.40	APM : 231.9 N-APM : 312.3 Lq : 949.2 RLNG : 752	APM : 234.5 RLNG : 758.8 N-APM : 306.9	173.70	130.90	285.90	209.30	110.70	197.60	140.700		
01.	Capacity Charges	71382090	4913468	11986476	6541816	8168580	7525058	9362371	16466572	7284485	0	0	0	0	32887018	176517934	
02.a.	Energy Charges	158051776	4268584	25241152	10180378	9013568	15306022	15099419	21041632	6213065	0	0	0	0	79777114	344192710	
02.b.	MOPACharges	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	
04.a.	ED&Cess on APC	0	0	0	0	0			0	0	0	0	0	0	0	0	
04.b.	ED&Cess on Sales															0	
	Total (Main Bills) Rs.	229433866	9182052	37227628	16722194	17182148	22831080	24461790	37508204	13497550	0	0	0	0	112664132	520710644	
05.	REA/2012-13/8.1&MOPAChgs of prev.month	0	0	2288847	1065139	637759	28697	3403	(158173)	459698	0	0	0	0	4715534	9040904	
06.	ED & Cess (on APC & Sales) - August 2012	4656891	126021	1311041	502600	334853			488940	239226						7659572	
07.	Vin-1 tariff order 2009-14 (CC/FERV/Filing/Publication)			24153180												24153180	
08.	Filing fees / Publication Expense Adjustment			(5)	4	12				4						15	
09.	Interest on Vin-1 tariff revision (Sl. No. 7)			4990647												4990647	
10.	Gujarat Green Cess (Kawas & Gandhar - August 2012)						169909	157437								327346	
11.	LPPF Rvsn due to GCV based pricing mechanism	64884240	1979171	19874816	6217712	5985830			4098458	490434				0		103530661	
12.																0	
13.																0	
14.	Total supplementary	69541131	2105192	52618526	7785455	6958454	198606	160840	4429225	1189362	0	0	0	0	4715525	(9)	
15.	LC Bill (Gross) Rs.	298974997	11287244	89846154	24507649	24140602	23029686	24622630	41937429	14686912	0	0	0	0	117379657	670412960	
16.																	
17.	Net LC Bill (Gross-Rebate)	298974997	11287244	89846154	24507649	24140602	23029686	24622630	41937429	14686912	0	0	0	0	117379657	670412960	
Details of URS																0	
i	Rate of FC for URS@(Ps/Kwh)	58.34	153.27	63.09	74.60	112.72	88.71	108.77	119.80	124.22							
ii	URS in KWH	0	0	0	0	0	0	0	0	0	Credit for URS scheduled by other SEBs - August 2012					(6485)	
iii	URS in Rs	0	0	0	0	0	0	0	0	0	Less 5/6th amount of LPPF Rvsn due to GCV based pricing mechanism					(86275551)	
	Pooled Energy Charges (Ps/KWh)	1.42		REBATABLE	Rs.	570551022						TOTAL PAYABLE (WR + SR) for the month					584130924
	Pooled Capacity Charges (Ps/KWh)	0.73		NON-REBATABLE	Rs.	13579902						Less Advance available (including adjustment in rebate)					
	Pooled Total Charges (Ps/KWh)	2.15		Total Bill	Rs.	584130924						NET PAYABLE (Rs.)					584130924
For & on behalf of NTPC Ltd.																	



NTPC LIMITED																
WESTERN REGION HEADQUARTERS, MUMBAI- 400093																
SUMMARY OF FY 2012-13 (April-Sep 2012)																
												CUSTOMER: GOA				
												FAX to: Executive Engineer, Div-3 0832-2317810 /2313780				
Bill No.	WR-11-12 : GOA															
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	Total Units
	Energy scheduled(KWH)	741,448,718	21,567,034	122,994,755	45,649,151	41,921,613	37,357,419	40,795,810	49,218,754	41,314,624	-	-	-	-	376,752,368	1519020246.00
	Energy Charges(Ps/KWH)															AMT(Rs)
01.	Capacity Charges	432618710	30946967	76615574	35342724	47149652	45052603	55003008	69819273	51008447	0	0	0	0	212829063	1056386021
02.a.	Basic Energy Charges	707337735	20269686	183846258	64352628	58933159	87566524	93647983	68796338	48678345	0	0	0	0	568092145	1901510801
02.c.	MOPA Charges	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
04.a.	ED&Cess on APC	9362393	303639	3738041	1521019	1431587	0	0	392014	567135	0	0	0	0	0	17315828
04.b.	ED&Cess on Sales															
	Total (Main Bills) Rs.	1149318838	51520292	264199873	101216371	107514398	132609127	148650991	139007625	100253927	0	0	0	0	780921208	2975212650
05.	Supplementary Charges	83618423	3017526	61133257	11584147	17795006	(5305742)	(1362835)	6596003	(644867)	109943	21200	31390	0	82554695	259148145
	URS						1753764									1753764
	credits(LPPF 5/6th refunded)															(86282036)
06.	LC Bill (Gross) Rs.	1232937261	54537818	325333130	112800518	125309404	129057149	147288156	145603628	99609060	109943	21200	31390	0	863475903	3149832523



ARR & Tariff Petition for FY 2012-13

NTPC LIMITED																
WESTERN REGION HEADQUARTERS, MUMBAI- 400093																
LC BILL RAISED IN THE MONTH OF Nov-12																
REF: REA/2011-12/10.0	DATED: 4-Nov-12					FAX to: Executive Engineer, Div-3					0832-2317810 /2313780					
Bill No. WR-11-12 : GOA	DATED: 5-Nov-12					CUSTOMER: GOA										
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-1	SIPAT-2	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	
	Energy scheduled(KVH)	117571750	3296382	24650263	8944289	8018783	APM: 4978535 N-APM: 1355430 Lq : 35778 RLNG : 35778	APM: 5056472 RLNG: 10885 N-APM: 469179	11754440	5734137	0	0	0	0	54261109	
	Energy Charges(Ps/KVH)	99.40	99.50	156.30	147.50	147.50	APM: 228.4 N-APM: 307.9	APM : 230.2 RLNG : 713.4	110.20	100.50	282.30	205.40	153.20	193.90	173.500	
															AMT(Rs)	
01.	Capacity Charges	64937506	5043631	15833511	7102021	8552190	7529589	9627962	16801590	9001756	0	0	0	0	31471651	
02.a.	Energy Charges	116866320	3279900	38528361	13192826	11827705	15805666	13835837	12953393	5762808	0	0	0	0	94143024	
02.b.	MOPA Charges	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	
04.a.	ED&Cess on APC	0	0	0	0	0			0	0	0	0	0	0	0	
04.b.	ED&Cess on Sales														0	
	Total (Main Bills) Rs.	181803826	8323531	54361872	20294847	20379895	23335255	23463799	29754983	14764564	0	0	0	0	125614675	
05.	REA/2012-13/9.18/MOPA Chgs of prev.month	244662	3291	973989	387756	343314	38843	5798	605689	289532	0	0	0	0	(1995922)	
06.	ED & Cess (on APC & Sales) - September 2012	4014023	107991	1054050	450149	398556			473700	186994					6685463	
07.	KST-1 tariff order 2009-14 (CC/FERV/Filing/Publication)	200740955													200740955	
08.	FERV (VST-2/ SP-2/ RST / KHS-1 / FST)				7685504					(428397)	45	17			282173	
09.	Interest on KST-1 and Vin-1 tariff revision (Sl. No.7 & 11)	58963636		55694											40309	
10.	Gujarat Green Cess (KGJG Sept 12) & REA 8.1 Rvsn			16007	21094	33768	142223	136681	45932	20904					416609	
11.	VS-1 corrigendum tariff order 09-14 (CERC dtd 11.10.12)			265858											265858	
12.	Filing fees / Publication Expense Adjustment	(8)		30	32	20				20					94	
13.	Water pollution cess(FST,KH-2,KST) ECR Rvsn KST-3	1923963	(24940)	48632							(3446)				1944199	
14.	Total supplementary	265887221	86342	2414260	8544535	775658	181066	142479	1125321	69053	(3401)	17	0	0	(1673425)	
15.	LC Bill (Gross) Rs.	447691047	8409873	56776132	28839382	21155553	23516321	23606278	30880304	14833617	(3401)	17	0	0	123941250	
16.																
17.	Net LC Bill (Gross-Rebate)	447691047	8409873	56776132	28839382	21155553	23516321	23606278	30880304	14833617	(3401)	17	0	0	123941250	
Details of URS											Credit for URS scheduled by other SEBs					
i	Rate of FC for URS@ (Ps/Kwh)	53.70	153.27	63.11	74.60	112.72	88.71	108.77	119.80	124.22						
ii	URS in KVH	0	0	0	0	0	(527553)	(157276)	(57475)	(44491)	Less 5/6th amount of KST-1 and VST-1 CC Rvsn and Interest					
iii	URS in Rs	0	0	0	0	0	(467992)	(171069)	(68855)	(55267)	2nd installment of LPPF Rvsn due to GCV based pricing (Bill date 05/10)					
	Pooled Energy Charges (Ps/KWh)	1.32		REBATABLE Rs.		504249779						TOTAL PAYABLE (WR + SR) for the month				
	Pooled Capacity Charges (Ps/KWh)	0.71		NON-REBATABLE Rs.		78532813						Add:Previous month adjustment in rebate				
	Pooled Total Charges (Ps/KWh)	2.04		Total Bill Rs.		582782592						7638				
											NET PAYABLE (Rs.)					
											582790230					
For & on behalf of NTPC Ltd.																



ARR & Tariff Petition for FY 2012-13

NTPC LIMITED																	
WESTERN REGION HEADQUARTERS, MUMBAI- 400093																	
LC BILL RAISED IN THE MONTH OF										Dec-12							
REF: REA/2011-12/11.0	DATED: 2-Dec-12		FAX to: Executive Engineer, Div-3 0832-2317810 /2313780														
Bill No. WR-11-12 : GOA	DATED: 5-Dec-12		CUSTOMER: GOA														
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-2	SIPAT-1	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	AMT(Rs)	
	Energy scheduled(KWH)	143347628	3347088	20515551	8520661	7257788	APM: 2234904 N- APM:1152976 Lq : RLNG	APM: 4998599 RLNG: N- APM: 272234	10224977	5910831	0	0	0	0	56904078		
	Energy Charges(Ps/KWH)	75.30	74.60	105.50	99.60	99.60	APM: 222.5 N-APM: 300.3	APM: 222.7 RLNG : 713.4	142.00	140.30	179.20	180.30	158.00	170.20	161.800		
01.	Capacity Charges	77437084	4966353	15604669	6858173	8283224	5716132	9471692	15749250	8945104	0	0	0	0	33004383	186026064	
02.a.	Energy Charges	107940764	2496928	21643906	8486578	7228757	8435048	11935515	14519467	8232896	0	0	0	0	92070798	283050657	
02.b.	MOPA Charges	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	
04.a.	ED&Cess on APC	0	0	0	0	0			0	0	0	0	0	0	0	0	
04.b.	ED&Cess on Sales															0	
	Total (Main Bills) Rs.	185377848	7453281	37248575	15344751	15511981	14151180	21407207	30268717	17238000	0	0	0	0	125075181	469076721	
05.	REA/2012-13/10.1&MOPA Chgs of prev.month	(8582738)	(240636)	0	0	0	0	4201	258598	91746	0	0	0	0	0	(8468829)	
06.	ED & Cess (on APC & Sales) - October 2012	4220322	118326	1458138	529082	474335			459201	223415						7482819	
07.																0	
08.																0	
09.																0	
10.	Gujarat Green Cess (KGJG - October 2012)						139664	117770								257434	
11.																0	
12.	Filing fees / Publication Expense/Water cess Adjustment	10		5												15	
13.	Interest on Installments	1774147		2539												1776686	
14.	supplimentray	(2588259)	(122310)	1460682	529082	474335	139664	121971	717799	315161	0	0	0	0	0	0	
15.	LC Bill (Gross) Rs.	182789589	7330971	38709257	15873833	15986316	14290844	21529178	30986516	17553161	0	0	0	0	125075181	470124846	
16.																	
17.	Net LC Bill (Gross-Rebate)	182789589	7330971	38709257	15873833	15986316	14290844	21529178	30986516	17553161	0	0	0	0	125075181	470124846	
Details of URS											Credit for URS scheduled by other SEBs					(877616)	
i	Rate of FC for URS@(Ps/Kwh)	53.70	153.27	63.11	74.60	112.72	88.71	108.77	119.80	124.22							
ii	URS in KWH	0	0	(744145)	(80750)	(82401)	(42434)	(107394)	(47745)	(34785)	2nd installment of KST-1 & VST-1 CC Rvsn and Interest (Bill date 06/11/12)					42671142	
iii	URS in Rs	0	0	(469630)	(60240)	(92882)	(37643)	(116812)	(57199)	(43210)	3rd installment of LPPF Rvsn due to GCV based pricing (Bill date 05/10/12)					17255109	
	Pooled Energy Charges (Ps/KWh)	1.07		REBATABLE	Rs.	510739570						TOTAL PAYABLE (WR + SR) for the month					529173481
	Pooled Capacity Charges (Ps/KWh)	0.70		NON-REBATABLE	Rs.	18433911						Previous month adjustment in rebate					
	Pooled Total Charges (Ps/KWh)	1.77		Total Bill	Rs.	529173481						NET PAYABLE (Rs.)					529173481
For & on behalf of NTPC Ltd.																	



ARR & Tariff Petition for FY 2012-13

NTPC LIMITED																	
WESTERN REGION HEADQUARTERS, MUMBAI- 400093																	
LC BILL RAISED IN THE MONTH OF Jan-13																	
REF: REA/2011-12/12.0	DATED: 4-Jan-13					FAX to: Executive Engineer, Div-3					0832-2317810/2313780						
Bill No. WR-11-12 : GOA	DATED: 6-Jan-13					CUSTOMER: GOA											
Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	KGPS	JGPS	SIPAT-2	SIPAT-1	FSTPS	KhSTPS 1	TSTPS	KhSTPS 2	RSTPS	AMT(Rs)	
	Energy scheduled(KWH)	137063288	3597898	19612425	9144491	7966437	APM: 1634369 N-APM: 1063755 Lq : RLNG: 118	APM: 3919643 RLNG: 2882 N-APM: 376124	10454789	5954121	0	0	0	0	70380329		
	Energy Charges(Ps/KWH)	90.80	89.20	83.10	78.40	78.40	APM: 229.1 N-APM: 308.8	APM : 229.3 RLNG : 955.1	132.80	144.00	163.30	169.00	132.00	159.50	169.000		
01.	Capacity Charges	76217164	5230545	15681839	7137473	8614023	6003243	9373062	15562684	8688362	0	0	0	0	40822409	193330804	
02.a.	Energy Charges	124453466	3209325	16297925	7169281	6245687	7030076	10156051	13883960	8573934	0	0	0	0	118942756	315962461	
02.b.	MOPACharges	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	
04.a.	ED&Cess on APC	0	0	0	0	0			0	0	0	0	0	0	0	0	
04.b.	ED&Cess on Sales															0	
	Total (Main Bills) Rs.	200670630	8439870	31979764	14306754	14859710	13033319	19529113	29446644	17262296	0	0	0	0	159765165	509293265	
05.	REA2011-12/11.1&MOPACHgs of prevmonth	(716738)	(16736)	0	0	0	0	0	(194274)	(112306)	0	0	0	0	0	(1040054)	
06.	Vin-12/3 Energy Chgs Rvsn-(MPGATS/VT Adjustment)	5202981	121487	1184891	492116	419179			364392	213646						7998692	
07.	EC Rvsn - SP-2 (June - Oct 11), SP-1,Vin123 (Oct-11)															0	
08.	Water cess 2011 -12 (KHS-2 & Vin-1)															0	
09.																0	
10.	Gujarat Green Cess (Aug - Nov 2011)						73356	117496								190852	
11.		0														0	
12.		0					4			(4)						0	
13.		1372007		1963												1373970	
14.															(1)	(1)	
15.	LC Bill (Gross) Rs.	206528880	8544621	33166618	14798870	15278893	13106675	19646609	29616762	17363632	0	0	0	0	159765164	517816724	
16.																	
17.	Net LC Bill (Gross-Rebate)	206528880	8544621	33166618	14798870	15278893	13106675	19646609	29616762	17363632	0	0	0	0	159765164	517816724	
Details of URS																	
i	Rate of FC for URS@ (Ps/Kwh)	53.70	153.27	63.11	74.60	112.72	88.71	108.77	119.80	124.22	Credit for URS scheduled by other SEBs					(1735925)	
ii	URS in KWH	0	0	(856795)	0	0	(734048)	(500164)	0	0	3rd installment of KST-1 & VST-1 CC Rvsn and Interest (Bill date 06/11/11)					42671142	
iii	URS in Rs	0	0	(540723)	0	0	(651174)	(544028)	0	0	4th installment of LPPF Rvsn due to GCV based pricing (Bill date 05/10/11)					17255109	
		1.17		REBATABLE Rs.		558384888										TOTAL PAYABLE (WR + SR) for the month	576007050
		0.71		NON-REBATABLE Rs.		17622162										Previous month adjustment in rebate	
		1.88		Total Bill Rs.		576007050										NET PAYABLE (Rs.)	576007050
For & on behalf of NTPC Ltd.																	



Statement of Power Purchased Expenditure during the year 2012-13 RGPPL				
SR. No	Name of the Supplier/Agency	Units Purchased (Kwh)	Amount	Remarks
1	2	3	4	5
	M/sRGPPL			
1	April'2012	5837964	23363499	
			78683	filing fee 2012-13
2	May'2012	6564500	30960722	
3	June'2012	6707847	32293405	
4	July'2012	4971878	27194267	
5	August'2012	4428282	24165314	
6	September'2012		180324.45	taxes for year 2012-13
	September'2012	3030506	19729850	
	Total	31540977	157966064	

Statement of Power Purchased Expenditure during the year 2012-13- NPCIL TAPS				
SR. No	Name of the Supplier/Agency	Units Purchased (Kwh)	Amount	Remarks
1	2	3	4	5
	M/s NPCIL Tarapur, Thane			
1	April'2012	6810898	19304809	
2	May'2012	7970673	22592076	
			271680	water cess dec'11, jan 12 , feb 12
3	June'2012	7500094	21258266	
4	July'2012	7638498	21650559	
5	August'2012	6793762	19261674	
			2760	revision in insurancecharges
			118561	cessMay'12
6	September'2012	7230236	20609132	
	Total	43944161	125069517	



Statement of Power Purchased Expenditure during the year 2012-13 NPCIL KAPS				
SR. No	Name of the Supplier/Agency	Units Purchased (Kwh)	Amount	Remarks
1	2	3	4	5
	M/s NPCIL Kakrapar, Surat			
1	April'2012	10192162	23649893	
2	May'2012	10457655	24278492	
3	June'2012	9323181	21951430	
			679379	heavy water cess from April'2012
4	July'2012	9857378	23209197	
5	August'2012	7880394	18597730	
			51779	suppl. Bill
6	September'2012	5011573	11827312	
			1551731	adjustment of ROE for year 2011-12
	Total	52722343	125796943	

Statement of Power Purchased Expenditure during the year 2012-13 - Goa Energy Pvt Ltd

SR. No	Name of the Supplier/Agency	Units Purchased (Kwh)	Amount	Remarks
1	2	3	4	5
	M/s GEPL Amona			
1	April'2012	6965080	16683409	
2	May'2012	6970890	16767316	
3	June'2012	4468390	8476441	
4	July'2012	9108960	21962453	
5	August'2012	6003780	14158231	
6	September'2012	6500930	15657963	
			37593	surcharge for GEPL bill
	Total	40018030	93743406	

**Statement of Power Purchased Expenditure during the
year 2012-13 - NVVN Limited**

SR. No	Name of the Supplier/Agency	Units Purchased	Amount
		(Kwh)	
1	2	3	4
	M/s NVVNL, New Delhi		
1	April'2012		
2	May'2012	14106780	59531607
3	June'2012	6711360	24815049
4	July'2012		
5	August'2012		
6	September'2012		
	Total	20818140	84346656.4

Power Purchase from IPP(RIL)		
Month	Units	Billed Amount
Apr-12	10282164	148106786
May-12	10459508	147639974
Jun-12	10052692	128558545
Jul-12	10714156	123569935
Aug-12	10650020	135040456
Sep-12	10429296	146092033
Total	62587836	829007729



Annexure V: Month wise Transmission Charges Details – FY12-13 (H1)

Statement of Western Region Transmission Charges during year 2012-13			
Sr.	Name of the Supplier	Amount	Remarks
1	2	3	4
	M/s PGCIL WR, Nagpur		
1	April'2012	61423496	
		64188	deviation march'2012
2	May'2012	61501579	
		238744	deviation April12
3	June'2012	60271028	poc
		157262	deviation may12
		2245595	bill 3 jan'12 to march'2012
4	July'2012	61919040	
		145336	DeviationJune12
		2182971	supplimentary bills
		464108	supplimentary bills
		758296	Deviation July'12
5	August'2012	61413321	
		250378	Deviation August'12
6	September'2012	61470931	
		1446061	ULDC charges July'12 to Sep'12
	Total	375952334	

Statement of Southern Region Transmission Charges during year 2012-13			
Sr.	Name of the Supplier	Amount	Remarks
1	2	3	4
	M/s PGCIL SR, Bangalore		
1	April'2012	13221080	
		291860	deviation April'2012
2	May'2012	12969185	
3	June'2012	13064639	poc
		94644	deviation may12
		4077451	supplimentary bills
		5164007	bill 3 jan'12 to march'2012
			POC July'12&deviation July'2012
4	July'2012	11741614	
5	August'2012	11372654	
		11329	deviation July'12
6	September'2012	11324031	
		58635	deviation August'12
	Total	83391129	



Statement of KPTCL Wheeling Charges during the year 2012-13				
SR. No	Name of the Supplier/Agency	Units Purchased (Kwh)	Amount	Remarks
1	2	3	4	5
	M/s KPTCL, Bangalore (Wheeling charges)			
1	April'2012		1673246	
2	May'2012		1591820	
3	June'2012		1502092	
4	July'2012		1292418	
5	August'2012		1499703	
6	September'2012		1544801	
	Total	0	9104080	

Statement of MSETCL Wheeling Charges during the year 2012-13				
SR. No	Name of the Supplier/Agency	Units Purchased (Kwh)	Amount	Remarks
1	2	3	4	5
	M/s MSETCL, Mumbai (Wheeling charges)			
1	April'2012		1551666	
2	May'2012		2216667	
3	June'2012		2221285	
4	July'2012		2216667	
5	August'2012		2216667	
6	September'2012		2225903	
	Total	0	12648855	

SR. No	Name of the Supplier/Agency	Amount
1	2	3
	M/s POSOCO WR (fees & Charges)	
1	April'2012	482711
2	May'2012	435469
3	June'2012	487264
4	July'2012	485813
5	August'2012	484344
6	September'2012	470435
	Total	2846036



SR. No	Name of the Supplier/Agency	Amount
1	2	3
	M/s POSOCO SR (fees & Charges)	
1	April'2012	434341
2	May'2012	493512
3	June'2012	396998
4	July'2012	395870
5	August'2012	395870
6	September'2012	407579
	Total	2524170

Sr.No	Name of the Agency	Amount	Remarks
	M/s POSOCO WR (AMC SCADA)		
1	April'2012	1738006	AMC SCADA charges period 14/04/2012 -13/07/2012
2	July'2012	1928767	AMC SCADA charges period 14/07/2012 -13/10/2012
	Total	3666773	

Sr.No	Name of the Agency	Amount	Remarks
	M/s POSOCO WR (reactive charges)		
1	June'2012	7476	reactive from 09/01/2012 to 17/06/2012
	M/s MSEDCL , Mumbai		
2	April '2012	1405329	
	Total	1412805	Reactive charges

Sr.	Name of the Supplier/Agency	Amount
1	2	3
	M/s MSETCL, Mumbai (Wheeling charges)	
1	April'2012	1551666
2	May'2012	2216667
3	June'2012	2221285
4	July'2012	2216667
5	August'2012	2216667
6	September'2012	2225903



Annexure VI: RBI Bank Rate notification



भारतीय रिज़र्व बैंक

RESERVE BANK OF INDIA

www.rbi.org.in

RBI/2011-12/515

DBOD.No.Ret.BC.96/12.01.001/2011-12

April 19, 2012

All Scheduled Commercial Banks

Dear Sir,

Bank Rate

As announced in the [Monetary Policy Statement 2012-13](#), the Bank Rate stands adjusted by 50 basis points from 9.50 per cent to 9.00 per cent with effect from April 17, 2012.

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

3. Please acknowledge receipt.

Yours faithfully

(Murli Radhakrishnan)
Chief General Manager

Encl: as above

Department of Banking Operations and Development, Central Office, Centre 1, Cuffe Parade, Colaba, Mumbai - 400005

Tel No: 01-22-22189131 Fax No: 022-22150772 Email ID: [cgmic@bodoa@rbi.org.in](mailto:cgmic@bodoa.rbi.org.in)



Annexure VII: LGBR Q4 Jan-March 2013

MONTHWISE POWER AVAILABILITY Vs REQUIREMENT OF GOA

ANNEX - VI (A)
(All figures in MW)

S.No	POWER STATION	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13
1	Reliance Generation	48	48	48	48	48	48
2	OWN AVAILABILITY(from Reliance)	15	15	15	15	15	15
3	SHARE FROM KAPP-TAPS	11	14	14	14	14	14
4	SHARE FROM KSTPS + VSTPS	243	243	248	248	231	231
5	SHARE FROM KAWAS & GANDHAR	23	23	23	23	21	20
6	SHARE FROM RGPPL	18	18	18	18	18	18
7	MWIMPORT FROM (SR + ER)	100	100	100	100	100	100
8	NET POWER AVAILABLE	410	413	418	418	399	393
9	MAXIMUM UNRESTRICTED DEMAND	450	460	470	465	480	475
10	SURPLUS (+) / DEFICIT (-)	-40	-47	-52	-47	-81	-77

MONTHWISE ENERGY REQUIREMENT Vs AVAILABILITY OF GOA

ANNEX - VI (B)
(All figures in MU)

S.No	POWER STATION	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Total
1	GOA CCPP (Liq)	9	23	24	24	22	23	125
2	ENERGY AVAILABLE FROM Reliance	10	10	10	10	10	10	60
3	ENERGY FROM RGPPL	8.67	7.81	8.67	7.8	7.66	9.09	49.7
4	ENERGY AVAILABLE FROM NTPC & NPCIL SHARE IN WR	198	205	212	206	191	211	1223
5	ENERGY IMPORT FROM (SR + ER)	50	50	50	50	50	50	300
6	TOTAL ENERGY AVAILABILITY	258	265	272	266	251	272	1583
7	UNRESTRICTED ENERGY REQUIREMENT	283.5	289.8	296.1	292.95	302.4	299.25	1764
8	SURPLUS (+) / DEFICIT (-)	-26	-25	-24	-26	-52	-28	-181



MONTHWISE POWER AVAILABILITY OF CENTRAL SECTOR

ANNEX VII (A)
(All figures in MW)

S.No	POWER STATION	Jan-13	Feb-13	Mar-13
1	TAPS land 2			
a)	Installed capacity	370	370	370
b)	Gross generating capacity	320	320	320
c)	Capacity under O & M	0	0	0
d)	Gross gen. Capacity in service	370	370	370
e)	Auxiliaries consumption @ 8 %	26	26	26
f)	Outages @ 0 % of (d)	16	16	16
g)	Capacity on line	278	278	278
	DISTRIBUTION OF NET POWER			
i)	Gujarat	139	139	139
ii)	Maharashtra	139	139	139
2	TAPS A and L			
a)	Installed capacity	1080	1080	1080
b)	Gross generating capacity	750	750	750
c)	Capacity under O & M	0	0	0
d)	Gross gen. Capacity in service	750	750	750
e)	Auxiliaries consumption @ 10 %	75	75	75
f)	Outages @ 5 % of (d)	38	38	38
g)	Capacity on line	638	638	638
	DISTRIBUTION OF NET POWER			
i)	Gujarat	162	162	162
ii)	Chhattisgarh	28	28	28
iii)	Madhya pradesh	136	136	136
iv)	Maharashtra	267	267	267
v)	Goa	7	7	7
vi)	DD	5	5	5
vii)	DNH	33	33	33
3	ISAPS			
a)	Installed capacity	440	440	440
b)	Gross generating capacity	250	250	250
c)	Capacity under O & M	0	0	0
d)	Gross gen. Capacity in service	250	250	250
e)	Auxiliaries consumption @ 7.91%	20	20	20
f)	Outages @ 5 % of (d)	13	13	13
g)	Capacity on line	218	218	218
	DISTRIBUTION OF NET POWER			
i)	Gujarat	67	67	67
ii)	Chhattisgarh	0	0	0
iii)	Madhya pradesh	53	53	53
iv)	Maharashtra	76	76	76
v)	Goa	7	7	7
vi)	DD	1	1	1
vii)	DNH	8	8	8



MONTHWISE POWER AVAILABILITY OF CENTRAL SECTOR		ANNEX - VI (A/2) (All figures in MW)		
S.No	POWER STATION	Jan 13	Feb 13	Mar 13
4A	KORBA STPS STAGE-I&II UNIT 1-6			
a)	Gross generating capacity	2100	2100	2100
b)	Capacity under O & M	0	0	0
c)	Capacity in service	2100	2100	2100
d)	Auxiliaries consumption @ 7.94 % of (c)	167	151	151
e)	Plant Charge @ 1% of (c)	21	21	21
f)	Capacity on line (c-d-e)	1912	1928	1928
DISTRIBUTION OF NET POWER				
g)	Genrat	173	164	164
h)	Chhatrapati	132	135	135
i)	Madhya pradesh	475	469	469
j)	Maharashtra	521	522	522
k)	Goa	185	188	188
l)	RD	30	36	36
m)	WPDNL	13	68	68
4B	ADHA STPS (UNIT 7)			
a)	Gross generating capacity	500	500	500
b)	Capacity under O & M	0	0	0
c)	Capacity in service	500	500	500
d)	Auxiliaries consumption @ 1.91 % of (c)	96	96	96
e)	Plant Charge @ 2% of (c)	10	10	10
f)	Capacity on line (c-d-e)	484	484	484
DISTRIBUTION OF NET POWER				
g)	Genrat	96	96	96
h)	Chhatrapati	150	150	150
i)	Madhya pradesh	73	73	73
j)	Maharashtra	141	141	141
k)	Goa	3	3	3
l)	RD	1	1	1
m)	WPDNL	20	20	20
5A	VINDHYACHAL STPS STAGE I			
a)	Gross generating capacity	1200	1200	1200
b)	Capacity under O & M	0	0	0
c)	Capacity in service	1200	1200	1200
d)	Auxiliaries consumption @ 0% of (c)	112	112	112
e)	Plant Charge @ 1% of (c)	12	12	12
f)	Capacity on line (c-d-e)	1083.0	1083.0	1083.0
DISTRIBUTION OF NET POWER				
g)	Genrat	198	198	198
h)	Chhatrapati	0	0	0
i)	Madhya pradesh	382	382	382
j)	Maharashtra	411	411	411
k)	Goa	11	11	11
l)	RD	8	8	8
m)	WPDNL	52	52	52
5B	VINDHYACHAL STPS STAGE II			
a)	Gross generating capacity-II	1000	1000	1000
b)	Capacity under O & M	0	0	0
c)	Capacity in service	1000	1000	1000
d)	Auxiliaries consumption @ 7.5 % of (c)	75	75	75
e)	Plant Charge @ 1% of (c)	10	10	10
f)	Capacity on line (c-d-e)	915	915	915
DISTRIBUTION OF NET POWER				
g)	Genrat	200	200	200
h)	Chhatrapati	0	0	0
i)	Madhya pradesh	380	380	380
j)	Maharashtra	327	327	327
k)	Goa	11	11	11
l)	RD	5	5	5
m)	WPDNL	12	12	12



MONTHWISE POWER AVAILABILITY OF CENTRAL SECTOR

ANNEX - VII (A / 5)
(All figures in MW)

S.No	POWER STATION	Jan 13	Feb 13	Mar 13
5C	VINDHYACHAL STPS STAGE III			
a)	Gross generating capability-III	1000	1000	1000
b)	Capacity under O & M	0	0	0
c)	Capacity in service	1000	1000	1000
d)	Auxiliaries consumption @7.5 % of (c)	75	75	75
e)	Partial Outages @ 5 % of (c)	50	50	50
f)	Capacity on line	875	875	875
	DISTRIBUTION OF NET POWER			
i)	Gujarat	233	233	233
ii)	Chhattisgarh	02	02	02
iii)	Madhya pradesh	216	216	216
iv)	Maharashtra	274	274	274
v)	Goa	0	0	0
vi)	DD	7	7	7
vii)	DNDH	44	44	44
5	VINDHYACHAL STPS STAGES I II,III			
a)	Gross generating capability	3260	3260	3260
b)	Capacity under O & M	0	0	0
c)	Capacity in service	3260	3260	3260
d)	Auxiliaries consumption as above	263	263	263
e)	Partial Outages @ 5 % of (c)	163	163	163
f)	Capacity on line	2834	2834	2834
	DISTRIBUTION OF NET POWER			
i)	Gujarat	640	640	640
ii)	Chhattisgarh	02	02	02
iii)	Madhya pradesh	878	878	878
iv)	Maharashtra	1012	1012	1012
v)	Goa	51	51	51
vi)	DD	20	20	20
vii)	DNDH	139	139	139
6	SIPAT STAGE I & II			
a)	Gross generating capability	1000	1000	1000
b)	Capacity under O & M	0	0	0
c)	Capacity in service	1000	1000	1000
d)	Auxiliaries consumption @7.5 % of (c)	75	75	75
e)	Partial Outages @ 5 % of (c)	50	50	50
f)	Capacity on line	875	875	875
	DISTRIBUTION OF NET POWER			
i)	Gujarat	230	230	230
ii)	Chhattisgarh	138	138	138
iii)	Madhya pradesh	106	106	106
iv)	Maharashtra	274	274	274
v)	Goa	0	0	0
vi)	DD	6	6	6
vii)	DNDH	43	43	43



MONTHWISE POWER AVAILABILITY OF CENTRAL SECTOR

ANNEX - VII (A / 3)
(All figures in MW)

S.No.	POWER STATION	Jan 13	Feb 13	Mar 13
5C	<u>VINDHYACHAL STPS STAGE III</u>			
a)	Gross generating capability III	1000	1000	1000
b)	Capacity under O & M	0	0	0
c)	Capacity in service	1000	1000	1000
d)	Auxiliaries consumption @ 7.5 % of (c)	75	75	75
e)	Permit Outages @ 5 % of (c)	50	50	50
f)	Capacity on line	875	875	875
	<u>DISTRIBUTION OF NET POWER</u>			
i)	Gujarat	233	233	233
ii)	Chhattisgarh	92	92	92
iii)	Madhya pradesh	216	216	216
iv)	Maharashtra	274	274	274
v)	Goa	9	9	9
vi)	DD	7	7	7
vii)	DNH	41	41	41
5	<u>VINDHYACHAL STPS STAGES I+II+III</u>			
a)	Gross generating capability	3260	3260	3260
b)	Capacity under O & M	0	0	0
c)	Capacity in service	3260	3260	3260
d)	Auxiliaries consumption as above	267	267	267
e)	Permit Outages @ 5 % of (c)	163	163	163
f)	Capacity on line	2834	2834	2834
	<u>DISTRIBUTION OF NET POWER</u>			
i)	Gujarat	610	610	610
ii)	Chhattisgarh	92	92	92
iii)	Madhya pradesh	878	878	878
iv)	Maharashtra	1012	1012	1012
v)	Goa	51	51	51
vi)	DD	20	20	20
vii)	DNH	130	130	130
6	<u>SIPAT STAGE I & II</u>			
a)	Gross generating capability	1000	1000	1000
b)	Capacity under O & M	0	0	0
c)	Capacity in service	1000	1000	1000
d)	Auxiliaries consumption @ 7.5 % of (c)	75	75	75
e)	Permit Outages @ 5 % of (c)	50	50	50
f)	Capacity on line	875	875	875
	<u>DISTRIBUTION OF NET POWER</u>			
i)	Gujarat	230	230	230
ii)	Chhattisgarh	138	138	138
iii)	Madhya pradesh	166	166	166
iv)	Maharashtra	214	214	214
v)	Goa	9	9	9
vi)	DD	6	6	6
vii)	DNTI	41	41	41



MONTHWISE POWER AVAILABILITY OF CENTRAL SECTOR

ANNEX - VII (A/4)
(All figures in MW)

S.No	POWER STATION	Jan-13	Feb-13	Mar-13
7	KAWAS POWER STATION			
a)	Gross generating capacity	656	656	656
b)	Capacity under O & M	0	106	0
c)	Capacity in service	656	550	656
d)	Auxiliaries consumption @ 3 % of (c)	20	17	20
e)	Outages @ 5 % of (c)	33	28	33
f)	Capacity on line	604	506	604
	DISTRIBUTION OF NET POWER			
i)	Gujarat	172	144	172
ii)	Chhattisgarh	0	0	0
iii)	Madhya pradesh	129	108	129
iv)	Maharashtra	188	158	188
v)	Goa	11	10	11
vi)	DD	29	24	29
vii)	DNH	75	53	75
8	GANDHAR POWER STATION			
a)	Gross generating capacity	657	657	657
b)	Capacity under O & M	0	0	141.3
c)	Capacity in service	657	657	513
d)	Auxiliaries consumption @ 3 % of (c)	20	20	15
e)	Outages @ 5 % of (c)	33	33	26
f)	Capacity on line	605	605	472
	DISTRIBUTION OF NET POWER			
i)	Gujarat	218	218	170
ii)	Chhattisgarh	0	0	0
iii)	Madhya pradesh	108	108	84
iv)	Maharashtra	184	184	144
v)	Goa	12	12	9
vi)	DD	29	29	23
vii)	DNH	54	54	42
9	NET CENTRAL SECTOR SHARES			
i)	Gujarat	2041	1933	1963
ii)	Chhattisgarh	591	574	574
iii)	Madhya pradesh	1972	1911	1908
iv)	Maharashtra	2892	2804	2793
v)	Goa	285	266	265
vi)	DD	135	125	123
vii)	DNH	452	433	434



ARR & Tariff Petition for FY 2012-13

MONTHWISE ENERGY AVAILABILITY OF CENTRAL SECTOR

ANNEX VII (B)
(All figures in MUs)

S.No	POWER STATION	Jan-13	Feb-13	Mar-13	Total
1	TAPS 1,2				
a)	Gross energy available	214	194	214	622
b)	Auxiliaries consumption @ 8%	17	15	17	50
c)	Net energy available	197	178	197	572
	<u>DISTRIBUTION OF NET ENERGY</u>				
	i) Gujarat	98	89	98	286
	ii) Maharashtra	98	89	98	286
2	TAPS 3,4				
a)	Gross energy available	643	581	643	1867
b)	Auxiliaries consumption @10%	64	58	64	187
c)	Net energy available	579	524	579	1680
	<u>DISTRIBUTION OF NET ENERGY</u>				
	i) Gujarat	147	133	147	426
	ii) Chhatisgarh	26	23	26	75
	iii) Madhya pradesh	124	112	124	359
	iv) Maharashtra	243	219	243	704
	v) Goa	6	6	6	18
	vi) DD	5	4	5	13
	vii)DNII	30	27	30	86
3	KAPS				
a)	Gross energy available	147	266	244	707
b)	Auxiliaries consumption @ 8%	12	21	24	57
c)	Net energy available	135	245	270	650
	<u>DISTRIBUTION OF NET ENERGY</u>				
	i) Gujarat	38	70	77	185
	ii) Chhatisgarh	0	0	0	0
	iii) Madhya pradesh	34	61	68	163
	iv) Maharashtra	47	85	94	226
	v) Goa	5	8	9	22
	vi) DD	1	2	2	4
	vii)DNH	5	8	9	22



ARR & Tariff Petition for FY 2012-13

MONTHWISE ENERGY AVAILABILITY OF CENTRAL SECTOR

ANNEX - VII (B) / 1
(All figures in MWh)

S.No.	POWER STATION	Jan-13	Feb-13	Mar-13	Total
4A	COORNA STPS (UNIT-1 & 6)				
	Gross energy available	57	170	127	354
	Auxiliary consumption @ 7.94 % of (a)	109	99	109	317
	Net energy available	178	114	178	470
	DISTRIBUTION OF NET ENERGY				
	(i) Gujarat	216	198	216	630
	(ii) Chhattisgarh	178	114	178	470
	(iii) Madhya pradesh	284	209	284	777
	(iv) Maharashtra	422	301	422	1125
	(v) Goa	177	114	177	468
	(vi) DD	2	25	2	29
	(vii) DME	51	48	51	147
4B	KORSA STPS (UNIT-3)				
	Gross energy available	37	70	71	178
	Auxiliary consumption @ 7.94 % of (a)	18	19	18	55
	Net energy available	209	189	209	607
	DISTRIBUTION OF NET ENERGY				
	(i) Gujarat	40	38	40	118
	(ii) Chhattisgarh	69	37	69	175
	(iii) Madhya pradesh	32	28	32	92
	(iv) Maharashtra	79	59	79	217
	(v) Goa	2	2	2	6
	(vi) DD	-	-	2	2
	(vii) DME	12	11	12	35
5	VENHAYACHAL STPS				
5a	Gross Energy Stp I	894	894	894	2682
	AUX 9%	80	79	80	239
	ENERGY avail str I	814	793	814	2421
5b	Gross Energy Stp II	10	619	713	1392
	AUX 7.5 %	53	48	53	154
	ENERGY avail str II	677	697	677	2051
5c	Gross Energy Stp III	111	691	710	1512
	AUX 7.5%	53	48	53	154
	ENERGY avail str III	677	697	677	2051
5d	Gross Energy Stp IV	212	192	212	616
	AUX 7.5%	16	14	16	46
	ENERGY avail str IV	196	178	196	570
	Total energy available	1423	1694	1694	4811
	DISTRIBUTION OF NET ENERGY				
	(i) Gujarat	557	484	557	1598
	(ii) Chhattisgarh	91	82	91	264
	(iii) Madhya pradesh	71	61	71	203
	(iv) Maharashtra	826	744	826	2396
	(v) Goa	76	58	76	210
	(vi) DD	17	15	17	49
	(vii) DME	113	109	113	335
6	KAWA POWER STATION				
	Gross Energy	27	279	321	627
	Aux 3%	10	8	10	28
	Energy from Kozha # 5	11	10	11	32
	DISTRIBUTION OF NET ENERGY				
	(i) Gujarat	80	79	88	247
	(ii) Chhattisgarh	8	8	8	24
	(iii) Madhya pradesh	68	57	67	192
	(iv) Maharashtra	69	88	68	225
	(v) Goa	6	5	6	17
	(vi) DD	13	13	13	39
	(vii) DME	28	23	28	79



ARR & Tariff Petition for FY 2012-13

MONTHWISE ENERGY AVAILABILITY OF CENTRAL SECTOR

ANNEX - VII (B) / 3
(All figures in MU's)

S.No	POWER STATION	Jan-11	Feb-11	Mar-11	Total
7	GANDHAR POWER STATION				
	Gross Energy	283	290	329	918
	Aux. 3%	9	9	10	28
	Energy from Gandhar P.S	284	287	319	890
	DISTRIBUTION OF NET ENERGY				
	i) Gujarat	107	104	115	331
	ii) Chhatisgarh	0	0	0	0
	iii) Madhya pradesh	51	51	57	159
	iv) Maharashtra	87	84	97	271
	v) Goa	5	5	6	17
	vi) DD	14	14	15	42
	vii)DNH	25	26	29	80
8	SLP A 1-I & II (2x500 / 1x660 MW)				
	Gross Energy	1590	1433	1590	4613
	Auxiliaries consumption @ 7.94 % of (c)	126	114	126	366
	Net energy available	1464	1319	1464	4247
	DISTRIBUTION OF NET ENERGY				
	i) Gujarat	400	360	400	1160
	ii) Chhatisgarh	211	204	231	647
	iii) Madhya pradesh	278	251	278	807
	iv) Maharashtra	458	413	458	1329
	v) Goa	15	14	15	44
	vi) DD	10	9	10	30
	vii)DNH	71	64	71	206
9	NET CENTRAL SECTOR SHARE				
	i) Gujarat	1669	1516	1719	4935
	ii) Chhatisgarh	337	337	337	1011
	iii) Madhya pradesh	1590	1466	1630	4686
	iv) Maharashtra	2239	2066	2296	6602
	v) Goa	206	191	212	609
	vi) DD	40	33	42	115
	vii)DNH	318	318	355	1021



Annexure IX: Proposal for payment of Interest on Consumer Security Deposit

OFFICE OF THE CHIEF ELECTRICAL ENGINEER, PANAJI.

Para 5.13 and Para 7 of Tariff order from Joint Electricity Regulatory Commission for the financial year 2012-13 and 2011-12 for Electricity Department, Goa may please be seen filed at Pg. 2/C and 3/C.

Under Para 7 of the Tariff order, the Petitioner i.e. the Goa Electricity Department, has been directed to pay interest on consumer security deposit at the applicable bank rate (presently 8.5 % per annum) for Financial Year 2012-13 and at the bank rate of 6% for Financial year 2011-12 effective from 1st April 2012. This is in accordance with Section 47 (G) of the Electricity Act, 2003 and as specified in Regulation 25 of JERC Tariff Regulation, 2009 (Extracts placed at Pg. 2/C & 3/C respectively.)

For streamlining the payment of interest on consumer security deposit, in due compliance of the tariff order, a draft proposal for accounting procedure is submitted for approval of Government as under:

1. Presently the consumers deposits are accounted in the Public Account under Budget Head of Account:
Part III – Public Account,
K – Deposits and Advance.
(b) Deposits not bearing interest.
8443 – Civil Deposits
108- Public Work Deposit.

Where no interest is payable to the consumers on their deposits

2. In order that the consumers becomes eligible for payment of interest, the amount of deposit presently accounted for under Budget Head at Sr.1 No. 1 above has to be transferred to
(a) Deposits bearing interest
8336 – Civil Deposits
00
800-Other Deposits
- 10-Deposits of Electricity Consumers, by proposing Transfer-Entry.

For this the Electricity Department will obtain the consumerwise details of the deposits held from the concerned Divisional Officers and intimate the total figure of deposit amount as on 31.3.12 and 31.3.13 respectively to the A, C & D Section in the Directorate of Accounts with a request to propose necessary Transfer-Entry to transfer this amount to the above Budget Head of Account. Further all future consumers deposits will be directly accounted for under Budget Head (a) Deposits bearing interest, 8336 – Civil Deposits, 00-800-Other Deposits- 10-Deposits of Electricity Consumers.




3. The Electricity Department will direct the concerned Divisional Officers to calculate the consumerwise details of interest payable to the consumers on their deposits as on 31.3.2012 and 31.3.2013 at the stipulated rates of interest and intimate the total figure of interest payable on deposits as on 31.3.2012 and 31.3.2013 to either Works Audit or AC& D Section in Directorate of Accounts with a request to make necessary provision in the Supplementary Grants for the year 2012-13 under Budget Head: 2049- Interest Payment (Charged), 60-Interest on other obligation, 101- Interest on Deposits, 11-Interest on deposits of Electricity Consumers, 45-Interest (Charged) under Demand No. A 2. The adjustment towards interest on the deposits by **debiting** Budget Head 2049 – Interest Payments (Charged), 60- Interest on other obligation, 101 Interest on Deposits, 11 Interest on deposits of Electricity Consumers, 45 Interest (Charged) and **crediting** Budget Head 8335 – Civil Deposits, 00-800-Other Deposits- 10-Deposits of Electricity Consumers, Deposits of Electricity Consumers, will have to be carried out by Works Audit Section, Directorate of Accounts based on the information furnished by the Electricity Department and intimation to that effect is to be send to the Electricity Department for taking note on their records and carrying out further adjustment.
4. On receipt of intimation of the adjustment carried out by Works Audit Section, Directorate of Accounts, the Divisional Officer of Electricity Department will carry out necessary adjustment in the consumers bills for May / June and propose adjusting Transfer Entry through their monthly account by **debiting** 8336 – Civil Deposits, 00-800-Other Deposits- 10-Deposits of Electricity Consumers, Deposits of Electricity Consumers and **crediting** Budget Head 0831-Power, 05-Transmission & Distribution, 101-Power Development Scheme in Goa, 01-Sale of Power.

During the financial year 2012-2013 the amount of interest on consumers Deposits for two financial year i.e. 2011-12 and 2012-13 has to be adjusted



Comprehensive order may please be issued by the Finance Department in consultation with the Directorate of Accounts,

Submitted for examination and necessary orders by Finance Department.


(NIRMAL BRAGANZA)
Chief Electrical Engineer.

d/e
11/09/12

No. CEE/Accts-4(Bud)/12-13/ 128
Dated.- 21/09/2012.

Principal Secretary (Power)

Finance Department



Annexure X: Bill Payment Centres

Sr. No.	Name of the Bank/Co-operative Society	Location
Division - I, Panaji		
1	The Goa State Co-op. Bank Ltd.,	Marcella
2	The Goa State Co-op. Bank Ltd.,	Panaji
3	The Goa State Co-op. Bank Ltd.,	KTC Branch, Panaji
4	The Goa State Co-op. Bank Ltd.,	Caranzalem
5	The Goa State Co-op. Bank Ltd.,	Taleigao
6	The Goa State Co-op. Bank Ltd.,	Merces
7	The Mapusa Urban Co-operative Bank Ltd.,	Dwar
8	The Mapusa Urban Co-operative Bank Ltd.,	Panaji
9	The Mapusa Urban Co-operative Bank Ltd.,	Taleigao
10	The Mapusa Urban Co-operative Bank Ltd.,	St. Cruz
11	Corporation Bank	Rihandar
12	State Bank of India	Chorao
13	State Bank of India	Dona Paula
14	The Women's Co-operative Bank Ltd.,	Panaji
15	UCO Bank	Panaji
16	The Madgaon Urban Co-op. Bank Ltd.,	Panaji
17	The Madgaon Urban Co-op. Bank Ltd.,	Goa Velha
18	Indusind Bank	Panaji
19	Bank of India	Miramar
20	Citizen's Co-operative Bank Ltd.,	Panaji
21	Dena Bank	Goa Velha
22	Bhandari Urban Co-op. Credit Society Ltd.,	Panaji
23	Karmal Corlim Multipurpose Co-op. Society Ltd.,	Corlim
24	The Old Goa Urban Co-operative Society Ltd.,	Old Goa
25	The Marcel Urban Co-operative Society Ltd.,	Marcella
26	Devki Krishna Urban Co-operative Society Ltd.,	Chodan
27	Samruddhi Mahila Urban Co-operative Society Ltd.,	Tivrem, Marcella
28	The Azmane Urban Co-operative Society Ltd.,	Agassaim
29	The Azmane Urban Co-operative Society Ltd.,	Neura
30	Merces Multipurpose Co-operative Society Ltd.,	Merces
31	Vijays Bank,	St. Cruz
Division - IV, Margao		
32	Bank of India	Velim
33	Canara Bank	Chandor
34	Corporation Bank	Comorlim
35	Corporation Bank	St. Jose de Arel
36	Corporation Bank	Arlim
37	Corporation Bank	Mains
38	Corporation Bank	Varca
39	Corporation Bank	Poingnim
40	Corporation Bank	Lolim
41	Corporation Bank	Murda
42	Corporation Bank	Dandewade
43	Central Bank	Camona
44	Citizen Bank	Rawanford
45	Citizen Bank	Margao
46	Citizen Co-op. Bank	Canacona
47	Dena Bank	Loutolim
48	Dena Bank	Balli
49	The Goa State Co-op. Bank Ltd.,	Borda
50	The Goa State Co-op. Bank Ltd.,	Aquem
51	The Goa State Co-op. Bank Ltd.,	Canacona
52	The Goa State Co-op. Bank Ltd.,	Lolim
53	The Goa State Co-op. Bank Ltd.,	Poingnim
54	The Goa State Co-op. Bank Ltd.,	Cuncolim
55	The Goa State Co-op. Bank Ltd.,	Margao
56	The Goa Urban Co-op. Bank Ltd.,	Cavocessim



57	The Goa Urban Co-op. Bank Ltd.,	Nagarcem
58	The Goa Urban Co-op. Bank Ltd.,	Assulna
59	The Goa Urban Co-op. Bank Ltd.,	Cuncolim
60	The Goa Urban Co-op. Bank Ltd.,	Margao
61	IDBI bank	Margao
62	Madgaum Urban Co-op. Bank Ltd.,	Curtorim
63	Madgaum Urban Co-op. Bank Ltd.,	Margao
64	Madgaum Urban Co-op. Bank Ltd.,	Benaulim
65	Madgaum Urban Co-op. Bank Ltd.,	Court branch, Margao
66	Mapusa Urban Co-op. Bank Ltd.,	Margao
67	Mapusa Urban Co-op. Bank Ltd.,	Benaulim
68	Mapusa Urban Co-op. Bank Ltd.,	Canacona
69	Syndicate Bank	Canacona
70	Syndicate Bank	Macazana
71	State Bank of India	Santemo
72	State Bank of India	Maxem
73	UCO Bank	Fatorda
74	Union Bank of India	Carmona
75	Adarsh Krishi Sahakari V.P.S. Maryadit	Farve
76	Adarsh Krishi Sahakari V.P.S. Maryadit	Morpila
77	Adarsh Krishi Sahakari V.P.S. Maryadit	Gaondongrim
78	Chandor, Guirdolim, Cavorim Co-op. Society Ltd.,	Chandor
79	Canacona Urban Co-op. Credit Society Ltd.,	Canacona
80	Churchorem Urban Co-op. Credit Society Ltd.,	Chinchinim
81	Lolim Urban Co-op. Credit society Ltd.,	Lolim
82	Laxmi Narainva Co-op. Credit Society Ltd.	Margao
83	Navelim Taleulim Co-op. Credit society Ltd.	Navlim
84	Paroda V. K. S. Credit society Ltd.,	Paroda
85	Poingunim Co-op. Credit society Ltd.	Poingunim
86	Poingunim Co-op. Credit society Ltd.,	Gaondongrim
87	Quepem Urban Co-op. Credit Society Ltd.	Canacona
88	Quepem Urban Co-op. Credit Society Ltd.,	Paddi
89	Quepem Urban Co-op. Credit Society Ltd.,	Cuncolim
90	Quepem Urban Co-op. Credit Society Ltd.,	Belul
91	Quepem Urban Co-op. Credit Society Ltd.,	Bali
92	Quepem Urban Co-op. Credit Society Ltd.,	Aquem
93	Salcete Finance Co-op. Credit Society Ltd.,	Borda
94	Salcete Finance Co-op. Credit Society Ltd.,	Fatorda
95	Suvarna Laxmi S. Patapadi Maryadit	Margao
96	Salfalya Urban Co-op. Credit Society Ltd.,	Canacona
97	Visionaries Urban Co-op. Credit Society Ltd.,	Colva
98	Visionaries Urban Co-op. Credit Society Ltd.,	Hetalhatim
99	Visionaries Urban Co-op. Credit Society Ltd.,	Loutolim
Division - V, Bicholim		
100	State Bank of India	Qurim
101	State Bank of India	Honda
102	Goa State Co-operative Bank Ltd.,	Bicholim
103	Goa State Co-operative Bank Ltd.,	Pima
104	Goa State Co-operative Bank Ltd.,	Sanquelim
105	Goa State Co-operative Bank Ltd.,	Amona
106	Goa State Co-operative Bank Ltd.,	Pale
107	Goa State Co-operative Bank Ltd.,	Valpoi
108	Goa State Co-operative Bank Ltd.,	Paryc
109	Goa State Co-operative Bank Ltd.,	Cawnc
110	Goa State Co-operative Bank Ltd.,	Honda
111	Mapusa Urban Co-op. Bank of Goa Ltd.,	Sanquelim
112	Mapusa Urban Co-op. Bank of Goa Ltd.,	Velquem
113	Bank of India	Mayem
114	Syndicate Bank	Pale
115	Sattari Taluka Farmers Co-op. Society Ltd.,	Valpoi



116	Sattari Taluka Farmers Co-op. Society Ltd.,	Honda
117	Sattari Taluka Farmers Co-op. Society Ltd.,	Paryc
118	Sattari Taluka Farmers Co-op. Society Ltd.,	Advol
119	Sattari Taluka Farmers Co-op. Society Ltd.,	Thane
120	Sattari Taluka Farmers Co-op. Society Ltd.,	Guleli
121	Vividha Urban Co-op. Credit Society Ltd.,	Bicholim
122	Vividha Urban Co-op. Credit Society Ltd.,	Sanquelim
123	Vividha Urban Co-op. Credit Society Ltd.,	Bhamai
124	Bicholim Merchants Co-op. Credit Society Ltd.,	Bicholim
125	Navadurga V.K.S.S. Society,	Pale
126	Assonora Urban Co-op. Credit Society Ltd.,	Assonora
127	Bhumika Urban Co-op. Credit Society Ltd.,	Sal
128	Mahila Urban Co-op. Credit Society Ltd.,	Sanquelim
129	Panchasheela Urban Co-op. Credit Society Ltd.,	Assonora
130	Kudne Urban Co-op. Credit Society Ltd.,	Kudne
131	Keri Urban Co-op. Credit Society Ltd.,	Keri
132	Navali V.K.S.S. Credit Society Ltd.,	Keri
133	Velquem Urban Co-op. Credit Society Ltd.,	Velquem
134	Mulgao, Shirgao, Advalpa/V. S. Society Ltd.,	Mulgao
135	Bhandari Urban Co-op. Credit Society Ltd.,	Sanquelim
136	Janavikas Nagri Sahakari Path Saunsta Maryedit	Amona
137	Surla Kothambi V.K.S.S. Society Ltd.,	Surla
138	Bhatagram Urban Co-op. Credit Society Ltd.,	Bicholim
139	Pissurie Urban Co-op. Credit Society Ltd.,	Pissurlem
140	Maharashtra V.K.S.S. Society Ltd.,	Sanquelim
141	Pirna Urban Co-op. Credit Society Ltd.,	Bicholim
142	Pirna Urban Co-op. Credit Society Ltd.,	Assonora
143	Vishwadeep Urban Co-op. Credit Society Ltd.,	Bicholim
144	Deendayal Nagri Sahakari Pathsaunsta Mariyadit	Bicholim
Division - VI, Mapusa		
145	Mapusa Urban Co-op. Bank of Goa Ltd.	Mapusa
146	Mapusa Urban Co-op. Bank of Goa Ltd.,	Siolim
147	Mapusa Urban Co-op. Bank of Goa Ltd.,	Penha-de-Franca
148	Mapusa Urban Co-op. Bank of Goa Ltd.,	Alc-Porvorim
149	Mapusa Urban Co-op. Bank of Goa Ltd.,	Aldona
150	Mapusa Urban Co-op. Bank of Goa Ltd.,	Anjuna
151	Mapusa Urban Co-op. Bank of Goa Ltd.,	Mandrem
152	Mapusa Urban Co-op. Bank of Goa Ltd.,	Calangute
153	Mapusa Urban Co-op. Bank of Goa Ltd.,	Reis Magos
154	The Goa State Co-op. Bank Ltd.,	Market, Mapusa
155	The Goa State Co-op. Bank Ltd.,	IDC, Mapusa
156	The Goa State Co-op. Bank Ltd.,	Souza Bldg, Mapusa
157	The Goa State Co-op. Bank Ltd.,	Pirna
158	The Goa State Co-op. Bank Ltd.,	Molra
159	The Goa State Co-op. Bank Ltd.,	Pernem
160	The Goa State Co-op. Bank Ltd.,	Korgao
161	The Goa State Co-op. Bank Ltd.,	Nagzar
162	The Goa State Co-op. Bank Ltd.,	Mandrem
163	The Goa State Co-op. Bank Ltd.,	Petradevi
164	The Goa State Co-op. Bank Ltd.,	Calangute
165	The Goa State Co-op. Bank Ltd.,	Verem
166	Dena Bank	Parra
167	Dena Bank	Arpora
168	Dena Bank	Pemburda
169	Dena Bank	Gansa
170	Dena Bank	Tivim
171	Dena Bank	Aldona
172	Dena Bank	Verem
173	Bank of India	Mapusa
174	Bank of India	Ganeshpur



175	Bank of India	Mapusa
176	Bank of India	Porvorim
177	Bank of India	Saligao
178	Bank of India	Nachinola
179	Bank of India	Nerul
180	Corporation Bank	Mapusa
181	Corporation Bank	Siolim
182	Corporation Bank	Britona
183	Corporation Bank	Socorro
184	Corporation Bank	Nagca
185	Corporation Bank	Socorro (Ambima)
186	Corporation Bank	Revora
187	Corporation Bank	Chapora
188	Corporation Bank	Bastora
189	Corporation Bank	Anjuna
190	Corporation Bank	Ozarem
191	Corporation Bank	Dhargal
192	Corporation Bank	Pilerne
193	Goa Urban Co-op. Bank Ltd.,	Alto-Porvorim
194	Union Bank of India	Sangolda
195	Union Bank of India	Ucassaim
196	Indian Overseas Bank	Corjuem
197	Our Lady of Milagres Co-op. Credit Society Ltd.,	Mapusa
198	The Vaishya Urban Co-op. Credit Society Ltd.,	Mapusa
199	Para-Varia Canca Urban Co-op. Credit Society Ltd.,	Para
200	The Pirna Urban Co-op. Credit Society Ltd.,	Siolim
201	The Jana Utkarsh Urban Co-op. Credit Society Ltd.,	Khorlim
202	The Jana Utkarsh Urban Co-op. Credit Society Ltd.,	Karraswada
203	The Jana Utkarsh Urban Co-op. Credit Society Ltd.,	Para
204	The Jana Utkarsh Urban Co-op. Credit Society Ltd.,	Anjuna
205	The Jana Utkarsh Urban Co-op. Credit Society Ltd.,	Comulim
206	The Jana Utkarsh Urban Co-op. Credit Society Ltd.,	Calangute
207	Kalika Urban Co-op. Credit Society Ltd.,	Mapusa
208	Vienwakarma Manu-Maya Urban Co-op. Credit Society Ltd.,	Bastora
209	The Dhuler V.K.S.S. Society Ltd.	Mapusa
210	The Bhandari Co-op. Credit Society Ltd.,	Mapusa
211	The Bhandari Co-op. Credit Society Ltd.,	Pernem
212	The Porvorim Urban Co-op. Credit Society Ltd.,	Porvorim
213	The Saha Uddhar Urban Co-op. Credit Society Ltd.,	Porvorim
214	The Saha Uddhar Urban Co-op. Credit Society Ltd.,	Chapora
215	The Saha Uddhar Urban Co-op. Credit Society Ltd.,	Colvale
216	The Saha Uddhar Urban Co-op. Credit Society Ltd.,	Malim
217	The Saha Uddhar Urban Co-op. Credit Society Ltd.,	Belim
218	The Pirna Urban Co-op. Credit Society Ltd.,	Saligao
219	The Pirna Urban Co-op. Credit Society Ltd.,	Pirna
220	The Tivim Sirsai M. P. Co-op. Credit Society Ltd.,	Tivim
221	The Aldona Urban Co-op. Credit Society Ltd.,	Aldona
222	The Assonora Urban Co-op. Credit Society Ltd.,	Colvale
223	Panchasheela Urban Co-op. Credit Society Ltd.,	Tivim
224	The Dhagwati Urban Co-op. Society Ltd.	Pemem
225	Pednem Taluka Farmers Credit Co-op. Society Ltd.,	Pemem
226	Dhargal Urban Co-op. Credit Society Ltd.,	Dhargal
227	Shaleshwar Kamleshwar Nagri Sahakari Credit Society Ltd.,	Pernem
228	The Janaseva Urban Co-op. Credit Society Ltd.,	Mandrem
Division - VII, Curchorem		
229	The Goa Urban Co-op. Bank Ltd.,	Curchorem
230	Mapusa Urban Co-op. Bank Ltd.,	Curchorem
231	Mapusa Urban Co-op. Bank Ltd.,	Quepari
232	Mapusa Urban Co-op. Bank Ltd.,	Sanguem
233	The Goa State Co-op. Bank Ltd.,	Curchorem



234	The Goa State Co-op. Bank Ltd.,	Quepem
235	The Goa State Co-op. Bank Ltd.,	Sanguem
236	The Goa State Co-op. Bank Ltd.,	Kivona
237	The Madgaum Urban Co-op. Bank Ltd.	Sanguem
238	Corporation Bank	Mollem
239	Curchorem Urban Co-op. Credit Society Ltd.,	Curchorem
240	Curchorem Urban Co-op. Credit Society Ltd.,	Amhatlim
241	Curchorem Urban Co-op. Credit Society Ltd.,	Sanguem
242	Quepem Urban Co-op. Credit Society Ltd.,	Quepem
243	Quepem Urban Co-op. Credit Society Ltd.,	Malkamem
244	Quepem Urban Co-op. Credit Society Ltd.,	Collem
245	Quepem Urban Co-op. Credit Society Ltd.,	Neturim
246	Quepem Urban Co-op. Credit Society Ltd.,	Curchorem
247	Quepem Urban Co-op. Credit Society Ltd.,	Quepem
248	Samruddhi Urban Co-op. Credit Society Ltd.,	Tisk-Dabal
249	Samruddhi Urban Co-op. Credit Society Ltd.,	Kalay
250	Janseva Urban Co-op. Credit Society Ltd.,	Kevona
251	Janseva Urban Co-op. Credit Society Ltd.,	Waddom, Sanguem
252	Janseva Urban Co-op. Credit Society Ltd.,	Sanguem
253	Adarsh Krishi Sahakari V.P.S. Maryadit	Kevona
254	Paroda V.K.S. Society,	Paroda
255	Bhandari Urban Co-op. Credit Society Ltd.,	Curchorem
Division - X, Ponda		
256	Bank of Maharashtra	Madkai
257	Bank of Maharashtra	Kavale
258	UCO Bank	Mardol
259	The Goa State Co-op. Bank Ltd.,	Ponda
260	The Goa State Co-op. Bank Ltd.,	Dharbondora
261	The Goa State Co-op. Bank Ltd.,	Keri
262	The Goa State Co-op. Bank Ltd.,	Tisk Usgao
263	The Goa State Co-op. Bank Ltd.,	Marcella
264	The Goa State Co-op. Bank Ltd.,	Shiroda
265	The Goa State Co-op. Bank Ltd.,	Bethora
266	The Goa State Co-op. Bank Ltd.,	Durbhat
267	State Bank of India	Borim, Shiroda
268	The Goa Urban Co-op. Bank Ltd.,	Ponda
269	Syndicate Bank	Pale
270	Syndicate Bank	Kavale
271	Bank of India	Shiroda
272	Bicholim Urban Co-op. Bank Ltd.,	Ponda
273	State Bank of Mysore	Khaircepar
274	Mapusa Urban Co-op. Bank Ltd.,	Tisk Usgao
275	Mapusa Urban Co-op. Bank Ltd.,	Ponda
276	Dhavalii Urban Co-op. Credit Society Ltd.,	Dhavalii
277	Dhavalii Urban Co-op. Credit Society Ltd.,	Usgao
278	Shiroda Urban Co-op. Credit Society Ltd.,	Shiroda
279	Shiroda Urban Co-op. Credit Society Ltd.,	Ponda
280	Shiroda Urban Co-op. Credit Society Ltd.,	Kundal
281	Shiroda Urban Co-op. Credit Society Ltd.,	Madkai
282	Shiroda Urban Co-op. Credit Society Ltd.,	Usgao
283	Marcella Urban Co-op. Credit Society Ltd.,	Marcella
284	Antruz Mahal Co-op. Credit Society Ltd.,	Ponda
285	Quepem Urban Co-op. Credit Society Ltd.,	Ponda
286	Quepem Urban Co-op. Credit Society Ltd.,	Shiroda
287	Phoma Adcona V.K.S.S. Society	Banastari
288	Deendeyal Maryadit Pathsaunstan	Khadpaband, Ponda
289	Tisk Usgao Urban Co-op. Credit Society Ltd.,	Tisk Usgao
290	Borim Urban Co-op. Credit Society Ltd.	Borim
291	Usgao Vikas Seva Society,	Usgao
292	Dharbondora V.K.S.S. Society,	Dharbondora



6

293	Samruddhi Urban Co-op. Credit Society Ltd.,	Sacorda
294	Bhandari Urban Co-op. Credit Society Ltd.,	Ponda
295	Savoiverem V.K.S.S. Society	Savoiverem
296	Shree Krishna V.K.S.S. Society	Marcela
297	Navodit Veinac Print V.K.S.S. Society,	Mardol
298	V.P.K. Urban Co-op. Credit Society Ltd.,	Ponda
299	V.P.K. Urban Co-op. Credit Society Ltd.,	Mardol
300	Jeejamata Urban Co-op. Credit Society Ltd.,	Ponda
301	Marcel Mahila Urban Co-op. Credit Society Ltd.,	Marcella
302	Navacurga V.K.S.S. Society,	Mardol
Division - XI, Vasco		
303	The Goa State Co-op. Bank Ltd.,	Mundol Vasco
304	The Goa State Co-op. Bank Ltd.,	New Vaddem, Vasco
305	The Goa State Co-op. Bank Ltd.,	Cortalim
306	The Goa State Co-op. Bank Ltd.,	Zarinagar
307	The Goa State Co-op. Bank Ltd.,	Headland Sada
308	The Mapusa Urban Co-operative Bank Ltd.,	Vasco
309	The Citizen Co-operative Bank Ltd.,	Vasco
310	Indian Bank	Criticalim
311	UCC Bank	Bogmalo
312	Bank of India	Sancoale
313	State Bank of India	Mormugao
314	The Sahakar Urban Co-op. Credit Society Ltd.,	Vasco
315	The Vaddem Nagar Urban Co-op. Credit Society Ltd.,	New Vaddem, Vasco
316	The Sada Urban Co-op. Credit Society Ltd.,	Headland Sada
317	The Sada Urban Co-op. Credit Society Ltd.,	Mormugao
318	Bhandari Co-op. Credit Society Ltd.,	Vasco
Division - XIV, Verna		
319	The Goa State Co-op. Bank Ltd.,	Nagao-Verna
320	The Goa State Co-op. Bank Ltd.,	Cansaulim
321	Corporation Bank	Velsao
322	Corporation Bank	Utorda
323	Mapusa Urban Co-op. Bank Ltd.,	Cansaulim

Bank authorised after JERC tariff (July 2012)

1	HDFC Bank Ltd.	Nuven
2	HDFC Bank Ltd.	Cansaulim
3	HDFC Bank Ltd.	Majorda
4	ICICI Bank	Caranzalem
5	ICICI Bank	Panaji
6	ICICI Bank	Patto Plaza, Panaji
7	ICICI Bank	Taleigao
8	ICICI Bank	Curcolem



ARR & Tariff Petition for FY 2012-13

Annexure XI: FPPCA Charges for 1st Quarter

Sr.	Category	Jul		Aug		Sep	
No.		FPA charges Levied	FPA charges collected	FPA charges Levied	FPA charges collected	FPA charges Levied	FPA charges collected
	<u>A. LOW TENSION SUPPLY</u>						
1	(a) LTD/Domestic	0.00	0.00	0.01	0.00	0.06	0.05
	(b) LTD/L.I.G.	0.00	0.00	0.00	0.00	0.00	0.00
	(c) LTD Domestic Mixed	0.00	0.00	0.00	0.00	0.00	0.00
2	LTC/Commercial	0.00	0.00	0.01	0.01	0.04	0.04
3	(a) LTP/Motive Power	0.00	0.00	0.01	0.01	0.03	0.03
	(b) LTP Mixed (Hotel Industries)	0.00	0.00	0.00	0.00	0.00	0.00
	(c) LTP Ice Manufacturing	0.00	0.00	0.00	0.00	0.01	0.01
4	LTAG/Agriculture	0.00	0.00	0.00	0.00	0.00	0.00
5	(a) LTPL (Public lighting)	0.00	0.00	0.00	0.00	0.00	0.00
	(b) Frozen Arrears (Street light)	0.00	0.00	0.00	0.00	0.00	0.00
6	LTPWW/Public Water works	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00	0.00
	<u>B. HIGH TENSION SUPPLY</u>	0.00	0.00	0.00	0.00	0.00	0.00
7	HT (Mixed)	0.12	0.11	0.18	0.17	0.16	0.14
8	HTI (Industrial) Ferro Metallurgical/ Steel Melting/Power Intensive.	0.43	0.43	1.32	1.32	0.87	0.87
9	HTI Industrial	0.27	0.24	0.46	0.42	0.66	0.62
10	HTAG (Agriculture)	0.00	0.00	0.00	0.00	0.00	0.00
11	EHTI (Industrial)	0.14	0.14	0.14	0.14	0.13	0.13
12	HT P.W.W. & Sewage system	0.06	0.05	0.12	0.06	0.17	0.06
13	HT. M.E.'s Defence Estt.	0.02	0.02	0.03	0.03	0.03	0.03
14	HTI (Steel Rolling)	0.01	0.01	0.10	0.10	0.07	0.07
15	HTI / IT High Tech	0.00	0.00	0.07	0.07	0.07	0.07
16	HTI/Ice Manufacturing	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00	0.00
	<u>C. TEMPORARY SUPPLY</u>	0.00	0.00	0.00	0.00	0.00	0.00
20	(a) L.T. Temporary	0.00	0.00	0.00	0.00	0.00	0.00
	(b) H.T. Temporary	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00	0.00
	Total (A+B+C)	1.07	1.01	2.45	2.34	2.30	2.11



Annexure XII: FPPCA Computation Sheets (Q1, Q2 & Q3)



Fuel and Power Purchase Cost Adjustment (FPPCA) Computations

Computation of FPPCA for First Quarter from April 2012 to June 2012

Levy of FPPCA for 1st Quarter (April-June 2012) in the month of
August, September and October 2012

ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA

Office of Chief Electrical Engineer

Designated Officer: Shri. B. Nigalye, Executive Engineer(IPM)

Vidyut Bhavan, 3rd Floor, Panaji, Goa - 403001

Tel: 0832-2227009, Fax: 0832-2224680, Email: aeipm@yahoo.co.in

Website Address: <http://electricity.goa.gov.in/>



ARR & Tariff Petition for FY 2012-13

Computation of P _{Actual} for First Quarter from April 2012 to June 2012									
Sr. No.	Approved Power Purchase Sources	Apr-12		May-12		Jun-12		Total	
		MUs	Total Cost (Rs.Crs)	MUs	Total Cost (Rs.Crs)	MUs	Total Cost (Rs.Crs)	MUs	Total Cost (Rs.Crs)
1	2	3	4	5	6	7	8	9	10
	Central Sector Stations								
I	NTPC	246.40	47.65	261.388	53.69	237.76	49.66	745.55	151.00
	<i>KORBA - III</i>	110.177	15.09	116.308	16.48	104.09	16.86	330.58	48.43
	<i>KSTPS</i>	3.478	0.76	3.608	0.87	3.62	0.89	10.71	2.52
	<i>Sipat - Stage 1</i>	1.539	0.57	6.094	1.42	8.83	2.25	16.46	4.24
	<i>Sipat - Stage 2</i>	7.883	1.45	8.180	1.74	7.30	1.66	23.36	4.85
	<i>VSTPS - I</i>	21.140	4.78	20.756	4.76	20.99	4.51	62.88	14.05
	<i>VSTPS - II</i>	8.886	2.29	9.287	2.00	7.46	1.64	25.64	5.93
	<i>VSTPS - III</i>	8.122	2.08	8.140	2.94	7.83	1.95	24.09	6.97
	<i>RSTPS</i>	65.109	13.46	69.179	15.68	58.73	12.47	193.02	41.62
	<i>RGPP</i>	5.838	2.34	6.565	3.10	6.71	3.23	19.11	8.66
	<i>GGPP*</i>	6.126	2.25	7.314	2.59	5.90	2.02	19.34	6.87
	<i>KGPP*</i>	7.245	2.51	5.627	2.07	5.64	2.11	18.51	6.69
	<i>GGPP*(URS)</i>	0.13	0.01	0.23	0.02	0.17	0.02	0.52	0.06
	<i>KGPP*(URS)</i>	0.72	0.06	0.11	0.01	0.50	0.04	1.33	0.12
II	NPCIL	17.00	4.30	18.43	4.71	16.82	4.39	52.25	13.40
	<i>KAPS</i>	10.19	2.36	10.46	2.43	9.32	2.26	29.97	7.06
	<i>TAPS</i>	6.81	1.93	7.97	2.29	7.50	2.13	22.28	6.34
B	Within State								
I	CO- GENERATION	7.69	1.84	8.42	2.02	6.12	1.24	22.22	5.11
	<i>Goa Energy Private Limited</i>	6.97	1.67	6.97	1.68	4.47	0.85	18.40	4.19
	<i>Goa Sponge & Power Limited</i>	0.72	0.17	1.45	0.35	1.65	0.40	3.82	0.92
	<i>Sesa Goa Limited</i>	-	-	-	-	-	-	-	-
II	IPP	-	-	-	-	-	-	-	-
	<i>Reliance Infra</i>	-	-	-	-	-	-	-	-
III	Renewable Energy Sources	-	-	-	-	-	-	-	-
	<i>Non-Solar</i>	-	-	-	-	-	-	-	-
	<i>Solar</i>	-	-	-	-	-	-	-	-
C	Others	30.41	9.46	23.30	9.37	11.74	4.43	65.44	23.26
I	Power Purchase from Pool / Grid *	30.41	9.46	9.19	3.41	5.03	1.95	44.63	14.82
II	Power Purchase from trader(NVVNL)	-	-	14.11	5.95	6.71	2.48	20.82	8.43
								-	-
	Total Power Purchase	301.50	63.25	311.53	69.79	272.44	59.73	885.47	192.77

* Limited to actual UI rate or rate corresponding to 49.7 Hz whichever is lower

Computation of S _{Bulk} for First Quarter from April 2012 to June 2012									
Sr. No.	Particulars	Apr-12		May-12		Jun-12		Total	
		MUs	Total Revenue (Rs.Crs)	MUs	Total Revenue (Rs.Crs)	MUs	Total Cost (Rs.Crs)	MUs	Total Revenue (Rs.Crs)
1	2	3	4	5	6	7	8	9	10
a	Sale of Power to Exchanges	-	-	-	-	-	-	-	-
b	Sale of Power to Pool/ Grid	-	-	3.668	0.657	6.140	2.125	9.808	2.782



Computation of FPPCA for First Quarter from April 2012 to June 2012			
Sr. No.	Particulars	Total for the Quarter	
		Unit	Amount/ Units
1	2	3	4
Numerator = (P_{Actual} - S_{Bulk})			
1	Actual Power Purchase Cost	Rs.Crs	193
2	Actual Revenue from Sale of Power to Other Persons	Rs.Crs	3
3	Difference of Costs P_{Actual} - S_{Bulk} : (1-2)		190
Denominator = (P_{Actual} - S_{Bulk})			
4	Actual Energy Units procured from Approved Sources - X	MUs	885
5	Actual Energy Units procured from Exchanges, Pool Purchase or any other source - A	MUs	65
6	Difference of Energy (X-A) : (4-5)	MUs	820
7	Approved Inter-State Transmission Losses (in %) - T	%	3.56%
8	Transmission Loss (C = {X-A}*T/100)	MUs	29
9	Actual Sale of Power to persons other than Utility consumers - X _s	MUs	10
10	Approved Distribution Losses (in %) - Y	%	12.50%
11	Net Energy (B = 1-Y/100)	%	87.50%
12	Actual Energy units billed to BPL & Agriculture (Categories at Sr. 1(b), Sr.4, Sr.10) - Z	MUs	5.00
13	Net Energy Available for Sales [{X-C}-X_s]*b]-Z	MUs	736
14	Actual Per Unit Rate of Power Purchase (Numerator/ Denominator)* 1000 or (Sr.3/Sr.13)*1000	Paisa/ unit	258.25
15	Approved Per unit Rate of Power Purchase for use in FPPCA (Chapter 9, Pt 6, page 154 of Tariff Order)	Paisa/ unit	246
16	Per unit of FPPCA (Sr.14-Sr.15) recoverable from Consumers	Paisa/ unit	12.74



Levy of FPPCA for 1st Quarter (April-June 2012) in the month of August, September and October 2012			
Sr. No.	Category of Consumer	'K' Factor	Monthly FPPCA (Paisa/ Unit)
A	LOW TENSION SUPPLY		
1(a)	Tariff LTD/Domestic and Non-Commercial		
	<i>First 60 Units</i>	0.37	5.00
	<i>61 to 250 Units</i>	0.50	6.00
	<i>251 to 500 Units</i>	0.81	10.00
	<i>Above 500 Units</i>	0.95	12.00
1(b)	Tariff LTD/Low Income Group	0.00	-
1(c)	Tariff LTD/Domestic Mixed		
	<i>First 400 Units</i>	0.80	10.00
	<i>Above 400 Units</i>	1.10	14.00
2	Tariff-LTC/Commercial		
	<i>First 100 Units</i>	0.91	12.00
	<i>From 101 to 1000 Units</i>	1.16	15.00
	<i>All Consumption above 1000 Units</i>	1.26	16.00
3 (a)	Tariff-LTP/Motive Power		
	<i>Connected Load upto 50 HP</i>	0.98	12.00
	<i>Connected Load above 50 HP</i>	1.13	14.00
3 (b)	Tariff-LTP/ Ice Manufacturing		
	<i>Connected Load upto 100 HP</i>	1.13	14.00
3(c)	Tariff-LTP/Mixed (Hotel Industries)	1.18	15.00
4	Tariff-LTAG/Agriculture	0.00	-
5	Tariff-LTPL/Public Lighting	0.92	12.00
6	Tariff-LT PWW/Public Water Works	1.18	15.00
B	HIGH TENSION SUPPLY		
7	Tariff HT-Mixed	1.24	16.00
8 (a)	Tariff HTI/Industrial	1.23	16.00
8 (b)	Tariff HTI/Hotel Industries	1.23	16.00
8 (c)	Tariff HTI/Ice Manufacturing	1.14	15.00
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)		
	<i>First 300 Units/kVA</i>	1.14	15.00
	<i>Next 200 Units/kVA</i>	1.21	15.00
	<i>Above 500 Units/kVA</i>	1.29	16.00
10	Tariff-HTAG/Agriculture	0.00	-
11	EHTI/Industrial	1.19	15.00
12	H.T. PW/Public Water Supply and Sewage	1.03	13.00
13	H.T. MES/Defence Establishments	1.04	13.00
14	H.T. Industrial (Steel Rolling)		
	<i>First 200 Units/kVA</i>	1.13	14.00
	<i>Next 100 Units/kVA</i>	1.26	16.00
	<i>Above 300 Units/kVA</i>	1.48	19.00
15	Tariff HT-Industries (IT High Tech).	1.15	15.00
C	TEMPORARY SUPPLY		
16	Tariff-LT/Temporary	0.00	-
17	Tariff-HT/Temporary	0.00	-



Fuel and Power Purchase Cost Adjustment (FPPCA) Computations

Computation of FPPCA for Second Quarter from July 2012 to September 2012

Levy of FPPCA for 2nd Quarter (July-September 2012) in the month of
November, December 2012 and January 2013

ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA
Office of Chief Electrical Engineer
Designated Officer: Shri. B. Nigalye, Executive Engineer(IPM)
Vidyut Bhavan, 3rd Floor, Panaji, Goa - 403001
Tel: 0832-2227009, Fax: 0832-2224680, Email: aeipm@yahoo.co.in
Website Address: <http://electricity.goa.gov.in/>



ARR & Tariff Petition for FY 2012-13

Computation of P _{Actual} for Second Quarter from July'2012 to September'2012									
Sr. No.	Approved Power Purchase Sources	Jul-12		Aug-12		Sep-12		Total	
		MUs	Total Cost (Rs.Crs)	MUs	Total Cost (Rs.Crs)	MUs	Total Cost (Rs.Crs)	MUs	Total Cost (Rs.Crs)
1	2	3	4	5	6	7	8	9	10
	Central Sector Stations								
I	NTPC	282.57	54.57	277.55	64.77	244.76	60.40	804.88	179.74
	KORBA - III	3.78	0.86	3.79	0.94	3.29	0.96	10.86	2.77
	KSTPS	148.48	21.68	140.05	23.29	122.23	24.49	410.76	69.46
	Sipat - Stage 1	8.31	2.60	12.33	3.52	12.11	3.85	32.75	9.97
	Sipat - Stage 2	7.40	1.94	5.80	1.70	4.75	1.43	17.95	5.07
	VSTPS - I	24.68	5.18	18.92	4.31	16.51	7.33	60.11	16.82
	VSTPS - II	5.71	1.23	7.25	1.67	7.05	1.93	20.01	4.83
	VSTPS - III	6.75	1.72	4.83	1.43	6.24	1.92	17.83	5.06
	RSTPS	60.62	12.60	66.42	20.39	56.70	11.74	183.74	44.73
	RGPP	4.97	2.72	4.43	2.42	3.03	1.99	12.43	7.13
	GGPP*	7.86	2.84	6.67	2.56	6.41	2.46	20.93	7.86
	KGPP*	4.00	1.20	7.07	2.54	6.45	2.30	17.52	6.04
II	NPCIL	17.50	4.49	14.67	3.79	12.23	3.24	44.40	11.52
	KAPS	9.86	2.32	7.88	1.86	5.01	1.18	22.75	5.37
	TAPS	7.64	2.17	6.79	1.93	7.22	2.06	21.66	6.16
B	Within State								
I	CO- GENERATION	10.60	2.55	6.42	1.52	7.48	1.81	24.50	5.87
	Goa Energy Private Limited	9.11	2.20	6.00	1.42	6.50	1.57	21.61	5.18
	Goa Sponge & Power Limited	1.49	0.35	0.42	0.10	0.98	0.24	2.89	0.69
	Sesa Goa	-	-	-	-	-	-	-	-
II	IPP	-	-	-	-	-	-	-	-
	Reliance Infra	-	-	-	-	-	-	-	-
III	Renewable Energy Sources	-	-	-	-	-	-	-	-
	Non-Solar	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	-	-	-
C	Others	1.67	0.65	3.21	1.24	10.59	2.64	15.46	4.53
I	Power Purchase from Pool / Grid *	1.67	0.65	3.21	1.24	10.59	2.64	15.46	4.53
II	Power Purchase from Exchanges							-	-
								-	-
	Total Power Purchase	312	62	302	71	275	68	889	202

* Limited to actual UI rate or rate corresponding to 49.7 Hz whichever is lower

Computation of S _{Bulk} for Second Quarter from July 2012 to September 2012									
Sr. No.	Particulars	Jul-12		Aug-12		Sep-12		Total	
		MUs	Total Revenue (Rs.Crs)	MUs	Total Revenue (Rs.Crs)	MUs	Total Cost (Rs.Crs)	MUs	Total Revenue (Rs.Crs)
1	2	3	4	5	6	7	8	9	10
a	Sale of Power to Exchanges	21.42	8.46	12.93	3.08	3.56	0.54	37.91	12.08
b	Sale of Power to Pool/ Grid	17.00	5.52	7.49	2.19	10.32	2.80	34.81	10.50
	Total	38	14	20	5	14	3	72.72	22.58



Computation of FPPCA for Second Quarter from July 2012 to September 2012			
Sr. No.	Particulars	Total for the Quarter	
		Unit	Amount/ Units
1	2	3	4
Numerator = (P_{Actual} - S_{Bulk})			
1	Actual Power Purchase Cost	Rs.Crs	202
2	Actual Revenue from Sale of Power to Other Persons	Rs.Crs	23
3	Difference of Costs P_{Actual} - S_{Bulk} : (1-2)		179
Denominator = (P_{Actual} - S_{Bulk})			
4	Actual Energy Units procured from Approved Sources - X	MUs	889
5	Actual Energy Units procured from Exchanges, Pool Purchase or any other source - A	MUs	15
6	Difference of Energy (X-A) : (4-5)	MUs	874
7	Approved Inter-State Transmission Losses (in %) - T	%	3.56%
8	Transmission Loss (C = {X-A}*T/100)	MUs	31
9	Actual Sale of Power to persons other than Utility consumers - X _s	MUs	73
10	Approved Distribution Losses (in %) - Y	%	12.50%
11	Net Energy (B = 1-Y/100)	%	87.50%
12	Actual Energy units billed to BPL & Agriculture (Categories at Sr. 1(b), Sr.4, Sr.10) - Z	MUs	1
13	Net Energy Available for Sales [{X-C}-X_s]*b]-Z	MUs	686
14	Actual Per Unit Rate of Power Purchase (Numerator/ Denominator)* 1000 or (Sr.3/Sr.13)*1000	Paisa/ unit	260.96
15	Approved Per unit Rate of Power Purchase for use in FPPCA (Chapter 9, Pt 6, page 154 of Tariff Order)	Paisa/ unit	245.51
16	Per unit of FPPCA (Sr.14-Sr.15) recoverable from Consumers	Paisa/ unit	15.45



Levy of FPPCA for 2nd Quarter (July-September 2012) in the month of November, December 2012 and January 2013			
Sr. No.	Category of Consumer	'K' Factor	Monthly FPPCA (Paisa/ Unit)
A	LOW TENSION SUPPLY		
1(a)	Tariff LTD/Domestic and Non-Commercial		
	<i>First 60 Units</i>	0.37	6.00
	<i>61 to 250 Units</i>	0.50	8.00
	<i>251 to 500 Units</i>	0.81	13.00
	<i>Above 500 Units</i>	0.95	15.00
1(b)	Tariff LTD/Low Income Group	0.00	-
1(c)	Tariff LTD/Domestic Mixed		
	<i>First 400 Units</i>	0.80	12.00
	<i>Above 400 Units</i>	1.10	17.00
2	Tariff-LTC/Commercial		
	<i>First 100 Units</i>	0.91	14.00
	<i>From 101 to 1000 Units</i>	1.16	18.00
	<i>All Consumption above 1000 Units</i>	1.26	19.00
3 (a)	Tariff-LTP/Motive Power		
	<i>Connected Load upto 50 HP</i>	0.98	15.00
	<i>Connected Load above 50 HP</i>	1.13	17.00
3 (b)	Tariff-LTP/ Ice Manufacturing		
	<i>Connected Load upto 100 HP</i>	1.13	17.00
3(c)	Tariff-LTP/Mixed (Hotel Industries)	1.18	18.00
4	Tariff-LTAG/Agriculture	0.00	-
5	Tariff-LTPL/Public Lighting	0.92	14.00
6	Tariff-LT PWW/Public Water Works	1.18	18.00
B	HIGH TENSION SUPPLY		
7	Tariff HT-Mixed	1.24	19.00
8 (a)	Tariff HTI/Industrial	1.23	19.00
8 (b)	Tariff HTI/Hotel Industries	1.23	19.00
8 (c)	Tariff HTI/Ice Manufacturing	1.14	18.00
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)		
	<i>First 300 Units/kVA</i>	1.14	18.00
	<i>Next 200 Units/kVA</i>	1.21	19.00
	<i>Above 500 Units/kVA</i>	1.29	20.00
10	Tariff-HTAG/Agriculture	0.00	-
11	EHTI/Industrial	1.19	18.00
12	H.T. PW/Public Water Supply and Sewage	1.03	16.00
13	H.T. MES/Defence Establishments	1.04	16.00
14	H.T. Industrial (Steel Rolling)		
	<i>First 200 Units/kVA</i>	1.13	17.00
	<i>Next 100 Units/kVA</i>	1.26	19.00
	<i>Above 300 Units/kVA</i>	1.48	23.00
15	Tariff HT-Industries (IT High Tech).	1.15	18.00
C	TEMPORARY SUPPLY		
16	Tariff-LT/Temporary	0.00	-
17	Tariff-HT/Temporary	0.00	-



Fuel and Power Purchase Cost Adjustment (FPPCA) Computations

Computation of FPPCA for Third Quarter from October 2012 to
December 2012

Levy of FPPCA for 3rd Quarter (Oct-December 2012) in the month of February
2013, March 2013 and April 2013

ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA
Office of Chief Electrical Engineer
Designated Officer: Shri. B. Nigalye, Executive Engineer(IPM)
Vidyut Bhavan, 3rd Floor, Panaji, Goa - 403001
Tel: 0832-2227009, Fax: 0832-2224680, Email: aeipm@yahoo.co.in
Website Address: <http://electricity.goa.gov.in/>



ARR & Tariff Petition for FY 2012-13

Computation of P _{Actual} for Third Quarter from October'2012 to December'2012									
Sr. No.	Approved Power Purchase Sources	Oct-12		Nov-12		Dec-12		Total	
		MUs	Total Cost (Rs.Crs)	MUs	Total Cost (Rs.Crs)	MUs	Total Cost (Rs.Crs)	MUs	Total Cost (Rs.Crs)
1	2	3	4	5	6	7	8	9	10
	Central Sector Stations								
I	NTPC	248.73	60.33	265.23	54.47	271.55	59.16	785.51	174.05
	KORBA - III	3.30	0.87	3.35	0.77	3.60	0.89	10.24	2.53
	KSTPS	117.57	24.54	143.33	23.62	137.06	26.00	397.97	74.16
	Sipat - Stage 1	11.69	3.15	10.18	3.17	10.45	3.03	32.32	9.35
	Sipat - Stage 2	5.69	1.49	5.88	1.76	5.95	1.74	17.52	4.99
	VSTPS - I	24.65	5.98	19.77	4.21	18.76	3.60	63.18	13.79
	VSTPS - II	8.94	2.98	8.44	1.69	9.14	1.58	26.53	6.26
	VSTPS - III	8.02	2.22	7.18	1.70	7.97	1.63	23.16	5.54
	RSTPS	54.26	12.39	56.90	12.51	70.38	15.98	181.55	40.88
	RGPP	3.29	2.06	1.69	1.55	2.47	1.56	7.46	5.18
	GGPP*	5.47	2.34	5.16	2.15	3.80	1.91	14.43	6.41
	KGPP*	5.84	2.30	3.35	1.43	1.96	1.25	11.15	4.98
	FSTPS		(0.00)		(0.09)				
	TSTPS								
	KHTPS								
II	NPCIL	15.33	4.05	17.78	4.58	14.81	3.87	47.92	12.50
	KAPS	9.85	2.33	10.07	2.38	6.93	1.64	26.86	6.34
	TAPS	5.48	1.73	7.70	2.20	7.88	2.24	21.06	6.16
B	Within State								
I	CO- GENERATION	9.16	2.20	5.53	1.32	4.15	1.00	18.83	4.52
	Goa Energy Private Limited	8.28	1.99	4.97	1.19	3.56	0.85	16.80	4.03
	Goa Sponge & Power Limited	0.88	0.21	0.56	0.13	0.59	0.14	2.03	0.49
	Sesa Goa	-	-	-	-	-	-	-	-
II	IPP	-	-	-	-	-	-	-	-
	Reliance Infra	-	-	-	-	-	-	-	-
III	Renewable Energy Sources	-	-	-	-	-	-	-	-
	Non-Solar	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	-	-	-
C	Others	18.87	6.60	2.50	0.60	5.44	1.45	26.81	8.65
I	Power Purchase from Pool / Grid *	18.87	6.60	2.50	0.60	5.44	1.45	26.81	8.65
II	Power Purchase from Exchanges								-
									-
	Total Power Purchase	292	73	291	61	296	65	879	200

* Limited to actual UI rate or rate corresponding to 49.7 Hz whichever is lower

Computation of P _{Actual} for First Quarter from October'2012 to December'2012									
Sr. No.	Particulars	Oct-12		Nov-12		Dec-12		Total	
		MUs	Total Revenue (Rs.Crs)	MUs	Total Revenue (Rs.Crs)	MUs	Total Cost (Rs.Crs)	MUs	Total Revenue (Rs.Crs)
1	2	3	4	5	6	7	8	9	10
a	Sale of Power to Exchanges	1.34	0.33	9.65	2.21	10.67	2.54	21.66	5.09
b	Sale of Power to Pool/ Grid								



Computation of FPPCA for Third Quarter from October 2012 to December 2012			
Sr. No.	Particulars	Total for the Quarter	
		Unit	Amount/ Units
1	2	3	4
Numerator = (P_{Actual} - S_{Bulk})			
1	Actual Power Purchase Cost	Rs.Crs	200
2	Actual Revenue from Sale of Power to Other Persons	Rs.Crs	5
3	Difference of Costs P_{Actual} - S_{Bulk} : (1-2)		195
Denominator = (P_{Actual} - S_{Bulk})			
4	Actual Energy Units procured from Approved Sources - X	MUs	879
5	Actual Energy Units procured from Exchanges, Pool Purchase or any other source - A	MUs	27
6	Difference of Energy (X-A) : (4-5)	MUs	852
7	Approved Inter-State Transmission Losses (in %) - T	%	3.56%
8	Transmission Loss (C = {X-A}*T/100)	MUs	30
9	Actual Sale of Power to persons other than Utility consumers - X _s	MUs	22
10	Approved Distribution Losses (in %) - Y	%	12.50%
11	Net Energy (B = 1-Y/100)	%	87.50%
12	Actual Energy units billed to BPL & Agriculture (Categories at Sr. 1(b), Sr.4, Sr.10) - Z	MUs	3
13	Net Energy Available for Sales [{X-C}-X_s]*b]-Z	MUs	721
14	Actual Per Unit Rate of Power Purchase (Numerator/ Denominator)* 1000 or (Sr.3/Sr.13)*1000	Paisa/ unit	270.20
15	Approved Per unit Rate of Power Purchase for use in FPPCA (Chapter 9, Pt 6, page 154 of Tariff Order)	Paisa/ unit	246
16	Per unit of FPPCA (Sr.14-Sr.15) recoverable from Consumers	Paisa/ unit	24.69



Levy of FPPCA for 3rd Quarter (Oct-December 2012) in the month of February 2013, March 2013 and April 2013			
Sr. No.	Category of Consumer	'K' Factor	Monthly FPPCA (Paisa/ Unit)
A	LOW TENSION SUPPLY		
1(a)	Tariff LTD/Domestic and Non-Commercial		
	<i>First 60 Units</i>	0.37	9.00
	<i>61 to 250 Units</i>	0.50	12.00
	<i>251 to 500 Units</i>	0.81	20.00
	<i>Above 500 Units</i>	0.95	23.00
1(b)	Tariff LTD/Low Income Group	0.00	-
1(c)	Tariff LTD/Domestic Mixed		
	<i>First 400 Units</i>	0.80	20.00
	<i>Above 400 Units</i>	1.10	27.00
2	Tariff-LTC/Commercial		
	<i>First 100 Units</i>	0.91	22.00
	<i>From 101 to 1000 Units</i>	1.16	29.00
	<i>All Consumption above 1000 Units</i>	1.26	31.00
3 (a)	Tariff-LTP/Motive Power		
	<i>Connected Load upto 50 HP</i>	0.98	24.00
	<i>Connected Load above 50 HP</i>	1.13	28.00
3 (b)	Tariff-LTP/ Ice Manufacturing		
	<i>Connected Load upto 100 HP</i>	1.13	28.00
3(c)	Tariff-LTP/Mixed (Hotel Industries)	1.18	29.00
4	Tariff-LTAG/Agriculture	0.00	-
5	Tariff-LTPL/Public Lighting	0.92	23.00
6	Tariff-LT PWW/Public Water Works	1.18	29.00
B	HIGH TENSION SUPPLY		
7	Tariff HT-Mixed	1.24	31.00
8 (a)	Tariff HTI/Industrial	1.23	30.00
8 (b)	Tariff HTI/Hotel Industries	1.23	30.00
8 (c)	Tariff HTI/Ice Manufacturing	1.14	28.00
9	H.T.Industrial (Ferro Metallurgical/ Steel Melting/ Power Intensive)		
	<i>First 300 Units/kVA</i>	1.14	28.00
	<i>Next 200 Units/kVA</i>	1.21	30.00
	<i>Above 500 Units/kVA</i>	1.29	32.00
10	Tariff-HTAG/Agriculture	0.00	-
11	EHTI/Industrial	1.19	29.00
12	H.T. PW/Public Water Supply and Sewage	1.03	25.00
13	H.T. MES/Defence Establishments	1.04	26.00
14	H.T. Industrial (Steel Rolling)		
	<i>First 200 Units/kVA</i>	1.13	28.00
	<i>Next 100 Units/kVA</i>	1.26	31.00
	<i>Above 300 Units/kVA</i>	1.48	37.00
15	Tariff HT-Industries (IT High Tech).	1.15	28.00
C	TEMPORARY SUPPLY		
16	Tariff-LT/Temporary	0.00	-
17	Tariff-HT/Temporary	0.00	-



Annexure XIII: Details of Letter of Credit

DETAILS OF OLD LETTERS OF CREDIT OF POWER PURCHASE AGENCIES						
DIV - III, ELECTRICITY DEPARTMENT, CURTI, PONDA - GOA						
Sr. No.	Name of Agency	L C No. & Date	Amount	Validity of L C	Opened on	FAX NOS.
1	N.T.P.C.- S/R (Secunderabad)	2009-10/03 dt 1/07/2009	4,00,00,000-	30th SEPTEMBER (Renewed Bi-mthly)	15/4/2003	022- 28259345 K.M. Prusty
2	N.T.P.C.- W/R (Mumbai)	2010-11/01 dt .8/4/2010	1,55,00,000-	30th SEPTEMBER	04-08-10	9004497014
3	N.T.P.C.- W/R (Mumbai)	2010-11/02 dt .31/7/2010	36,65,00,000-	31/7,30/10,31/1,30/4	31/07/2010	
4	N.T.P.C.- W/R (Mumbai)	2010-12/01 dt .20/4/2011	3,06,00,000	30th SEPTEMBER	20/04/2011	
5	N.T.P.C.- W/R (Mumbai)		2,74,00,000-			
	TOTAL		48,00,00,000-			
						080 - 22206201
6	P.G.C.I.L.- S/R (Bangalore)- POC Chgs.	2010-11/04 dt.31/7/10	2,31,00,000-	31st JULY	31-7-2010	Naresh Kumar 9449599069
	TOTAL		2,31,00,000-			
						0712- 2650109
7	P.G.C.I.L.- W/R (Nagpur) -	2010-11/03	4,72,00,000-	31st JULY	10-01-02	Anil Kumar -



DETAILS OF OLD LETTERS OF CREDIT OF POWER PURCHASE AGENCIES						
DIV - III, ELECTRICITY DEPARTMENT, CURTI, PONDA - GOA						
Sr. No.	Name of Agency	L C No. & Date	Amount	Validity of L C	Opened on	FAX NOS.
	POC Chgs.	dt.31/07/2011				
						9403964738
	TOTAL		4,72,00,000-			
8	N.P.C.I.L. (Tarapur)	2008-09/02 dt.21/8/2008	1,60,00,000-	30th SEPTEMBER	21/8/2008	
9	N.P.C.I.L. (Kakrapar)	2008-09/03 dt.21/8/2008	1,00,00,000-	30th SEPTEMBER	21/8/2008	
	TOTAL		2,20,00,000-			
	POSO-CO-SR (Bangalore)	2011-12/02 dt.20-04-2011	90,00,000-	30th SEPTEMBER	20-04-2011	
	TOTAL		90,00,000-			
11	NTPC VidyutVyapar Nigam Ltd. New Delhi.		5,90,00,000			
	TOTAL		5,90,00,000			
12	Maharashtra State Electricity Transmission Co. Ltd.(Mumbai)		44,32,000			
	TOTAL AMOUNT OF L.C.s		64,43,00,000-			



DETAILS OF NEW LETTERS OF CREDIT OF POWER PURCHASE AGENCIES								
DIV - III, ELECTRICITY DEPARTMENT, CURTI, PONDA - GOA								
Sr. No.	Name of Agency	L C No. & Date	Amount	Validity of L C (Renewed Bi-mthly)	Opened on	FAX NOS.	Total Reqd. LCs	Amt. to be enhanced by 1/7/12
						K.M. Prusty		
1	N.T.P.C.- W/R (Mumbai)	2012-13/10 dt. 28-06-2012	51,30,00,000	28-06-12 to 30-6-13	28-06-12	9004497014	60.00 crores	51.3
	TOTAL		48,00,00,000-					
						080 - 22206201		
2	P.G.C.I.L.- S/R (Bangalore)-POC Chgs.	2012-13/15 dt.03-07-2012	2,31,00,000-	03-07-12 to 30-6-13	03-07-12	Naresh Kumar 9449599069		
	TOTAL		2,31,00,000-				3.00 crores	
						0712- 2650109		
3	P.G.C.I.L.- W/R (Nagpur) -POC Chgs.	2012-13/16 dt.05-04-12	7,14,00,000-	03-07-12 to 30-06-13	03-07-12	Anil Kumar - 9403964738		7.14
	TOTAL		4,72,00,000-				5.50 crores	
4	P.G.C.I.L.- W/R (Nagpur) -POC (U.I. Chgs.)						5.00 crores	
5	N.P.C.I.L. (Tarapur)	2012-13/09 dt. 05-04-12	38,00,000-	01-04-12 to 30-6-12	05-04-12			
6	N.P.C.I.L. (Tarapur)	2011-12/05 dt. 15-11-2011	40,00,000-	01-02-12 to 30-04-12	15-11-11			
7	N.P.C.I.L. (Tarapur)	2008-09/02 dt. 21/08/2008	1,20,00,000-	01-04-12 to 30-6-12				
	TOTAL		1,98,00000-				2.60 crores	



DETAILS OF NEW LETTERS OF CREDIT OF POWER PURCHASE AGENCIES								
DIV - III, ELECTRICITY DEPARTMENT, CURTI, PONDA - GOA								
Sr. No.	Name of Agency	L C No. & Date	Amount	Validity of L C	Opened on	FAX NOS.	Total Reqd. LCs	Amt. to be enhanced by 1/7/12
8	N.P.C.I.L. (Kakrapar)	2008-09/03 dt. 21-08-2008	1,00,00,000-	01-04-12 to 30-6-12	21-08-08			
9	N.P.C.I.L. (Kakrapar)	2012-13/02 dt. 03-04-12	1,15,00,000-	01-04-12 to 30-6-12	03-04-12			
	TOTAL		2,15,00,000-				3.00 crores	
10	POSOCO-SRLDC (Bangalore)	2011-12/02 dt. 20-04-2011	90,00,000-	01-04-12 to 30-6-12	20-04-2011		2.00 crores	
	TOTAL		90,00,000-					
11	POSOCO-WRLDC (MUMBAI) Fees & Chgs.	2012-12/08 dt. 05-04-12	6,63,000	01-04-12 to 30-6-12	05-04-12		7.00 lakhs	
12	POSOCO-SRLDC (BANGALORE) Fees & Chgs.	2012-13/05 dt. 05-04-2012	4,00,000	01-04-12 to 30-6-12	05-04-12		5.00 lakhs	5.00 lakhs
13	NTPC VidyutVyapar Nigam Ltd. New Delhi.		5,89,80,960	01-02-12 to 30-04-12	15-11-11		7.00 crores	
	TOTAL		5,89,80,960					
14	Maharashtra State Electricity Transmission Co. Ltd.(Mumbai)	2012-13/03 dt. 03-04-2012	44,32,000	01-02-12 to 30-04-12	03-04-12		45.00 lakhs	



DETAILS OF NEW LETTERS OF CREDIT OF POWER PURCHASE AGENCIES								
DIV - III, ELECTRICITY DEPARTMENT, CURTI, PONDA - GOA								
Sr. No.	Name of Agency	L C No. & Date	Amount	Validity of L C	Opened on	FAX NOS.	Total Reqd. LCs	Amt. to be enhanced by 1/7/12
15	Ratnagiri Gas & Power Pvt.Ltd., UP	2012-13/01 dt. 03-04-12	9,27,00,000	01-04-12 to 30-6-12	03-04-12	0	11.33 crores	
	TOTAL AMOUNT OF L.C.s		75,77,75,960-					
	Approved Sanctioned Limit as on 30/06/2012		76,74,00,000					
	Balance Limit		96,24,040-					



NO. 23.		ANNEXURE - I		YEAR 2011- 12	
DETAILS OF LETTERS OF CREDIT OF POWER PURCHASE AGENCIES					
DIV - III, ELECTRICITY DEPARTMENT, CURTI, PONDA - GOA					
Sr. No.	Name of Agency	L C No. & Date	Amount	Validity of LC	Opened on
1	N.T.P.C.- W/R (Mumbai)	2010-12/01 dt .20/4/2011	3,06,00,000	30-06-12	20-04-11
2	P.G.C.I.L.- W/R (Nagpur) - POC Chgs.	2010-11/03 dt.31/07/2011	4,72,00,000-	30-06-12	10-01-02
3	POSOCO-SR (Bangalore)	2011-12/02 dt.20-04- 2011	90,00,000-	30-06-12	20-04-2011
4	NTPC VidyutVyapar Nigam Ltd. New Delhi.	2011-12/04 dt. 15/11/11	5,89,800,960	30-04-12	15-11-11



		ANNEXURE - I			YEAR 2012- 13
DETAILS OF LETTERS OF CREDIT OF POWER PURCHASE AGENCIES					
DIV - III, ELECTRICITY DEPARTMENT, CURTI, PONDA - GOA					
Sr.	Name of Agency	L C No. & Date	Amount	Validity of L C (Renewed Yearly)	Opened on
1	N.T.P.C.- W/R (Mumbai)	2012-13/10 dt. 28-06-2012	51,30,00,000	01-07-12 to 30-06-13	28.06.12
	N.T.P.C.- W/R (Mumbai)	2012-13/21 dt. 01-01-2013	1,11,00,000	01.01.13 to 31.12.13	01.01.13
			52,41,00,000		
2	P.G.C.I.L.- S/R (Bangalore)-POC Chgs.	2012-13/15 dt. 03-07-2012	2,31,00,000	01-07-12 to 30-06-13	03-07-12
3	P.G.C.I.L.- W/R (Nagpur) -POC Chgs.	2012-13/16 dt. 03-07-12	7,14,00,000	01-07-12 to 30-06-13	03-07-12
4	N.P.C.I.L. (Tarapur)	2012-13/17 dt. 03-07-2012	1,58,00,000	01-07-12 to 30-06-13	03-07-12
5	N.P.C.I.L. (Tarapur)	2012-13/20 dt. 02-08-2012	40,00,000	01-08-12 to 31-07-13	02-08-12
	TOTAL		1,98,00,000		
6	N.P.C.I.L. (Kakrapar)	2012-13/18 dt. 03-07-2012	2,15,00,000	01-07-12 to 30-06-13	03-07-12



		ANNEXURE - I	YEAR 2012- 13		
DETAILS OF LETTERS OF CREDIT OF POWER PURCHASE AGENCIES					
DIV - III, ELECTRICITY DEPARTMENT, CURTI, PONDA - GOA					
Sr.	Name of Agency	L C No. & Date	Amount	Validity of L C	Opened on
7	POSOCO-SRLDC (Bangalore)	2012-13/12 dt. 03-07-12	90,00,000	01-07-12 to 30-6-13	03-07-12
8	POSOCO-WRLDC (MUMBAI) Fees & Chgs.	2012-13/14 dt. 03-07-12	6,63,000	01-07-12 to 30-06-13	03-07-12
9	POSOCO-SRLDC (BANGALORE)Fees & Chgs.	2012-13/13 dt. 03-07-2012	5,00,000	01-07-12 to 30-06-13	03-07-12
10	Maharastra State Electricity Transmission Co. Ltd.(Mumbai)	2012-13/19 dt. 03-07-2012	44,32,000	01-07-12 to 30-06-13	03-07-12
11	Ratnagiri Gas & Power Pvt.Ltd., UP	2012-13/11 dt. 03-07-12	9,27,00,000	01-07-12 to 30-06-13	03-07-12
TOTAL AMOUNT OF L.C.s			76,71,95,000		
Approved Sanctioned Limit as on 30/06/2012			76,74,00,000		
Balance Limit			2,05,000		



Annexure XIV: Budgetary Support – Government of Goa
(This annexure is being filed separately)



TARIFF FILING FORMATS

FOR FY 2012-13

ELECTRICITY DEPARTMENT, GOA