

PETITION FOR APPROVAL OF TRUE-UP PETITION OF FY 2013-14, PROVISIONAL TRUE-UP PETITION OF FY 2014-15, ANNUAL PERFORMANCE REVIEW OF FY 2015-16 AND AGGREGATE REVENUE REQUIREMENT (ARR) WITH TARIFF PROPOSAL FOR MYT CONTROL PERIOD FROM FY 2016-17 TO FY 2018-19

OF

ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY

SUBMITTED TO

**THE HON'BLE JOINT ELECTRICITY REGULATORY COMMISSION
GURGAON**

BY

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UNION TERRITORIES, GURGAON**

Filing No.....

Case No.....

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LIST OF ABBREVIATIONS

| Sr. No | Abbreviations | Descriptions |
|--------|---------------|--|
| 1 | A&G | Administrative and General |
| 2 | ABT | Availability Based Tariff |
| 3 | ACoS | Average Cost of Supply/ Service |
| 4 | AMI | Automated Metering Infrastructure |
| 5 | AMR | Automatic Meter Reading |
| 6 | APR | Annual Performance review |
| 7 | ARR | Aggregate Revenue Requirement |
| 8 | CAGR | Compound Annual Growth Rate |
| 9 | CAPEX | Capital Expenditure |
| 10 | CEA | Central Electricity Authority |
| 11 | CERC | Central Electricity Regulatory Commission |
| 12 | CGS | Central Generating Station |
| 13 | CWIP | Capital work in progress |
| 14 | DELP | DSM based Efficient Lighting Programme |
| 15 | Discom | Distribution Companies |
| 16 | DSM | Demand Side Management |
| 17 | EA/The Act | The Electricity Act 2003 |
| 18 | EDP/ PED | Electricity Department, Government of Puducherry |
| 19 | EC | Energy Charges |
| 20 | EHT | Extra High Tension |
| 21 | FC | Fixed Charges |
| 22 | FOR | Forum of Regulators |
| 23 | FY | Financial Year |
| 24 | GFA | Gross Fixed Assets |
| 25 | Goi | Government of India |
| 26 | HT | High Tension |
| 27 | JERC | Joint Electricity Regulatory Commission |
| 28 | JICA | Japan International Cooperation Agency |
| 29 | JNNSM | Jawaharlal National Solar Mission |
| 30 | KSEB | Kerala State Electricity Board |
| 31 | KV | Kilo Volt |
| 32 | kVA | Kilo Volt Ampere |
| 33 | kVAh | Kilo Volt Ampere Hour |
| 34 | kW | Kilo Watt |
| 35 | kWh | Kilo Watt Hour |
| 36 | LT | Low Tension |
| 37 | MNRE | Ministry of New and Renewable Energy |
| 38 | MOD | Merit Order Despatch |
| 39 | MoP | Ministry of Power |
| 40 | MOU | Memorandum of Understanding |
| 41 | MU | Million Units (Million kWh) |

| Sr. No | Abbreviations | Descriptions |
|--------|---------------|--|
| 42 | MVA | Mega Volt Ampere |
| 43 | MW | Mega Watt |
| 44 | MYT | Multi Year Tariff |
| 45 | NFA | Net Fixed Assets |
| 46 | NLC | Neyveli Lignite Corporation |
| 47 | NPCIL | Nuclear Power Corporation of India Limited |
| 48 | NTP | National Tariff Policy |
| 49 | NTPC | National Thermal Power Corporation |
| 50 | O&M | Operation & Maintenance |
| 51 | PLR | Prime Lending Rate |
| 52 | POC | Point of Connection |
| 53 | PPA | Power Purchase Agreement |
| 54 | PPCL | Puducherry Power Corporation Limited |
| 55 | PV | Photo voltaic |
| 56 | R&M | Repair and Maintenance |
| 57 | R-APDRP | Restructured Accelerated Power Development and Reforms Programme |
| 58 | REC | Renewable Energy Certificate |
| 59 | ROE | Return on Equity |
| 60 | RPO | Renewable Purchase Obligation |
| 61 | Rs | Rupees |
| 62 | SBI | State Bank of India |
| 63 | SECI | Solar Energy Corporation of India |
| 64 | SLDC | State Load Dispatch Centre |
| 65 | SWOT | Strength, Weakness, Opportunity and Threats |
| 66 | TANGEDCO | Tamil Nadu Generation and Distribution Company |
| 67 | T&D | Transmission and Distribution |
| 68 | TOD | Time of Day |
| 69 | UI Charges | Unscheduled Interchange Charges |
| 70 | w.e.f | With effect from |
| 71 | WPI | Wholesale Price Index |

CHAPTER 1. INTRODUCTION

1.1 Historical Perspective

1.1.1 The Union Territory of Puducherry comprises of four regions namely Puducherry, Karaikal, Mahe and Yanam, which are not geographically contiguous and is spread over an area of 492 Sq. km with the total population of 12.45 Lakhs as per provisional results of Census 2011. The basic profiles of four regions are as follows:

- Puducherry is the largest among the four regions and consists of 12 scattered areas interspersed with enclaves of Villupuram and Cuddalore Districts of Tamil Nadu.
- Karaikal is about 150 kms South of Puducherry and is bounded by Nagapattinam and Thiruvarur Districts of Tamil Nadu State.
- Mahe lies almost parallel to Puducherry 653 kms away on the west coast near Kannur District of Kerala State.
- Yanam is located about 840 kms north-east of Puducherry and it is located in the East Godhavari District of Andhra Pradesh State.

1.1.2 The Territory of Puducherry was merged with the Indian Union on 1st November 1954 and is administered under the provisions of Government of Union Territories Act, 1963.

1.2 Electricity Department of Puducherry

1.2.1 Puducherry Electricity Department being a deemed distribution licensee as per section 14 of the Electricity Act 2003, performs the functions of transmission and distribution of electric power to the Union Territory. The sole generating station in Puducherry is a 32.5 MW combined cycle gas power plant in Karaikal owned by the Puducherry Power Corporation Limited. The entire power requirement of Puducherry is met from the power allocated from the Central Generating Stations, Tamil Nadu Electricity Board, Kerala State Electricity Board and from the Puducherry Power Corporation Limited

1.2.2 The Union Territory of Puducherry has an extensive network of Power Transmission and Distribution Systems spread along the breath and width of all the four regions of the Union Territory. PED operates a transmission network of 230 kV & 110 kV and distribution network at 33 kV, 22 kV, 11 kV and at LT levels. It supplies power to its consumer through its 18 EHV substations, 384.5 km of EHT line, 1025 km of HT line, 2294 nos. of distribution transformers and 3340 km of LT line. The network configuration as on September 2014 is as given below:

Table 1-1: Network Configuration (as on September 2014)

| Voltage | Lines | Capacity MVA | Substations/ Transformer | Transformation Capacity |
|--------------------------------|-------|---|-----------------------------|----------------------------|
| | (Km) | (MVA) | (No.s) | (MVA) |
| Transmission | | | | |
| 230 kV/110kV | 54 | (100x4) + (80x2) | 3 | 560 |
| 132 kV/33-11 kV | 44 | (2x10) + (1x16) | 1 | 36 |
| 110 kV/22-11 kV | 280 | (25x1) + (16x27) + (10x7) + (31.5x2) | 14 | 590 |
| 110 kV/22-11 kV (UG Cable) | 6.5 | | | |
| Distribution | | | | |
| 33/11kV | | (5x2) | 1 | 10 |
| 22 kV & 11 kV (Overhead) | 955 | | | |
| 22 kV & 11 kV (Underground) | 70 | | | |
| LT (Overhead) | 2527 | | | |
| LT (Underground) | 813 | | | |

1.3 Filing under Tariff Regulations

- 1.3.1 PED has been filing its ARR and Tariff petitions for the past years with the Hon'ble Commission based on the principles outlined by the Hon'ble Commission vide their Regulations on applicable terms and conditions of Tariff for Distribution Licensees as notified in 2009.
- 1.3.2 PED has filed its petition for determination of Aggregate Revenue Requirement (ARR) & Retail Tariff for distribution and retail sale of electricity for FY 2015-16 under section 61, 62 & 64 of the Electricity Act, 2003 and JERC (Multi Year Distribution Tariff) Regulations, 2014 on 02nd January 2014 against which Tariff Order was issued by the Hon'ble Commission on 10th April 2015. In the said Order, the Hon'ble Commission has directed to file True-up Petition for FY 2013-14 as per the Audited accounts by June, 2015.
- 1.3.3 PED already has filed a true-up Petition till FY 2012-13 against which the Tariff Order has already been issued by the Hon'ble Commission. However, True-up of FY 2013-14 as per audited accounts and provisional true-up for FY 2014-15 based on provisional accounts has been prepared in the said petition in line with the Terms & Conditions of Tariff Regulations, 2009 and JERC (Multi Year Distribution Tariff) Regulations, 2014 issued by the Hon'ble Commission.
- 1.3.4 The Hon'ble Joint Electricity Regulatory Commission (hereinafter referred to as Hon'ble Commission / JERC) issued the JERC (Multi Year Distribution Tariff)

Regulations, 2014 (hereinafter referred to as MYT Regulations) in exercise of powers conferred by Section 61, 62, 63 and 86 read with Section 181 of Electricity Act 2003 on 30th June, 2014. These regulations were made applicable to all distribution licensee in the State of Goa & Union Territories of Andaman & Nicobar Island, Dadra & Nagar Haveli, Daman & Diu, Chandigarh, Lakshadweep and Puducherry. The Commission had subsequently issued first amendment to the MYT regulations on 10th August, 2015. As per clause 3.1.6 of the JERC (Multi Year Distribution Tariff) Regulations, 2014, the Control Period was defined as a three year period from FY 2015-16 to FY 2018-19. However in the last tariff order dated 10th April, 2015 the Commission had deferred the implementation of MYT by one year and thus the Control period was revised to FY 2016-17 to FY 2018-19. The same has been highlighted in the first amendment to the JERC MYT regulations.

1.3.5 As per provisions in clause 5.1 (as per amendment dated 10th August 2015) and 12.1 of the JERC Multi Year Distribution Tariff Regulations, 2014, PED has filed for approval of its Business Plan for three years control period i.e. from FY 2016-17 to FY 2018-19 before the Commission on 05th August 2015.

1.3.6 The Hon'ble Commission has admitted the business plan petition as Petition No. 181/2015 on 07th September, 2015 after seeking further information/data from PED so as to take a prudent view of the petition. PED has submitted clarification to JERC on 28th August, 2015 and 11th September, 2015. The technical validation session was held on 28th September, 2015 in JERC office, Gurgaon and subsequent to that Public hearing was held at Puducherry and Karaikal on 08th October and 09th October, 2015. The order on the business plan petition was issued on 04th December, 2015 and the Hon'ble Commission has directed to file the MYT Petition within one month of the issue of the Business Plan order. Accordingly this MYT petition has been prepared in line with the Tariff Regulations 2009, Business plan order, MYT Regulations 2014 and subsequent amendment.

1.4 Filing of ARR and Multi Year Tariff Petition

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

1.4.2 The Hon'ble Commission has notified first amendment to JERC (MYT Distribution Tariff) Regulations, 2014 wherein tariff determination under MYT framework shall be applicable from 1st April 2016. However, clause 39 of MYT Regulations, 2014 states as follows:

“39. Repeal and savings

38.2 Notwithstanding such repeal, any proceedings before the Commission pertaining to the period prior to the commencement of the Control Period, including Petitions for True up of expenses, annual performance review, etc. shall be governed by Joint Electricity Regulatory Commission (Terms and Conditions of Determination of Tariff) Regulations 2009”.

- 1.4.3 In line with the above clause, PED has adopted the principles of Terms and Conditions for Determination of Tariff Regulations 2009 (Tariff Regulations 2009) notified by the Joint Electricity Regulatory Commission for FY 2013-14 to FY 2015-16. Accordingly PED is submitting the said petition for True-up of FY 2013-14 based on audited accounts, Provisional true-up of FY 2014-15 as per provisional accounts and Annual Performance Review of FY 2015-16 in line with JERC (Terms & Conditions of Tariff) Regulations, 2009 for the approval of the Hon’ble Commission. The tariff formats as outlined in the Tariff Regulations 2009 and as applicable to PED are provided at the end of this petition.
- 1.4.4 Also, along with the said Petition, determination of ARR and Tariff for MYT Period for the first control period of FY 2016-17 to FY 2018-19 are prepared in line with MYT Regulations, 2014 and subsequent first amendment. The tariff formats as outlined in the Tariff Regulations 2014 and as applicable to PED are provided at the end of this petition.
- 1.4.5 As per the Terms & Conditions for Determination of Tariff Regulations 2009 and MYT Regulations 2014, PED was required to file the ARR and the MYT Petition for the Financial Year 2016-17 by 30th November, 2015. However there was delay in filing due to reasons as discussed below:
- Hon’ble JERC issued order on MYT Business Plan for PED on 04th December 2015 and directing PED to file the MYT petition within 30 days of issuance of the business plan order.
 - The Petition needs Administrative and Finance approval of Government of Puducherry, which would also take considerable time to finalise/ approve the said Petition considering the short time period given to file the MYT petition.
- 1.4.6 PED is now filing this petition for approval of Hon’ble Commission whereby the Tariff Formats are enclosed as per Annexure 1 of this petition. The details are provided in subsequent chapters.

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 and JERC (Multi Year Distribution Tariff) Regulations, 2014. The Hon'ble Commission has notified the JERC (Multi Year Distribution Tariff) (First Amendment) Regulations, 2015 on 10th August, 2015. In line with the Tariff regulations, 2009, PED 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, Puducherry Electricity Department is filing the True-up for FY 2013-14, Provisional True-up for FY 2014-15 and Annual Performance Review for FY 2015-16 along with MYT ARR for first control period of FY 2016-17 to FY 2018-19.

2.1 Truing Up For FY 2013-14 and FY 2014-15

2.1.1 As specified in the Tariff Regulations, the Hon'ble Commission shall undertake the truing-up exercise for the previous year based on audited accounts. PED submits that it has completed the audit of accounts of FY 2013-14 and is in the process of third party audit of accounts for FY 2014-15. In line with completion of audit, PED is submitting the True-up petition of FY 2013-14 with the audited accounts as per Annexure 2. Also, at present the provisional actual figures of FY 2014-15 are made available for Provisional True-up with provisional accounts as Annexure 3 with the details of ARR specified in the relevant chapter of this petition. PED further submits that it may provide the final audited accounts during the regulatory process of finalisation of MYT Order.

2.2 Annual Performance Review for FY 2015-16

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-actual of sale of electricity, income and expenditure for the relevant year.

2.2.2 Accordingly, PED is filing this Annual Performance Review petition for the year FY 2015-16 based on the actual performance during the 1st half of the year and the revised estimates for the second half of the year of purchase and sales.

2.3 Multi – Year Tariff Petition and Tariff determination for FY 2016-17

2.3.1 The Joint Electricity Regulatory Commission had notified the JERC (Multi Year Distribution Tariff) Regulations, 2014 (hereinafter referred to as "MYT Regulations" or "Regulations") which came into effect from 2014. However the implementation of

MYT framework has been differed by a year to 2016. The Commission notified the JERC (MYT Distribution tariff) (First Amendment) Regulations, 2015 on 10th August, 2015. These first amendment regulations govern the tariff determination for the first control period i.e. FY 2016-17 to FY 2018-19.

2.3.2 As per Clause 6 of the MYT Regulations, 2014 it provides that submission of forecast of ARR and expected revenue from tariff will be based on the approved Business Plan.

2.3.3 Therefore, PED is filing the petition for the determination of Annual Revenue Requirement Petition for the first control period i.e. FY 2016-17 to FY 2018-19 in line with the JERC Distribution Tariff Regulations 2014 and subsequent first amendment and projections are based on the norms specified in the Regulations as well as approved in the MYT Business plan order and on the past performance, wherever required and considering expected changes in each element of cost and revenue for the ensuing control period. PED has studied the previous trends and taken cognisance of other internal and external developments to estimate the likely performance for first control period of FY 2016-17 to FY 2018-19.

2.3.4 The subsequent sections for MYT control period provide projection for various expenses, the proposed investment plan for the control period and the expected revenue projections with existing tariff based on the tariff notifications in force in the area of supply of PED.

2.3.5 Projections of various cost components required for determination of Aggregate Revenue Requirement for the control period along with the rationale for estimation of such cost is covered in the subsequent section. Further, the philosophy adopted by PED for projecting power purchase cost has also been elucidated in the respective section.

2.3.6 However, in line with the MYT Regulations, 2014, the sales projection, Capital Investment plan and O&M norms are considered in line with the MYT Business plan order as approved by the Hon'ble Commission vide order dated 4th December 2015.

2.4 Norms for Projection

2.4.1 The First MYT Control Period as directed by the Hon'ble Commission in the Regulations Order will commence from 1st April 2016 onwards. PED is filing this petition in line with the norms and principles enumerated by Hon'ble Commission in

the MYT Regulations, 2015 and the business plan order.

2.4.2 As the FY 2013-14 has been concluded, PED is filing this petition for FY 2013-14 based on the actual audited performance. Also, for FY 2014-15, the petition has been prepared in line with the provisional figures available with the department. Similarly, projections for the control period FY 2016-17 to FY 2018-19 have been projected based on the MYT business plan order.

2.4.3 ARR for FY 2013-14 to FY 2014-15, APR for FY 2015-16 and ARR for the Control Period i.e. FY 2016-17 to FY 2018-19 have been carried out separately and details of the same are presented separately.

CHAPTER 3. FINAL TRUING UP OF FY 2013-14

3.1 Preamble

3.1.1 This section outlines the performance of Puducherry Electricity Department (PED) for FY 2013-14. PED submits that the Hon'ble Joint Electricity Regulatory Commission after undertaking a thorough analysis had issued the ARR Order for FY 2015-16 on 10th April 2015. In the petition filed by PED for ARR and Tariff determination for MYT period FY 2015-16 to FY 2018-19 on 20th January, 2014, PED filed for provisional true-up of FY 2013-14 based on provisional accounts. But the Commission did not true-up citing the absence of audited accounts. Therefore, in the Tariff Order dated 10th April 2015, the Hon'ble Commission had directed PED to submit the True-up for FY 2013-14 based on audited accounts by June, 2015.

3.1.2 Accordingly, the final truing up of FY 2013-14 is submitted by comparing actual audited figures with those approved by Hon'ble Commission vide tariff order dated 25th April 2014.

3.1.3 This chapter summarizes each of the components of ARR for FY 2013-14 and thereby working out the revenue gap for the said year.

3.2 ARR approved for FY 2013-14

3.2.1 The summary of the charges for FY 2013-14 claimed by the petitioner in the annual performance review and as approved by the Hon'ble Commission in the Tariff Order dated 25th April 2014 is tabulated below:

Table 3-1: APR of FY 2013-14 as per Tariff Order dated 25th April 2014

| Rs. Crs | | | |
|---------|---|----------------|------------------------|
| S. No. | Particulars | Claimed in APR | Approved in Commission |
| 1 | Cost of power purchase including RPO provision to meet obligation of the previous years | 984.77 | 1002.78 |
| 2 | Employee Cost | 69.69 | 64.73 |
| 3 | Administration and General Expenses | 3.96 | 3.96 |
| 4 | R&M Expenses | 20.15 | 18.06 |
| 5 | Depreciation | 23.65 | 23.65 |
| 6 | Interest and Finance Charges | 4.53 | 13.88 |
| 7 | Interest on Working Capital +Interest on CSD | 8.39 | 7.18 |
| 8 | Return on NFA / Equity | 9.85 | 9.87 |
| 9 | Provision for Bad Debt | - | - |
| 10 | Total Revenue Requirement | 1124.99 | 1144.11 |
| 11 | Less: Non- Tariff Income | 16.50 | 16.50 |
| 12 | Net Aggregate Revenue Requirement | 1108.49 | 1127.61 |
| 13 | Revenue from Existing Tariff | 1089.13 | 1084.99 |
| 14 | Revenue Gap | 19.36 | 42.62 |

3.3 Number of Consumers

3.3.1 PED submits before the Hon'ble Commission the actual consumer numbers for FY 2013-14 in comparison to the approved numbers as highlighted below:

Table 3-2: Details of Number of Consumer for FY 2013-14

| Sr.No | Consumer Categories | FY 2013-14 | |
|-------|--------------------------------|------------------------|----------------|
| | | Approved by Commission | Actuals |
| 1 | Domestic & Cottage | 299,772 | 307,735 |
| 2 | Commercial | 44,485 | 45,311 |
| 3 | Agriculture | 6,842 | 6,810 |
| 4 | Public lighting | 49,326 | 49,524 |
| 5 | LT Industrial | 6,221 | 6,338 |
| 6 | Temporary supply - LT&HT | - | - |
| | Total LT | 406,646 | 415,718 |
| 7 | HT 1 Industrial | 411 | 363 |
| 8 | HT Commercial | | 71 |
| 9 | HT 2 - Government & water tank | 49 | 49 |
| 10 | HT 3 - EHT | 9 | 7 |
| | Total HT | 469 | 490 |
| | Total LT and HT | 407,115 | 416,208 |

3.3.2 It is requested to the Hon'ble Commission to approve the number of consumers as submitted in the above table for FY 2013-14.

3.4 Energy Sales

3.4.1 The total sales of PED for FY 2013-14 are **2,365.72** MU's. The category wise actual and approved sales for FY 2013-14 are shown in the table below.

Table 3-3: Sales for FY 2013-14

MU's

| S. No. | Particulars | Approved | Actuals |
|--------|------------------------------|----------------|----------------|
| 1 | Domestic | 570.92 | 600.00 |
| 2 | OHOB | | 12.09 |
| 3 | Commercial | 170.46 | 181.00 |
| 4 | Agriculture | 56.63 | 57.00 |
| 5 | Public Lighting | 26.88 | 26.00 |
| 6 | LT Industrial | 251.63 | 226.10 |
| 7 | Temporary Supply - LT&HT | 11.95 | 10.10 |
| 8 | Total LT | 1088.47 | 1112.29 |
| 9 | HT 1 Industrial & Commercial | 929.28 | 878.01 |
| 10 | HT 2 Government & Water Tank | 51.49 | 48.77 |
| 11 | HT 3 EHT | 336.88 | 326.65 |
| 12 | Total HT | 1317.65 | 1253.43 |
| 13 | Total LT and HT | 2406.12 | 2365.72 |

3.4.2 PED submits that FY 2013-14 has witnessed a global economic downturn whereby economy started reviving from FY 2014-15 onwards. Due to recession and economic downturn, Industrial category has witnessed reduction in sales for FY 2013-14

resulting in a lower sale as compared to the sales approved by the Hon'ble Commission.

- 3.4.3 Based on the above submission, PED requests the Hon'ble Commission to approve the actual sales for FY 2013-14 as stated in the table above.

3.5 Distribution Loss & Energy Requirement

- 3.5.1 PED has submitted 13.00% as the energy distribution losses for FY 2013-14 as compared to that approved by Hon'ble Commission at 12.50%. The comparison of energy balance statement and the loss levels based on audited accounts and approved figures are shown in the table below:

Table 3-4: Distribution Loss and Energy Balance for FY 2013-14

| S. No. | Particulars | Approved | Actuals |
|----------|--|----------------|----------------|
| A | ENERGY REQUIREMENT | | |
| 1 | Energy Sales within the UT | 2406.12 | 2366.31 |
| 2 | Distribution Losses (%) | 12.50% | 13.00% |
| 3 | Energy Required for the Territories | 2749.85 | 2719.06 |
| 4 | Add: Sales to Commom Pool Consumers/UI | 92.53 | 183.79 |
| 5 | Energy Requirement at periphery | 2842.38 | 2902.85 |
| B | ENERGY AVAILABILITY | | |
| 1 | Gross Energy Energy Purchase | 2959.92 | 3010.96 |
| 2 | External Losses (MU) | 117.54 | 108.11 |
| 3 | Net Energy Availability | 2842.38 | 2902.86 |

- 3.5.2 The petitioner submits that the department has not made significant capex specifically towards reduction of transmission and distribution loss. Given the consumer sale mix, wherein the growth of LT consumers is higher than HT consumers, it is difficult for the utility to maintain the commission approved T&D loss levels.
- 3.5.3 PED submits that there is reduction in T&D loss as compared to earlier years and at this rate tremendous change is difficult. PED submits that in comparison with the approved figures, actual T&D losses are marginally higher and therefore requests the Hon'ble Commission to approve the Distribution Loss of 13.00% for FY 2013-14.

3.6 Power Purchase Quantum & Cost for FY 2013-14

- 3.6.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and state utilities like TANGEDCO, KSEB and PPCL. PPCL is a generating company within the UT of Puducherry catering to the requirement of Karaikal region. KSEB supplies for Mahe region under the UT of Puducherry. Also from FY 2013-14, supply from Kudunkulam Nuclear Plant and Vallur Thermal Plant has also been started resulting in additional power allocation to the Union Territory,

Puducherry to meet the demand.

3.6.2 The table below shows the summary of actual Power Purchase from various sources along with their costs for FY 2013-14 including Transmission Charges, UI charges and purchase from traders.

Table 3-5: Power Purchase Quantum & Cost for FY 2013-14

| Sr No | Particulars | Approved (FY 2013-14) | | | Actuals (FY 2013-14) | | |
|-------|----------------------|-----------------------|---------------|----------------|----------------------|---------------|----------------|
| | | Purchase (MUs) | Cost (Rs.Cr) | Rate (Rs/Unit) | Purchase (MUs) | Cost (Rs.Cr) | Rate (Rs/Unit) |
| 1 | NTPC | 1,405.22 | 383.43 | 2.73 | 1,333.83 | 378.70 | 2.84 |
| 2 | NLC | 703.79 | 212.71 | 3.02 | 782.79 | 232.40 | 2.97 |
| 3 | NPCIL | 264.45 | 77.14 | 2.92 | 311.27 | 86.14 | 2.77 |
| 4 | KSEB | 40.38 | 20.07 | 4.97 | 40.75 | 21.64 | 5.31 |
| 5 | TANGEDCO | 292.43 | 112.79 | 3.86 | 274.76 | 100.13 | 3.64 |
| 6 | PPCL | 241.88 | 89.70 | 3.71 | 241.22 | 100.47 | 4.17 |
| 7 | Overdrawl | 11.77 | 2.56 | 2.18 | 26.33 | 2.28 | 0.86 |
| 8 | Transmission Charges | | 58.60 | | | 69.04 | |
| 9 | RPO obligations | | 18.33 | | | 15.71 | |
| 10 | Other Adjustment | | (1.70) | | | (12.46) | |
| | Total | 2,959.92 | 973.63 | 3.29 | 3,010.96 | 994.04 | 3.30 |

3.6.3 The details of other Adjustment needs to be provided.

3.6.4 PED submits that for the FY 2013-14, RPO provision allowed by the Hon'ble Commission was Rs. 18.33 Crs against which Rs. 15.71 Crs has been purchased for FY 2013-14. However, based on the RPO regulations as issued by JERC, a separate working has been considered for estimation of RPO which is covered in the subsequent section of this petition.

3.6.5 The Hon'ble Commission is requested to approve Rs. 994.04 Crs for FY 2013-14 as power purchase cost incurred during the year FY 2013-14.

3.7 Operation & Maintenance Expenses

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

- Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses
- Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.

- Repairs and Maintenance Expenses go towards the day to day upkeep of the distribution network of the Company and form an integral part of the Company's efforts towards reliable and quality power supply as well as in the reduction of losses in the system.

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

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

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

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

3.7.3 **Employee Expenses:** PED has computed the O&M (Employee) expense for FY 2013-14 based on the actual employee expenses incurred during the entire year.

3.7.3.1 The employee cost incurred during the year for FY 2013-14 is Rs. 72.70 Crores.

Table 3-6: Employee Expenses for FY 2013-14

Rs. Crs

| Sr.No | Particulars | FY 2013-14 | |
|-------|----------------------------------|--------------|--------------|
| | | Approved | Actual |
| | Salaries& Allowances | | |
| 1 | Salary | | 82.67 |
| 2 | Wages | | 0.59 |
| 3 | Stipend | | 0.35 |
| 4 | Transport Allowance | | 0.62 |
| 5 | Overtime allowance | | 0.81 |
| | Total | - | 85.04 |
| 6 | Less: Add/Deduct share of others | | 1.15 |
| | Total | - | 83.90 |
| 7 | Less: Amount capitalized | | 11.20 |
| 8 | Net amount | - | 72.70 |
| 9 | Add : prior period expenses | - | - |
| | Total Employee Expenses | 64.73 | 72.70 |

3.7.3.2 PED submits that the transport allowance as included in the Table 4-6 is considered in A&G expenses in the accounts. However, in line with the ARR formats, the same has been considered in the employee cost in ARR. Therefore, it

is submitted that difference to the tune of transport allowance will be there in employee expenses and A&G expenses as per audited accounts.

3.7.3.3 PED requests the Hon'ble Commission to kindly approve the actual cost during the year for FY 2013-14 as reflecting in audited annual accounts.

3.7.4 **Repairs & Maintenance Expenses:** The repairs and maintenance cost has been claimed as per expenses actually incurred during FY 2013-14.

Table 3-7: R&M Expenses for FY 2013-14

Rs. Crs

| Particulars | Approved (FY 2013-14) | Actual (FY 2013-14) |
|--------------|-----------------------|---------------------|
| R&M Expenses | 18.06 | 13.46 |

3.7.4.1 As seen from the table above R&M expenses incurred actually for FY 2013-14 were much less than the approved level.

3.7.4.2 PED submits that the R&M expense is being met from budgetary provision and therefore is limited to the amount allocated under such budgetary provision only.

3.7.4.3 PED submits that R&M expenses are necessary for maintenance of infrastructure and for ensuring proper Standards of Performance of the utility. It is submitted that PED has been expanding their distribution infrastructure whereby ~Rs. 100 Crs has been spent in last two years. Accordingly, there is a need for R&M expenses to be growing in line with the increase in GFA also. PED therefore requests the Hon'ble Commission to approve Rs. 13.46 Crs for FY 2013-14 as R&M expenses.

3.7.5 **Administration & General expenses:** The administrative expense mainly comprise of rents, professional charges, office expenses, etc. The expenses incurred by the petitioner for FY 2013-14 are shown in the table below.

Table 3-8 A&G Expenses for FY 2013-14

Rs. Crs

| Sr. No. | Particulars | FY 2013-14 | |
|---------|--|-------------|-------------|
| | | Approved | Actual |
| 1 | Rent, rates & taxes | | 0.43 |
| 2 | Other Professional charges including Regulatory Expenses (License + Petition Fees) | | 2.43 |
| 3 | Office Expenses including Legal, Professional & Special Service Charges | | 1.77 |
| 4 | Advertisement & Publicity | | 0.24 |
| 5 | Other A&G Charges | | 0.04 |
| 6 | Others | | 0.37 |
| 7 | Incentives to consumers | | 1.17 |
| 8 | Grant - in - Aid | | 0.72 |
| 9 | Other material related expenses | | 0.07 |
| | Total | | 7.25 |
| 8 | Add/Deduct share of others (to be specified) | | - |
| | Total expenses | | 7.25 |
| 9 | Less: Capitalized | | - |
| | Net expenses | | 7.25 |
| 10 | Add: Prior period | | - |
| | Total A&G Expenses charged to revenue | 3.96 | 7.25 |

3.7.5.1 PED submits that the transport allowance as included in the Table 4-6 was considered in A&G expenses in the accounts. However, in line with the ARR formats, the same has been considered in the employee cost in ARR. Therefore, it is submitted that difference to the tune of transport allowance will be there in employee expenses and A&G expenses as per audited accounts.

3.7.5.2 There is a major increase in the professional charges and office expenses due to payment of license fees corresponding to two years and appointment of consultants to assist in regulatory affairs and as well as for preparing final accounts and asset registers.

3.7.5.3 Also, incentives were provided to HT consumers for maintaining better power factors which has been reflected in the above table.

3.7.5.4 PED therefore requests the Hon'ble Commission to approve the A&G expenses of Rs. 7.25 Crs for FY 2013-14.

3.7.6 **O&M Expenses Summary:** Based on the foregoing paragraphs, the O&M expenses

for the year FY 2013-14 are summarised below:

Table 3-9: O&M Expenses for FY 2013-14

Rs. Crs

| Sr. No. | Particulars | FY 2013-14 | |
|---------|-------------------------------|--------------|--------------|
| | | Approved | Actual |
| 1 | Total Employee Expenses | 64.73 | 72.70 |
| 2 | Total R&M Expenses | 18.06 | 13.46 |
| 3 | Total A&G Expenses | 3.96 | 7.25 |
| | Total O&M Expenses | 86.75 | 93.41 |

3.7.7 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 93.41 Crs for FY 2013-14 as shown in the table above. The details of O&M expense for FY 2013-14 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

3.8 Capital Work in Progress, GFA and Depreciation

3.8.1 **GFA:** The Opening Balance of GFA for FY 2013-14 comes to around Rs. 555.30 Crs as per annual accounts. The following table shows the opening balance, additions and closing balance of GFA for FY 2013-14.

Table 3-10: GFA for FY 2013-14

Rs. Crs

| S. No. | Particulars | Approved | Actual |
|--------|--|---------------|---------------|
| 1 | Opening value of the assets at the beginning of the year | 545.84 | 555.30 |
| 2 | Additions during the year | 10.00 | 8.29 |
| 3 | Value of assets sold/disposed off | | - |
| 4 | Gross Fixed Assets at the end of the year | 555.84 | 563.59 |

3.8.2 PED submits that the Asset and Depreciation registers have been prepared and duly audited fixed assets' gross amount, accumulated depreciation and depreciation for the year have been shown in the accounts for FY 2013-14. PED hereby requests the Hon'ble Commission to approve the actual Gross Fixed Assets opening and additions as submitted above for FY 2013-14.

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

3.8.4 PED would like to submit that the depreciation arrived in annual accounts for FY 2013-14 is based on the rates specified by Hon'ble Commission in its Tariff Regulations.

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

Table 3-11: Rate of Depreciation applicable for various assets

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

3.8.6 The following table shows the depreciation arrived by PED for FY 2013-14 based on the approved depreciation rates specified by the Hon'ble Commission for different asset class. The same is reflecting in the annual audited accounts for respective years.

Table 3-12: Depreciation for FY 2013-14

Rs. Crs

| S. No. | Particulars | Approved | Actual |
|--------|--|---------------|---------------|
| 1 | Opening value of the assets at the beginning of the year | 545.84 | 555.30 |
| 2 | Additions during the year | 10.00 | 8.29 |
| 3 | Value of assets sold /disposed off | | - |
| 4 | Gross Fixed Assets at the end of the year | 555.84 | 563.59 |
| 5 | Net Depreciation for the year | 23.65 | 23.38 |
| 6 | Average Depreciation Rate | 4.29% | 4.18% |

3.8.7 The depreciation for FY 2013-14 is almost in line with the cost approved by Hon'ble Commission. The Hon'ble Commission is requested to approve Rs. 23.38 Crs for FY 2013-14 as submitted in the table above.

3.9 Interest & Finance Charge

3.9.1 The Regulation 25 provides for Interest and Finance Charges on Loan. PED has submitted that the majority of capital assets are created out of the equity contribution from Government of Puducherry and the actual borrowing of loan is only to the extent of the R-APDRP schemes. However, PED has been claiming interest charges based on normative loan calculation. The Interest and Finance Charges arrived is based on normative loan considered to the extent of capitalization during the year. The table below shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission for FY 2013-14.

Table 3-13: Interest & Finance Charges for FY 2013-14

Rs. Crs

| S. No. | Particulars | Approved | Actuals |
|----------|---|--------------|--------------|
| 1 | Opening Normative Loan | 88.37 | 98.30 |
| 2 | Add: Normative Loan during the Year | 7 | 5.80 |
| 3 | Less: Normative Repayment | 9.87 | 9.83 |
| 4 | Closing Normative Loan | 85.5 | 94.27 |
| 5 | Average Normative Loan | 86.94 | 96.28 |
| 6 | Rate of Interest(@SBAR) | 14.45% | 14.45% |
| 7 | Interest on Normative Loan | 12.56 | 13.91 |
| 7 | Other Finance Charges | 1.32 | 1.57 |
| 9 | Total Interest and Finance Charges | 13.88 | 15.48 |

3.9.2 It is submitted that it has considered an addition of Rs. 8.29 Crs in the Gross Fixed Assets for FY 2013-14, which are considered funded through normative debt to the tune of 70% in line with the Tariff Regulations. The rate of interest considered is prevailing Prime Lending Rate of the State Bank of India as on 1st April of that relevant year.

3.9.3 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, L/C., etc. which are claimed along with the interest in Table 3-13 of the Petition. The increase in the bank charges is due to opening of new L/C to the tune of Rs. 19.5 Cr wherein margin money 10% of it was submitted.

3.9.4 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 17.43 Crs for FY 2013-14 as shown in the table above. The details of Interest & Finance charges are provided in Format 10A of the Tariff Filing Formats.

3.10 Interest on Working Capital

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

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

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

(a) Power purchase cost,

(b) Employees cost,

- (c) Administration & general expenses and
(d) Repair & Maintenance expenses.

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

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

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

3.10.2 The petitioner hereby submits that it has adopted the same methodology adopted by the Hon'ble Commission in its tariff order for FY 2013-14 for arriving at the working capital requirement whereby it has excluded the available security deposits available with the petitioner from the working capital requirement though the same has not been specified in the Regulations.

3.10.3 The Interest on Working Capital approved by the Hon'ble Commission and claimed for FY 2013-14 is Nil since the opening Security Deposit was much higher than the working capital requirement.

Table 3-14: Interest on Working Capital for FY 2013-14

Rs. Crs

| S. No. | Particulars | Approved | Actuals |
|--------|---|-------------|-------------|
| 1 | Power Purchase Cost-1 month | 79.8 | 82.84 |
| 2 | Employee Cost-1 month | 5.39 | 6.06 |
| 3 | Administration and General Expenses-1 Month | 0.33 | 1.12 |
| 4 | R&M cost-1 month | 1.51 | 0.60 |
| 5 | Less: Security deposit opening balance | 109.72 | 95.90 |
| 6 | Total Working Capital for one month | (22.69) | (5.28) |
| 7 | Interest Rate | 14.75% | 14.75% |
| 8 | Interest on Working Capital | 0.00 | 0.00 |

3.11 Security Deposits

3.11.1 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 8.50% for FY 2013-14.

Table 3-15: Interest on Security Deposit for FY 2013-14

| S. No. | Particulars | Approved | Actuals |
|----------|--------------------------------------|-------------|-------------|
| 1 | Opening Security Deposit | 95.89 | 95.90 |
| 2 | Add: Deposits during the year | 27.66 | 27.58 |
| 3 | Less: Deposits refunded | | |
| 4 | Less: Deposits in the form of BG/FDR | | |
| 5 | Closing Security Deposit | 123.55 | 123.48 |
| 6 | Bank Rate | 8.50% | 8.50% |
| 7 | Interest on Security Deposit | 9.33 | 9.32 |

3.11.2 The Hon'ble Commission is requested to approve the Interest on Security Deposit of **Rs. 9.32 Crs** for FY 2013-14 as showcased in the table above. However, PED submits that since there has been no payment made to the consumers in relation to the interest on the security deposit, the same has not been claimed in the ARR of the relevant year i.e. FY 2013-14. However, the cumulative adjustment of interest on security deposit in line with the principles adopted by the Hon'ble Commission in Tariff Order dated 25th April 2014 has been carried out by PED in the subsequent chapter of this petition.

3.12 Return on Capital Base/ Net Fixed Assets

3.12.1 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.

3.12.2 The Hon'ble Commission its last tariff order clarified regarding the computation of return on capital base. The relevant excerpts are mentioned below.

"The Commission observes that in the computation of the Return on Capital Base as per the earlier Tariff Orders, the Commission has inadvertently included the opening CWIP and opening Debts figures. The Commission hereby corrects the computation of the same."

3.12.3 Thus, in line with the regulation and the methodology adopted by the Hon'ble Commission in its previous order, PED has calculated the return on capital base at 3%. The summary of the Return on Net Fixed Assets as claimed by the petitioner, as approved by the Hon'ble Commission and as calculated for FY 2013-14 is tabulated

below:

Table 3-16: Return on NFA for FY 2013-14

Rs. Crs

| S. No. | Particulars | Approved | Actuals |
|--------|---|-------------|-------------|
| 1 | Gross Block at the beginning of the year | | 555.30 |
| 2 | Less: Accumulated depreciation | | 251.25 |
| 3 | Net Fixed Assets | | 304.04 |
| 4 | Less: Accumulated consumer contribution | | 8.00 |
| 5 | Net fixed assets at the beginning of the year | | 296.05 |
| 6 | Reasonable Return @ 3% of NFA | 9.87 | 8.88 |

3.12.4 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Net Fixed Assets of **Rs. 8.88 Crs** for FY 2013-14.

3.13 Non-Tariff Income

3.13.1 The Non-Tariff Income comprises metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. The Non-Tariff Income approved by the Hon'ble Commission in the APR for FY 2013-14 was Rs. 16.50 Crs.

3.13.2 The details of Non-Tariff Income for FY 2013-14 are provided in **Format 20 of the Tariff Filing Formats**

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

Table 3-17: Non-Tariff Income for FY 2013-14

Rs. Crs

| S. No. | Particulars | Approved | Actuals |
|--------|--------------------------------|--------------|--------------|
| 1 | UI Sales/ sales to exchange | | 23.29 |
| 2 | Income from trading | | 0.08 |
| 3 | Misc. receipts/ income | | 3.35 |
| 4 | Total income | | 26.72 |
| 5 | Add: Prior period income | | |
| 6 | Total Non-Tariff Income | 16.50 | 26.72 |

3.13.4 In view of UI sales being the major income which is non-tariff in nature as mentioned above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of **Rs. 26.72 Crs** for FY 2013-14.

3.14 Revenue from Sale of Power at Existing Tariff

3.14.1 The Revenue from Tariff for FY 2013-14 was Rs. 1,045.82 Crs including FPPCA and Rs. 101.76 Crs as 10% additional Surcharge. The actual revenue earned from tariffs for FY 2013-14 is shown in the table below:

Table 3-18: Revenue from Tariff for FY 2013-14

Rs. Crs

| S. No. | Particulars | Sales (MUs) | Revenue (Rs.Crs) |
|--------------------|--|----------------|------------------|
| LT Category | | | |
| 1 | Domestic | 600 | 133.41 |
| 2 | OHOB | 12.09 | 1.07 |
| 3 | Commercial | 181 | 88.33 |
| 4 | Agriculture | 57 | 1.81 |
| 5 | Public Lighting | 26 | 13.89 |
| 6 | LT Industrial | 174.5 | 76.88 |
| 7 | Water Tank | 51.6 | 23.74 |
| 8 | Temporary Supply-LT&HT | 10.1 | 9.09 |
| | Total LT | 1112.29 | 348.22 |
| HT Category | | | |
| 9 | HT 1 Industrial / Commercial | 878.01 | 476.26 |
| 10 | HT 2 - Government & Water Tank | 48.77 | 27.32 |
| 11 | HT 3 - EHT | 326.65 | 168.71 |
| 12 | Total HT | 1253.43 | 672.29 |
| 13 | Total LT and HT | 2365.72 | 1020.52 |
| 14 | FPPCA | | 22.76 |
| 15 | 10% Surcharge | | 101.47 |
| 16 | Provision for accrued bill | | 2.54 |
| 17 | Total | 2365.72 | 1147.29 |
| | As approved in Tariff order dated 25th April, 2014 | 2406.12 | 1084.99 |

3.14.2 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 1,045.82 Crs including FPPCA and Rs. 101.47 Crs as 10% additional Surcharge thus totaling to Rs. 1147.29 Crs.

3.15 Aggregate Revenue Requirement for FY 2013-14

3.15.1 The Aggregate Revenue Requirement for FY 2013-14 as approved by the Hon'ble Commission in the Review of ARR for FY 2013-14 was Rs. 1,127.61 Crs. The calculation for Aggregate Revenue Requirement on the basis of actuals for FY 2013-14 is shown below:

Table 3-19: Calculation of ARR for FY 2013-14

Rs. Crs

| S. No. | Particulars | Claimed in APR | Approved by Commission | Claimed in True-up |
|--------|---|----------------|------------------------|--------------------|
| 1 | Cost of power purchase | 984.77 | 1002.78 | 994.04 |
| 2 | Employee Costs | 69.69 | 64.73 | 72.70 |
| 3 | Administration and General Expenses | 3.96 | 3.96 | 7.25 |
| 4 | R&M expenses | 20.15 | 18.06 | 13.46 |
| 5 | Depreciation | 23.65 | 23.65 | 23.38 |
| 6 | Interest & Finance Charges | 4.53 | 13.88 | 15.48 |
| 7 | Interest on Working Capital + Interest on CSD | 8.39 | 7.18 | - |
| 8 | Return on NFA/ Equity | 9.85 | 9.87 | 8.88 |
| 9 | Provision for Bad Debt | - | - | - |
| 10 | Total Revenue Requirement | 1124.99 | 1144.11 | 1135.19 |
| 11 | Less: Non- Tariff Income | 16.5 | 16.5 | 26.72 |
| 12 | Net Aggregate Revenue Requirement | 1108.49 | 1127.61 | 1108.47 |

3.15.2 The Petitioner hereby requests the Commission to approve the ARR of Rs. 1,108.47 Crs for FY 2013-14 as submitted above.

3.16 Revenue Gap for FY 2013-14

3.16.1 The Revenue Gap approved by the Hon'ble Commission for FY 2013-14 was Rs. 42.62 Crs.

3.16.2 The Revenue Gap as approved by the Hon'ble Commission and as calculated on the basis of provisional true up of FY 2013-14 is shown in the table below:

Table 3-20: Revenue Gap for FY 2013-14

Rs. Crs

| S. No. | Particulars | Approved | Actuals |
|--------|--|----------|---------|
| 1 | Aggregate Revenue Requirement | 1127.61 | 1108.47 |
| 2 | Revenue from Sale of Power (Excluding Surcharge) | 1084.99 | 1045.82 |
| 3 | Revenue Gap/ (Surplus) | 42.62 | 62.65 |

3.16.1 The above gap is calculated without considering the 10% surcharge amount levied to consumer in FY 2013-14 as directed in the Tariff Order. PED submits that the 10% surcharge collected has been adjusted against the Regulatory Assets as per the previous Tariff Order and the treatment of the same is explained in the subsequent chapters related to calculation of total revenue gap. However, Hon'ble Commission is requested to approve the revenue gap for FY 2013-14 as shown in the table above.

CHAPTER 4. PROVISIONAL TRUE UP OF FY 2014-15

4.1 Preamble

4.1.1 This section outlines the performance of Puducherry Electricity Department (PED) for FY 2014-15. PED submits that the audit of the accounts are in the process and therefore it submits the provisional actual for FY 2014-15 in this petition for provisional truing up along with the comparison of the approved figures by Hon'ble Commission vide tariff order dated 25th April 2014. PED submits that since the accounts has already been finalized, the variation with the audited accounts may be marginal. Also, the Audited accounts for FY 2014-15 will be submitted to the Hon'ble Commission during the present MYT regulatory proceedings.

4.1.2 This chapter summarizes each of the components of ARR for FY 2014-15 and thereby working out the revenue gap for that year.

4.2 Approved ARR for FY 2014-15

4.2.1 The summary of the charges for FY 2014-15 claimed by the petitioner in the last petition and as approved by the Hon'ble Commission in the last Tariff Order dated 10th April 2015 is tabulated below:

Table 4-1: APR of FY 2014-15 as per Tariff Order dated 10th April 2015

| Rs. Crs | | | |
|---------|---|----------------|------------------------|
| S. No. | Particulars | Claimed in APR | Approved in Commission |
| 1 | Cost of power purchase including RPO provision to meet obligation of the previous years | 970.62 | 963.84 |
| 2 | Employee Cost | 75.32 | 75.32 |
| 3 | Administration and General Expenses | 5.36 | 5.36 |
| 4 | R&M Expenses | 19.12 | 19.12 |
| 5 | Depreciation | 30.86 | 30.86 |
| 6 | Interest and Finance Charges | 19.38 | 19.38 |
| 7 | Interest on Working Capital +Interest on CSD | 4.00 | 4.00 |
| 8 | Return on NFA / Equity | 10.67 | 8.37 |
| 9 | Provision for Bad Debt | - | - |
| 10 | Total Revenue Requirement | 1135.33 | 1126.25 |
| 11 | Less: Non- Tariff Income | 4.88 | 4.88 |
| 12 | Net Aggregate Revenue Requirement | 1130.45 | 1121.37 |
| 13 | Revenue from Existing Tariff | 1142.70 | 1142.70 |
| 14 | Revenue Gap | (12.25) | (21.33) |

4.3 Number of Consumers

4.3.1 Based on the unaudited accounts, PED submits before the Hon'ble Commission the actual consumer numbers for FY 2014-15 in comparison of the approved numbers as highlighted below:

Table 4-2: Details of No. of Consumer Numbers for FY 2014-15

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|------------------------------|---------------|---------------------|
| 1 | Domestic and OHOB | 317305 | 322034 |
| 2 | Commercial | 46511 | 46938 |
| 3 | Agriculture | 6836 | 6849 |
| 4 | Public Lighting | 49891 | 49893 |
| 5 | LT Industrial | 6424 | 6423 |
| 6 | Total LT | 426967 | 432137 |
| 7 | HT 1 Industrial & Commercial | 415 | 412 |
| 8 | HT 2 Government & Water Tank | 51 | 53 |
| 9 | HT 3 EHT | 7 | 7 |
| 10 | Total HT | 473 | 472 |
| 11 | Total LT and HT | 427440 | 432609 |

4.3.2 It is requested to Hon'ble Commission to consider the number of consumers as submitted in the above table for FY 2014-15.

4.4 Energy Sales

4.4.1 The total sales of PED for FY 2014-15 are **2,366.31** MU's. The category wise actual and approved sales for FY 2014-15 are shown in the table below.

Table 4-3: Sales for FY 2014-15

MU's

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|------------------------------|----------------|---------------------|
| 1 | Domestic | 703.94 | 635.22 |
| 2 | OHOB | | 10.00 |
| 3 | Commercial | 187.84 | 182.22 |
| 4 | Agriculture | 57.00 | 57.00 |
| 5 | Public Lighting | 26.00 | 26.00 |
| 6 | LT Industrial | 199.12 | 198.90 |
| 7 | Temporary Supply - LT&HT | 14.00 | 6.12 |
| 8 | Total LT | 1187.90 | 1115.46 |
| 9 | HT 1 Industrial & Commercial | 897.94 | 875.29 |
| 10 | HT 2 Government & Water Tank | 59.60 | 55.96 |
| 11 | HT 3 EHT | 335.34 | 319.60 |
| 12 | Total HT | 1292.88 | 1250.85 |
| 13 | Total LT and HT | 2480.78 | 2366.31 |

4.4.2 PED submits that the reduced sale in FY 2014-15 is due to poor industrial growth and performance. The reduced consumption by steel companies due to poor market demand has also hampered the expected sales growth in FY 2014-15. The above reasons have resulted in a lower sale as compared to the sales approved by the Hon'ble Commission.

4.4.3 Based on the above submission PED requests the Hon'ble Commission to approve the actual sales for FY 2014-15 as stated in the table above.

4.5 Distribution Loss & Energy Requirement

4.5.1 PED has submitted 12.30% as the energy distribution losses for FY 2014-15 as compared to that approved by Hon'ble Commission at 12.00%. The comparison of Energy balance statement and the loss levels based on unaudited accounts and approved figures are shown in the table below:

Table 4-4: Distribution Loss and Energy Balance for FY 2014-15

| S. No. | Particulars | Approved | Provisional Actuals |
|----------|--|----------------|---------------------|
| A | ENERGY REQUIREMENT | | |
| 1 | Energy Sales within the UT | 2480.78 | 2366.31 |
| 2 | Energy Drawal by TANGEDCo* | 0.00 | 23.92 |
| 3 | Distribution Losses (%) | 12.00% | 12.30% |
| 4 | Energy Required for the Territories | 2819.07 | 2725.41 |
| 5 | Add: Sales to Commom Pool Consumers/UI | 41.8 | 51.34 |
| 6 | Energy Requirement at periphery | 2860.87 | 2776.75 |
| B | ENERGY AVAILABILITY | | |
| 1 | Gross Energy Energy Purchase | 2996.47 | 2908.60 |
| 2 | External Losses (MU) | 135.6 | 131.86 |
| 3 | Net Energy Availability | 2860.87 | 2776.75 |

**The explanation for the same has been provided in para 4.5.2 below.*

4.5.2 At Puducherry, pockets of Tamilnadu region are being fed by Puducherry 110kV sub-station at 22kV level feeders. These feeders are metered at sub-station end. Normally, Puducherry region draws certain power from TNEB 110kV feeder and TNEB would bill PED after deducting energy consumption by their 22kV feeders. During the year FY 2014-15, due to surplus power available with Puducherry from CGS, PED has not drawn any power from 110kV TNEB feeders. The matter has been taken up with TNEB at Chennai to deduct their 22kV feeder consumption at Puducherry region from the TNEB sale of power at Karaikal region. The above adjustment is yet to be made by TNEB.

4.5.3 The petitioner submits that the department has not made significant capex specifically towards reduction of transmission and distribution loss. Given the consumer sale mix, wherein the growth of LT consumers is higher than HT consumers, it is difficult for the utility to maintain the commission approved T&D loss levels.

4.5.4 PED submits that in comparison with the approved figures, actual T&D losses are marginally higher and therefore request the Hon'ble Commission to approve the Distribution Loss of 12.30% for FY 2014-15.

4.6 Power Purchase Quantum & Cost for FY 2014-15

4.6.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and state utilities like TANGEDCO, KSEB and PPCL. PPCL is a generating company within the UT of Puducherry catering to the requirement of Karaikal region. KSEB supplies for Mahe region under the UT of Puducherry. Also from FY 2014-15, supply from Kudankulam Nuclear Plant and Vallur Thermal Plant has also been started resulting in additional power allocation to the Union Territory, Puducherry to meet the demand.

4.6.2 The table below shows the summary of actual (provisional) Power Purchase from various sources along with their costs for FY 2014-15 including Transmission Charges, UI charges and purchase from traders.

Table 4-5: Power Purchase Quantum & Cost for FY 2014-15

| S. No. | Particulars | Approved (FY 2014-15) | | | Provisional Actuals (FY 2014-15) | | |
|-----------|----------------------|-----------------------|----------------|-----------------|----------------------------------|----------------|-----------------|
| | | Purchase (MUs) | Cost (Rs. Cr.) | Rate (Rs./unit) | Purchase (MUs) | Cost (Rs. Cr.) | Rate (Rs./unit) |
| 1 | NTPC | 1014.33 | 294.57 | 2.90 | 1051.78 | 289.59 | 2.75 |
| 2 | NLC | 889.55 | 259.69 | 2.92 | 812.25 | 239.90 | 2.95 |
| 3 | NPCIL | 390.20 | 81.15 | 2.08 | 415.47 | 116.15 | 2.80 |
| 4 | KSEB | 41.49 | 21.88 | 5.27 | 41.91 | 23.31 | 5.56 |
| 5 | TANGEDCO | 428.72 | 148.78 | 3.47 | 356.11 | 123.57 | 3.47 |
| 6 | PPCL | 114.95 | 56.98 | 4.96 | 95.40 | 38.85 | 4.07 |
| 7 | Vallur | 91.90 | 33.26 | 3.62 | 85.04 | 32.02 | 3.77 |
| 8 | Over drawal | 25.34 | 1.38 | 0.54 | 50.64 | 5.84 | 1.15 |
| 9 | Transmission Charges | | 63.38 | | | 72.80 | |
| 10 | Rebate | | (12.49) | | | (15.19) | |
| 11 | RPO Obligations | | 15.26 | | | 13.60 | |
| 12 | Total | 2996.48 | 963.84 | 3.22 | 2908.60 | 940.45 | 3.23 |

4.6.3 PED submits that for the FY 2014-15, RPO provision allowed by the Hon'ble Commission was Rs. 15.26 Crs against which Rs. 13.60 Crs has been incurred towards meeting the Renewable obligation. However, based on the RPO regulations as issued by JERC, a separate working has been calculated for estimation of RPO which is covered in the subsequent section of this petition.

4.6.4 The Hon'ble Commission is requested to approve Rs. 940.45 Crs for FY 2014-15 as power purchase cost (provisional actual) incurred during the year.

4.7 Operation & Maintenance Expenses

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

- Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses

- Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.
- Repairs and Maintenance Expenses go towards the day to day upkeep of the distribution network of the Company and form an integral part of the Company's efforts towards reliable and quality power supply as well as in the reduction of losses in the system.

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

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

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

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

4.7.3 **Employee Expenses:** PED has computed the O&M (Employee) expense for FY 2014-15 based on the actual employee expenses incurred during the entire year.

4.7.3.1 The employee cost incurred during the year for FY 2014-15 is Rs. 75.93 Crores.

Table 4-6: Employee Expenses for FY 2014-15

| Rs. Crs | | | |
|---------|-----------------------------------|--------------|---------------------|
| S. No. | Particulars | Approved | Provisional Actuals |
| | Salaries & Allowances | | |
| 1 | Salary | | 87.78 |
| 2 | Wages | | 0.64 |
| 3 | Stipend | | 0.40 |
| 4 | Transport Allowance | | 0.47 |
| 5 | Overtime Allowance | | 0.78 |
| | Total | | 90.07 |
| 6 | Less: Add/ Deduct Share of Others | | 1.94 |
| | Total | | 88.13 |
| 7 | Less: Amount Capitalised | | 12.21 |
| 8 | Net Amount | | 75.93 |
| 9 | Add: Prior Period Expenses | | |
| | Total Employee Expenses | 75.32 | 75.93 |

4.7.3.2 PED submits that the transport allowance as included in the Table 4-6 is considered in A&G expenses in the accounts. However, in line with the ARR formats, the same has been considered in the employee cost in ARR. Therefore, it is submitted that difference to the tune of transport allowance will be there in employee expenses and A&G expenses as per accounts.

4.7.3.3 PED requests the Hon'ble Commission to kindly approve the actual cost during the year for FY 2014-15 as reflecting in annual accounts.

4.7.4 **Repairs & Maintenance Expenses:** The repairs and maintenance cost has been claimed as per expenses actually incurred during FY 2014-15.

Table 4-7: R&M Expenses for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|--------------|----------|---------------------|
| 1 | R&M Expenses | 19.12 | 7.71 |

4.7.4.1 As seen from the table above R&M expenses incurred actually for FY 2014-15 were much less than the approved level.

4.7.4.2 PED submits that the R&M expense is being met from budgetary provision and therefore is limited to the amount allocated under such budgetary provision only.

4.7.4.3 PED submits that R&M expenses are necessary for maintenance of infrastructure and for ensuring proper Standard of Performance of the utility. PED therefore requests the Hon'ble Commission to approve Rs. 7.71 Crs for FY 2014-15 as R&M expenses.

4.7.5 **Administration & General expenses:** The administrative expense mainly comprise of rents, professional charges, office expenses, etc. The expenses incurred by the petitioner for FY 2014-15 are shown in the table below.

Table 4-8 A&G Expenses for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|-----------|---|-------------|---------------------|
| 1 | Rent,Rate and taxes | | 0.54 |
| 2 | Other Professional charges including regulatory expenses(License and Petition fees) | | 2.54 |
| 3 | Office Expenses including Legal, professional and special service charge | | 2.66 |
| 4 | Advertisement & Publicity | | 0.30 |
| 5 | Other A&G expenses | | 0.04 |
| 6 | Others | | 0.26 |
| 7 | Incentive to Consumers | | 4.54 |
| 8 | Grant in Aid | | 0.00 |
| 9 | Other material related expense | | 0.05 |
| 10 | EESL Charges | | 3.65 |
| 11 | Total | | 14.59 |
| 12 | Add/deduct share of others | | - |
| 13 | Total Expenses | | 14.59 |
| 14 | Less: Capitalised | | - |
| 15 | Net expenses | | 14.59 |
| 16 | Add: Prior period | | - |
| 17 | Total A&G Expenses charges to revenue | 5.36 | 14.59 |

- 4.7.5.1 PED submits that the transport allowance as included in the Table 4-6 is considered in A&G expenses in the accounts. However, in line with the ARR formats, the same has been considered in the employee cost in ARR. Therefore, it is submitted that difference to the tune of transport allowance will be there in employee expenses and A&G expenses as per accounts.
- 4.7.5.2 There is a major increase in the Professional charges and Office expenses due to payment of license fees and appointment of consultants to assist in regulatory affairs, preparing final accounts and asset registers and for internal audit.
- 4.7.5.3 An amount of Rs. 3.65 Crores has been incurred by PED towards payment of EESL charges related to DELP scheme approved by the Commission.
- 4.7.5.4 The Hon'ble Commission is therefore requested to approve the A&G expenses of Rs. 14.59 Crs for FY 2014-15.
- 4.7.6 **O&M Expenses Summary:** Based on the foregoing paragraphs, the O&M expenses for the year FY 2014-15 are summarised below:

Table 4-9: O&M Expenses for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|-------------------------------|--------------|---------------------|
| 1 | Total Employee Expenses | 75.32 | 75.93 |
| 2 | Total R&M Expenses | 19.12 | 7.71 |
| 3 | Total A&G Expenses | 5.36 | 14.59 |
| | Total O&M Expenses | 99.80 | 98.23 |

4.7.7 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 98.23 Crs for FY 2014-15 as shown in the table above. The details of O&M expense for FY 2014-15 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

4.8 Capital Work in Progress, GFA and Depreciation

4.8.1 **GFA:** The Opening Balance of GFA for FY 2014-15 comes to around Rs. 563.59 Crs as per provisional accounts. The following table shows the opening balance, additions and closing balance of GFA for FY 2014-15.

Table 4-10: GFA for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|--|---------------|---------------------|
| 1 | Opening value of the assets at the beginning of the year | 563.59 | 563.59 |
| 2 | Additions during the year | 48.00 | 70.39 |
| 3 | Value of assets sold/disposed off | | - |
| 4 | Gross Fixed Assets at the end of the year | 611.59 | 633.98 |

4.8.2 PED submits that the Asset and Depreciation registers have been prepared and duly fixed assets' gross amount, accumulated depreciation and depreciation for the year have been shown in the accounts for FY 2014-15. PED hereby requests the Hon'ble Commission to approve the actual Gross Fixed Assets opening and additions as submitted above for FY 2014-15.

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

4.8.4 PED would like to submit that the depreciation arrived in annual accounts for FY 2014-15 is based on the rates specified by Hon'ble Commission in its Tariff Regulations.

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

Table 4-11: Rate of Depreciation applicable for various assets

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

4.8.6 The following table shows the depreciation arrived by PED for FY 2014-15 based on the approved depreciation rates specified by the Hon'ble Commission for different asset class. The same is reflecting in the annual audited accounts for respective years.

Table 4-12: Depreciation for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|--|---------------|---------------------|
| 1 | Opening value of the assets at the beginning of the year | 563.59 | 563.59 |
| 2 | Additions during the year | 48.00 | 70.39 |
| 3 | Value of assets sold /disposed off | | - |
| 4 | Gross Fixed Assets at the end of the year | 611.59 | 633.98 |
| 5 | Net Depreciation for the year | 30.86 | 25.92 |
| 6 | Average Depreciation Rate | 5.25% | 4.33% |

4.8.7 The Hon'ble Commission is requested to approve Rs. 25.92 Crs for FY 2014-15 as submitted in the table above.

4.9 Interest & Finance Charge

4.9.1 The Regulation 25 provides for Interest and Finance Charges on Loan. PED has submitted that the majority of capital assets are created out of the equity contribution from Government of Puducherry and the actual borrowing of loan is only to the extent of the R-APDRP schemes. However PED has been claiming interest charges based on normative loan calculation. The Interest and Finance Charges arrived is based on normative loan considered to the extent of capitalization during the year. The table below shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission for FY 2014-15.

Table 4-13: Interest & Finance Charges for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|----------|---|--------------|---------------------|
| 1 | Opening Normative Loan | 94.27 | 94.27 |
| 2 | Add: Normative Loan during the Year | 33.60 | 49.28 |
| 3 | Less: Normative Repayment | 9.43 | 9.43 |
| 4 | Closing Normative Loan | 118.44 | 134.12 |
| 5 | Average Normative Loan | 106.36 | 114.19 |
| 6 | Rate of Interest(@SBAR) | 14.75% | 14.75% |
| 7 | Interest on Normative Loan | 15.69 | 16.84 |
| 7 | Other Finance Charges | 3.69 | 1.96 |
| 9 | Total Interest and Finance Charges | 19.38 | 18.81 |

4.9.2 It is submitted that it has considered an addition of Rs. 49.28 Crs in the Gross Fixed Assets for FY 2014-15, which are considered funded through normative debt to the tune of 70%. The rate of interest considered is prevailing Prime Lending Rate of the State Bank of India as on 1st April of that relevant year.

4.9.3 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, L/C., etc. which are claimed along with the interest in Table 4-13 of the Petition.

4.9.4 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 18.81 Crs for FY 2014-15 as shown in the table above. The details of Interest & Finance charges are provided in Format 10A of the Tariff Filing Formats.

4.10 Interest on Working Capital

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

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

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

(a) Power purchase cost,

(b) Employees cost,

(c) Administration & general expenses and

(d) Repair & Maintenance expenses.

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

(a) Power purchase cost

(b) Employees cost

(c) Administration & general expenses

(d) Repair & Maintenance expenses.

(e) Sum of two month requirement for meeting Fuel cost.

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

4.10.2 The petitioner hereby submits that it has adopted the same methodology adopted by the Hon'ble Commission in its tariff order for FY 2014-15 for arriving at the working capital requirement whereby it has excluded the available security deposits available with the petitioner from the working capital requirement though the same has not been specified in the Regulations.

4.10.3 The Interest on Working Capital approved by the Hon'ble Commission and claimed for FY 2014-15 is Nil since the opening Security Deposit was much higher than the working capital requirement.

Table 4-14: Interest on Working Capital for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|---|-------------|---------------------|
| 1 | Power Purchase Cost-1 month | 80.32 | 78.37 |
| 2 | Employee Cost-1 month | 6.28 | 6.33 |
| 3 | Administration and General Expenses-1 Month | 0.45 | 1.22 |
| 4 | R&M cost-1 month | 1.59 | 0.64 |
| 5 | Less: Security deposit opening balance | 123.48 | 123.48 |
| 6 | Total Working Capital for one month | (34.84) | (36.92) |
| 7 | Interest Rate | 14.75% | 14.75% |
| 8 | Interest on Working Capital | 0.00 | 0.00 |

4.11 Security Deposits

4.11.1 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% for FY 2014-15.

Table 4-15: Interest on Security Deposit for FY 2014-15

| S. No. | Particulars | Approved | Provisional Actuals |
|----------|--|--------------|---------------------|
| 1 | Opening Security Deposit | 123.48 | 123.48 |
| 2 | Add: Deposits during the year | 27.58 | 21.31 |
| 3 | Less: Deposits refunded | | |
| 4 | Less: Deposits n the form of BG/FDR | | |
| 5 | Closing Security Deposit | 151.06 | 144.79 |
| 6 | Bank Rate | 9.00% | 8.50% |
| 7 | Interest on Security Deposit | 12.35 | 11.40 |
| 8 | Interest on security deposit paid | 4.00 | 2.02 |
| 9 | Interest on security deposit provisioned | 8.35 | 9.38 |

4.11.2 The Hon'ble Commission is requested to approve the Interest on Security Deposit of Rs. 2.02 Crs paid for FY 2014-15 as showcased in the table above. The cumulative adjustment of interest on security deposit for the remaining amount provisioned in FY 2014-15 in line with the principles adopted by the Hon'ble Commission in Tariff Order dated 25th April 2014 has been carried out by PED in the subsequent chapter of this petition.

4.12 Provision for bad debts

4.12.1 As per regulation 28 of Tariff Regulations 2009, Commission may allow a provision for bad debts up to 1% of receivables in the revenue requirement of the generating company / licensee. The relevant excerpts of the regulation are provided below.

" 28. Bad and Doubtful Debts:

The Commission may, after the generating company / licensee gets the receivables audited, allow a provision for bad debts up to 1% of receivables in the revenue requirement of the generating company / licensee. "

4.12.2 As per the note (9) of the notes to accounts for FY 2014-15, out of sundry debtors of Rs. 475.44 Crs, Rs. 259.59 Crs is the sundry debtors as per the information available in the billing system of PED. Hence, we are claiming a provision of 1% of 259.59 Crs for bad & doubtful debts in the ARR of FY 2014-15.

Table 4-16: Bad and Doubtful Debts for FY 2014-15

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|------------------------|----------|---------------------|
| 1 | Bad and Doubtful Debts | - | 2.60 |

4.12.3 The Hon'ble Commission is requested to kindly allow Rs. 2.60 Crs as provision for bad

and doubtful debts in the ARR of FY 2014-15.

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, PED has calculated the return on capital base at 3%. The summary of the Return on Net Fixed Assets as claimed by the petitioner, as approved by the Hon'ble Commission and as calculated for FY 2014-15 is tabulated below:

Table 4-17: Return on NFA for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|---|-------------|---------------------|
| 1 | Gross Block at the beginning of the year | 563.59 | 563.59 |
| 2 | Less: Accumulated depreciation | 274.63 | 274.63 |
| 3 | Net Fixed Assets | 288.96 | 288.96 |
| 4 | Less: Accumulated consumer contribution | 9.92 | 9.92 |
| 5 | Net fixed assets at the beginning of the year | 279.04 | 279.04 |
| 6 | Reasonable Return @ 3% of NFA | 8.37 | 8.37 |

4.13.2 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Net Fixed Assets of **Rs. 8.37 Crs** for FY 2014-15.

4.14 Non-Tariff Income

4.14.1 The Non-Tariff Income comprises metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. The Non-Tariff Income approved by the Hon'ble Commission in the ARR for FY 2014-15 was Rs. 4.88 Crs.

4.14.2 The details of Non-Tariff Income for FY 2014-15 are provided in **Format 20 of the Tariff Filing Formats**

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

Table 4-18: Non-Tariff Income for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|--------------------------------|-------------|---------------------|
| 1 | UI Sales/ sales to exchange | 1.27 | 2.06 |
| 2 | Income from trading | | 0.06 |
| 3 | Misc. receipts/ income | 3.61 | 2.48 |
| 4 | Total income | 4.88 | 4.60 |
| 5 | Add: Prior period income | | |
| 6 | Total Non-Tariff Income | 4.88 | 4.60 |

4.14.4 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of **Rs. 4.60 Crs** for FY 2014-15.

4.15 Revenue from Sale of Power at Existing Tariff

4.15.1 The Revenue from Tariff for FY 2014-15 was Rs. 1,077.06 Crs including FPPCA and Rs. 103.94 Crs as 10% additional Surcharge. The actual revenue earned from tariffs for FY 2014-15 is shown in the table below:

Table 4-19: Revenue from Tariff for FY 2014-15

| Rs. Crs | | | |
|--------------------|--|----------------|------------------|
| S. No. | Particulars | Sales (MUs) | Revenue (Rs.Crs) |
| LT Category | | | |
| 1 | Domestic | 635.22 | 153.56 |
| 2 | OHOB | 10 | 1.07 |
| 3 | Commercial | 182.22 | 90.47 |
| 4 | Agriculture | 57 | 1.81 |
| 5 | Public Lighting | 26 | 14.43 |
| 6 | LT Industrial | 164.05 | 74.43 |
| 7 | Water Tank | 34.85 | 15.69 |
| 8 | Temporary Supply-LT&HT | 6.12 | 5.51 |
| | Total LT | 1115.46 | 356.96 |
| HT Category | | | |
| 9 | HT 1 Industrial / Commercial | 875.29 | 478.94 |
| 10 | HT 2 - Government & Water Tank | 55.96 | 31.93 |
| 11 | HT 3 - EHT | 319.6 | 174.40 |
| 12 | Total HT | 1250.85 | 685.27 |
| 13 | Total LT and HT | 2366.31 | 1042.23 |
| 14 | FPPCA | | 34.83 |
| 15 | 10% Surcharge | | 103.94 |
| 17 | Total | 2366.31 | 1181.00 |
| | As approved in Tariff order dated 10th April, 2015 | 2480.78 | 1253.20 |

4.15.2 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 1,077 Crs including FPPCA and Rs. 103.94 Crs as 10% additional Surcharge.

4.16 Aggregate Revenue Requirement for FY 2014-15

4.16.1 The Aggregate Revenue Requirement for FY 2014-15 as approved by the Hon'ble Commission in the Review of ARR for FY 2014-15 was Rs. 1,127.61 Crs. The calculation for Aggregate Revenue Requirement on the basis of actuals (provisional) for FY 2014-15 is shown below:

Table 4-20: Calculation of ARR for FY 2014-15

Rs. Crs

| S. No. | Particulars | Claimed in APR | Approved by Commission | Claimed in True-up |
|-----------|---|----------------|------------------------|--------------------|
| 1 | Cost of power purchase | 970.62 | 963.84 | 940.45 |
| 2 | Employee Costs | 75.32 | 75.32 | 75.93 |
| 3 | Administration and General Expenses | 5.36 | 5.36 | 14.59 |
| 4 | R&M expenses | 19.12 | 19.12 | 7.71 |
| 5 | Depreciation | 30.86 | 30.86 | 25.92 |
| 6 | Interest & Finance Charges | 19.38 | 19.38 | 18.81 |
| 7 | Interest on Working Capital + Interest on CSD | 4 | 4 | 2.02 |
| 8 | Return on NFA/ Equity | 10.67 | 8.37 | 8.37 |
| 9 | Provision for Bad Debt | - | - | 2.60 |
| 10 | Total Revenue Requirement | 1135.33 | 1126.25 | 1096.40 |
| 11 | Less: Non- Tariff Income | 4.88 | 4.88 | 4.60 |
| 12 | Net Aggregate Revenue Requirement | 1130.45 | 1121.37 | 1091.80 |

4.16.2 The Petitioner hereby requests the Commission to approve the ARR of Rs. 1,091.80 Crs for FY 2014-15 as submitted above.

4.17 Revenue Gap for FY 2014-15

4.17.1 The Revenue Gap approved by the Hon'ble Commission for FY 2014-15 was Rs. 21.33 Crs surplus.

4.17.2 The Revenue Gap as approved by the Hon'ble Commission and as calculated on the basis of provisional true up of FY 2014-15 is shown in the table below:

Table 4-21: Revenue Gap for FY 2014-15

Rs. Crs

| S. No. | Particulars | Approved | Provisional Actuals |
|--------|--|----------|---------------------|
| 1 | Aggregate Revenue Requirement | 1121.37 | 1091.80 |
| 2 | Revenue from Sale of Power (Excluding Surcharge) | 1142.70 | 1077.06 |
| 3 | Revenue Gap/ (Surplus) | (21.33) | 14.74 |

4.17.3 The above gap is calculated without considering the 10% surcharge amount levied to consumer in FY 2014-15 as directed in the Tariff Order. PED submits that the 10% surcharge collected has been adjusted against the Regulatory Assets as per the previous Tariff Order and the treatment of the same is explained in the subsequent chapters related to calculation of total revenue gap. However, Hon'ble Commission is requested to approve the revenue gap for FY 2014-15 as shown in the table above.

CHAPTER 5. ANNUAL PERFORMANCE REVIEW FOR FY 2015-16

5.1 Background to FY 2015-16 Petition

5.1.1 PED had filed a petition for review of FY 2014-15 and ARR for MYT period FY 2015-16 to FY 2017-18, before the Hon'ble Commission on 02nd January 2015. However the Hon'ble Commission deferred the implementation of MYT Control Period by a year to FY 2016-17 to FY 2018-19. The Hon'ble Commission after undertaking a thorough analysis had issued the Tariff Order for Financial Year 2015-16 along with the Annual Review for FY 2014-15 on 10th April 2015.

5.1.2 This chapter summarizes each of the components of ARR for FY 2015-16 and requests the Hon'ble Commission to review the performance for FY 2015-16. The Annual Performance Review for FY 2015-16 is based on actual data/ information for first 6 months (First Half – H1) and as per the performance of PED and estimation/projections for remaining 6 months (Second Half – H2), wherever applicable. The projections for the second 6 months are arrived at based on the performance over the first half data/ information.

5.2 Approved ARR for FY 2015-16

5.2.1 The summary of the charges for FY 2015-16 as claimed by the petitioner in the ARR petition and as approved by the Hon'ble Commission in the previous Tariff Order is tabulated below:

Table 5-1: Approved ARR of FY 2015-16

| Rs. Crs. | | | |
|----------|---|-----------------------|------------------------|
| S. No. | Particulars | Claimed by Petitioner | Approved by Commission |
| 1 | Cost of power purchase including RPO provision to meet obligation of the previous years | 1108.87 | 1035.63 |
| 2 | Employee Cost | 80.91 | 78.22 |
| 3 | Administration and General Expenses | 5.76 | 5.68 |
| 4 | R&M Expenses | 18.35 | 18.35 |
| 5 | Depreciation | 35.21 | 35.21 |
| 6 | Interest and Finance Charges | 24.87 | 24.87 |
| 7 | Interest on Working Capital +Interest on CSD | 14.84 | 22.36 |
| 8 | Return on NFA / Equity | 16.21 | 8.89 |
| 9 | Provision for Bad Debt | - | - |
| 10 | Provision to meet arrears of interest on security deposit | - | 27.63 |
| 11 | Total Revenue Requirement | 1305.01 | 1256.84 |
| 12 | Less: Non- Tariff Income | 3.79 | 3.79 |
| 13 | Net Aggregate Revenue Requirement | 1301.22 | 1253.05 |
| 14 | Revenue from Existing Tariff | 1213.10 | 1210.82 |
| 15 | Revenue Gap | 88.12 | 42.23 |

5.3 Number of Consumers

5.3.1 PED had provided an estimate of 4.41 Lakh consumers in its petition for FY 2015-16. Based on the number of consumers added during the first half of FY 2015-16, PED submits the revised estimates for FY 2015-16 as 4.41 Lakh consumers. A comparison of the revised estimates with earlier approved numbers is shown below:

Table 5-2: Details of Number of Consumers for FY 2015-16

| S. No. | Particulars | Approved | Revised estimates |
|--------|------------------------------|---------------|-------------------|
| 1 | Domestic | 294202 | 294202 |
| 2 | OHOB | 35539 | 35539 |
| 3 | Commercial | 48173 | 48173 |
| 4 | Agriculture | 6836 | 6849 |
| 5 | Public Lighting | 50055 | 50055 |
| 6 | LT Industrial | 6617 | 6617 |
| 7 | Total LT | 441422 | 441435 |
| 8 | HT 1 Industrial & Commercial | 428 | 427 |
| 9 | HT 2 Government & Water Tank | 53 | 53 |
| 10 | HT 3 EHT | 7 | 7 |
| 11 | Total HT | 488 | 487 |
| 12 | Total LT and HT | 441910 | 441922 |

5.3.2 It is requested to the Hon'ble Commission to consider the revised number of consumers as submitted in the above table for FY 2015-16.

5.4 Energy Sales

5.4.1 PED had projected sales of 2,667.94 MUs for FY 2015-16 in the last submission against which the Hon'ble Commission had approved sales of 2700 MUs in previous Tariff order. The revised category wise sales based on H1 FY2015-16 are shown in the table below.

Table 5-3: Sales for FY2015-16

All figures in MUs

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates | |
|--------|------------------------------|-----------------------|------------------------|-------------------|----------------|
| | | | | H1 FY2015-16 | FY 2015-16 |
| 1 | Domestic | 662.84 | 697 | 339.92 | 679.85 |
| 2 | OHOB | | | 4.59 | 9.18 |
| 3 | Commercial | 193.7 | 211 | 96.52 | 193.04 |
| 4 | Agriculture | 56.63 | 57 | 28.64 | 57.28 |
| 5 | Public Lighting | 30.61 | 29 | 13.62 | 27.24 |
| 6 | LT Industrial & Water Tank | 289.53 | 279 | 102.46 | 204.92 |
| 7 | Temporary Supply - LT&HT | 21 | | 4.00 | 8.00 |
| 8 | Total LT | 1254.31 | 1273.00 | 589.75 | 1179.50 |
| 9 | HT 1 Industrial & Commercial | 994.33 | 1005 | 457.27 | 914.54 |
| 10 | HT 2 Government & Water Tank | 53 | 55 | 29.29 | 58.58 |
| 11 | HT 3 EHT | 366.3 | 367 | 160.22 | 320.44 |
| 12 | Total HT | 1413.63 | 1427.00 | 646.78 | 1293.57 |
| 13 | Total LT and HT | 2667.94 | 2700.00 | 1236.54 | 2473.07 |

5.4.2 PED submits that based on actual H1 sales, the energy sales projected for FY 2015-16 is considered two times considering the average sales growth. It is further submitted that still sales in the industrial sector is not expected to grow as envisaged by the Hon'ble Commission and therefore, the envisaged sales is lower than as approved in the tariff order.

5.4.3 It is requested to Hon'ble Commission to approve the revised sales of 2,473.07 MUs for FY 2015-16.

5.5 Distribution Loss & Energy Requirement

5.5.1 PED is submitting revised estimate of 11.95% as the energy loss for FY 2015-16. The Hon'ble Commission had approved energy loss of 11.75% in FY 2015-16 tariff order. The information regarding the loss levels based on H1 and expected loss level for FY 2015-16 is shown in the table below –

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

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates | |
|----------|--|-----------------------|------------------------|-------------------|----------------|
| | | | | H1 FY2015-16 | FY 2015-16 |
| A | ENERGY REQUIREMENT | | | | |
| 1 | Energy Sales within the UT | 2667.91 | 2700 | 1236.54 | 2473.07 |
| 2 | Energy Drawal by TANGEDCo* | | | 14.56 | 16.93 |
| 3 | Distribution Losses (%) | 11.75% | 11.75% | 13.17% | 11.95% |
| 4 | Energy Required for the Territories | 3023.13 | 3059 | 1440.79 | 2827.94 |
| 5 | Add: Sales to Common Pool Consumers/UI | | | 24.56 | 24.56 |
| 6 | Energy Requirement at periphery | 3023.13 | 3059 | 1465.35 | 2852.50 |
| B | ENERGY AVAILABILITY | | | | |
| 1 | Gross Energy Energy Purchase | 3164.8 | 3202 | 1541.43 | 2986.43 |
| 2 | External Losses (MU) | 141.67 | 143 | 76.0813 | 133.94 |
| 3 | Net Energy Availability | 3023.13 | 3059 | 1465.35 | 2852.49 |

*The explanation for the same has been provided in para 5.5.2 below.

5.5.2 At Puducherry, pockets of Tamilnadu region are being fed by Puducherry 110kV sub-station at 22kV level feeders. These feeders are metered at sub-station end. Normally, Puducherry region draws certain power from TNEB 110kV feeder and TNEB would bill PED after deducting energy consumption by their 22kV feeders. During the year FY 2014-15, due to surplus power available with Puducherry from CGS, PED has not drawn any power from 110kV TNEB feeders. The matter has been taken up with TNEB at Chennai to deduct their 22kV feeder consumption at Puducherry region from the TNEB sale of power at Karaikal region. The above adjustment is yet to be made by TNEB.

5.5.3 PED submits that it has been achieving significant reduction in distribution losses and

is having one of the lower T&D losses in India. These efforts shall be continued and will be enhanced. However, the loss reduction is a slow process and as the loss levels come down further reduction in loss becomes difficult. Since PED has already achieved a distribution loss of 12%, loss reduction trajectory cannot be considered at the same rate considered previously.

- 5.5.4 PED submits the revised estimates of power purchase as against the 3202 MUs approved by the Hon'ble Commission. PED hereby submits that the H2 power purchase is projected on the principles of MOD and accordingly the energy balance has been revised.
- 5.5.5 PED submits that in comparison with the approved figures, actual T&D losses are marginally higher and therefore request the Hon'ble Commission to approve the Distribution Loss of 11.95% for FY 2015-16.

5.6 Power Purchase Quantum & Cost for FY 2015-16

5.6.1 Cost of Power Purchase for H1 FY 2015-16

5.6.1.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and state utilities like TANGEDCO, KSEB and PPCL. PPCL is a generating company within the UT of Puducherry catering to Karaikal region of PED. KSEB supplies for Mahe region under the UT of Puducherry. PED also had an additional allocation of power from Kudankulam Nuclear Power Plant and Vallur Thermal Power Project to meet the demand of the Union Territory.

5.6.1.2 The table below shows the summary of Power Purchase from various sources along with their costs for the 1st half of FY 2015-16 including Transmission Charges, UI charges and purchase from traders.

Table 5-5: Power Purchase Quantum & Cost for H1-FY 2015-16

| S. No. | Particulars | H1 FY 2015-16 | | |
|--------|----------------------|----------------|----------------|-----------------|
| | | Purchase (MUs) | Cost (Rs. Cr.) | Rate (Rs./unit) |
| 1 | NTPC | 555.54 | 156.07 | 2.81 |
| 2 | NLC | 451.07 | 141.30 | 3.13 |
| 3 | NPCIL | 205.17 | 63.40 | 3.09 |
| 4 | KSEB | 21.40 | 12.45 | 5.82 |
| 5 | TANGEDCO | 118.77 | 41.21 | 3.47 |
| 6 | PPCL | 56.62 | 26.32 | 4.65 |
| 7 | Vallur | 57.81 | 21.55 | 3.73 |
| 8 | Over drawal | 28.99 | 3.68 | 1.27 |
| 9 | Transmission Charges | | 31.83 | |
| 10 | Rebate | | (8.82) | |
| 11 | RPO Obligations | | 26.25 | |
| 12 | Total | 1495.37 | 515.25 | 3.45 |

5.7 Cost of Power Purchase for FY 2015-16

5.7.1 **Power Purchase quantum for FY 2014-15 (H1 + H2):** For the year FY 2015-16, PED has projected the power purchase by considering the actual power purchase for the 1st half of the year FY 2015-16 (i.e. Apr 15 – Sep 15) and considering power purchase under the principle of MOD for second half H2 FY 2015-16. The key assumptions for power purchase costs are as under:

- a. **MOD for H2 FY 15-16:** The power purchase for second half has been considered under the principle of MOD. The must run stations has been identified as all the NPCIL plants, KSEB, TNEB and PPCL. The remaining amount of power is envisaged to be purchased from the remaining available sources. The Power purchase under MOD has been arrived at as follows:
- b. The fixed charges for all the generating stations have been taken same as incurred in H1 for FY 2015-16.
- c. The variable cost for FY 2015-16 has been computed considering actual average variable cost of each source for first six months period of April-September 2015. It is submitted that no escalation of cost has been considered.
- d. 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 2015 and has not been assumed for H2 at present and may be considered at the time of true-up.
- e. The power purchase cost for power over-drawl from grid is considered on actual basis paid in first six months period of April - September 2015 only. For H2 over-drawl is not assumed under the principle of MOD
- f. PED submits that it is obliged to comply with the Renewable Purchase Obligation of 3%. The RPO compliance cost is also included in the PP cost which was arrived upon as follows.

Table 5-6: RPO Compliance Cost for FY 2015-16

| Year | Sales (MUs) | Solar Obligation % | Non-solar obligation % | Solar PO (MUs) | Non-solar PO (MUs) | Solar REC Cost (Rs./REC) | Non-solar REC cost (Rs./REC) | Total Cost (Rs. Crs.) |
|---|----------------|--------------------------|------------------------------|-------------------|--------------------------|-----------------------------|------------------------------------|--------------------------|
| FY 2015-16 | 2473.07 | 0.85% | 2.70% | 21.02 | 66.77 | 3500 | 1500 | 17.37 |
| Obligation met including pending obligations of previous years | | | | | | | | |
| | | | | 69 | 14 | 3500 | 1500 | 24.15 |
| | | | | | | 3500 | 1500 | 2.1 |
| Obligation to be met by purchase of REC's | | | | | | | | |
| | | | | | 47.66 | 3500 | 1500 | 7.149 |
| Total RPO Compliance Cost for FY 2015-16 (Rs. Crs.) | | | | | | | | 33.40 |

g. As outlined in the above table, the estimated cost towards RPO compliance is Rs. 33.40 Crs against which PED has already incurred Rs. 26.25 Crs in the current year and the balance is to be met in the remaining months of the current year. With this, PED will meet the entire RPO obligation till the end of FY 2015-16.

h. The Transmission Charges for FY 2015-16 are considered as per POC computation, i.e. Part A - Transmission charge for withdrawal of power and Part B - Transmission charges of generators. However, for H2 calculation, the similar amount as charged in H1 of FY 2015-16 has been considered for calculation of total transmission charges.

5.7.2 Estimated Power Purchase Cost Summary for FY 2015-16 is outlined as below:

Table 5-7: Power Purchase Cost for FY 2015-16

| S. No. | Particulars | FY 2015-16 | | |
|--------|----------------------|-------------------|-------------------|--------------------|
| | | Purchase (MUs) | Cost (Rs. Cr.) | Rate (Rs./unit) |
| 1 | NTPC | 1058.99 | 306.25 | 2.89 |
| 2 | NLC | 1006.26 | 307.46 | 3.06 |
| 3 | NPCIL | 329.02 | 105.49 | 3.21 |
| 4 | KSEB | 42.79 | 24.91 | 5.82 |
| 5 | TANGEDCO | 237.54 | 82.43 | 3.47 |
| 6 | PPCL | 175.38 | 80.88 | 4.61 |
| 7 | Vallur | 107.46 | 41.50 | 3.86 |
| 8 | Over drawal | 28.99 | 3.68 | 1.27 |
| 9 | Transmission Charges | | 60.74 | |
| 10 | Rebate | | (8.82) | |
| 11 | RPO Obligations | | 33.40 | |
| 12 | Total | 2986.43 | 1037.92 | 3.48 |

5.7.3 The Petitioner hereby requests the Commission to approve the power purchase cost of Rs. 1037.92.65 Crs (inclusive of rebate) as submitted above.

5.8 Operation & Maintenance Expenses

5.8.1 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 well as in the reduction of losses in the system.

5.8.2 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:

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

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

5.8.3 **Employee Expenses for FY 2015-16:** PED has computed the O&M (Employee) expense for FY 2015-16 based on the escalation in proportion to average WPI (last three years) considering base period as the actual audited expenses of FY 2013-14.

5.8.3.1 The employee cost capitalized is also taken into consideration after considering the employee cost linked to accounts with capital nature. Accordingly, PED has revised the employee cost for the current year to Rs. 80.32 Crs and requests the Hon'ble Commission to approve the same.

Table 5-8: Employee Expenses for FY 2015-16

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------|-----------------------------------|-----------------------|------------------------|-------------------|
| | Salaries & Allowances | | | |
| 1 | Salary | | | 91.33 |
| 2 | Wages | | | 0.66 |
| 3 | Stipend | | | 0.39 |
| 4 | Transport Allowance | | | 0.69 |
| 5 | Overtime Allowance | | | 0.89 |
| | Total | 93.5 | 90.82 | 93.96 |
| 6 | Less: Add/ Deduct Share of Others | 1.44 | 1.44 | 1.27 |
| | Total | 92.06 | 89.38 | 92.70 |
| 7 | Less: Amount Capitalised | 11.16 | 11.16 | 12.38 |
| 8 | Net Amount | 80.90 | 78.22 | 80.32 |
| 9 | Add: Prior Period Expenses | | | |
| | Total Employee Expenses | 80.90 | 78.22 | 80.32 |

5.8.3.2 The head wise actual information for employee expenses has been provided in **Format 16 of Tariff Filing Format**. The Petitioner hereby requests the Commission to approve the revised estimates for employee costs as shown above.

5.8.4 **Repairs & Maintenance Expenses for FY 2015-16:** The revised R&M expense for the current year has been arrived as based on k-factor of 2.68% approved by the Hon'ble Commission in the business plan order dated 04th December 2015 and opening gross fixed assets for the FY 2015-16.

Table 5-9: R&M Expenses for FY 2015-16

| Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------------|-----------------------|------------------------|-------------------|
| R&M Expenses | 18.35 | 18.35 | 16.99 |

5.8.4.1 In view of the above, the Hon'ble Commission is requested to kindly allow the above Repair and Maintenance Expenses of Rs. 16.99 Crs for FY 2015-16.

5.8.5 **Administration & General expenses for FY 2015-16:** The administrative expense mainly comprise of rents, professional charges, office expenses, etc against which the expenses incurred by PED has been considered to arrive at the revised estimates for FY 2015-16. The increase in A&G expenses is due to increase in incentive of Rs. 4.77 Crs estimated to be paid to consumers based on inflationary expense of 5.11% (average of last three years) on FY 2014-15 figures.

5.8.5.1 The Petitioner submits the revised estimate of Rs. 11.50 Crs as A&G Expense for FY 2015-16 as below and requests Hon'ble Commission to approve the same:

Table 5-10: A&G Expenses for FY 2015-16

| Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------------|-----------------------|------------------------|-------------------|
| A&G Expenses | 5.76 | 5.68 | 11.50 |

5.8.6 **O&M Expenses Summary FY 2015-16:** Based on the foregoing paragraphs, the revised O&M expenses for the year FY 2015-16 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

Table 5-11: O&M Expenses for FY 2015-16

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------|-------------------------------|-----------------------|------------------------|-------------------|
| 1 | Total Employee Expenses | 80.91 | 78.22 | 80.32 |
| 2 | Total R&M Expenses | 18.35 | 18.35 | 16.99 |
| 3 | Total A&G Expenses | 5.76 | 5.68 | 11.50 |
| | Total O&M Expenses | 105.02 | 102.25 | 108.81 |

5.8.7 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 108.81 Crs as shown in the table above. The details of O&M expense for FY 2015-16 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

5.9 Capital Work in Progress, GFA and Depreciation

5.9.1 **GFA:** The Opening Balance of GFA for FY 2015-16 comes to around Rs. 633.98 Crs. The additions to GFA are estimated to be around Rs. 63.29 Crs; the details of which are provided in the table below:

Table 5-12: GFA Revised Estimates

Rs. Crs

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------|--|-----------------------|------------------------|-------------------|
| 1 | Opening value of the assets at the beginning of the year | 611.59 | 611.59 | 633.98 |
| 2 | Additions during the year | 118.45 | 118.45 | 63.29 |
| 3 | Value of assets sold/disposed off | | | - |
| 4 | Gross Fixed Assets at the end of the year | 730.04 | 730.04 | 697.28 |

5.9.2 PED hereby requests the Hon'ble Commission to approve the revised estimates for Gross Fixed Assets as submitted above.

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

5.9.4 As per the GFA and the applicable depreciation rates, PED has calculated the depreciation for the year FY 2015-16 as Rs. 27.80 Crs. The table shows the working of depreciation.

Table 5-13: Depreciation for FY 2015-16

Rs. Crs

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------|--|-----------------------|------------------------|-------------------|
| 1 | Opening value of the assets at the beginning of the year | 611.59 | 611.59 | 633.98 |
| 2 | Additions during the year | 118.45 | 118.45 | 63.29 |
| 3 | Value of assets sold /disposed off | | | - |
| 4 | Gross Fixed Assets at the end of the year | 730.04 | 730.04 | 697.28 |
| 5 | Net Depreciation for the year | 35.21 | 35.23 | 27.80 |
| 6 | Average Depreciation Rate | 5.25% | 5.25% | 4.18% |

5.9.5 PED hereby requests the Commission to approve the revised estimates of depreciation as submitted above.

5.10 Interest & Finance Charge

5.10.1 The Regulation 25 provides for Interest and Finance Charges on Loan. PED has submitted that the majority of capital assets are created out of the equity contribution from Government of Puducherry and the actual borrowing of loan is only to the extent of the R-APDRP schemes. The table below shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission. The Interest and Finance Charges as per the revised estimates for FY 2015-16 is Rs. 24.12 Crs. The summary of Interest and Finance Charges as claimed by the petitioner and as approved by the Commission for FY 2015-16 along with revised estimates is tabulated below:

Table 5-14: Interest & Finance Charges for FY 2015-16

Rs. Crs

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------|---|-----------------------|------------------------|-------------------|
| 1 | Opening Normative Loan | 118.44 | 118.44 | 134.12 |
| 2 | Add: Normative Loan during the Year | 82.92 | 82.92 | 44.31 |
| 3 | Less: Normative Repayment | 35.21 | 35.21 | 13.41 |
| 4 | Closing Normative Loan | 166.15 | 166.15 | 165.01 |
| 5 | Average Normative Loan | 142.30 | 142.30 | 149.57 |
| 6 | Rate of Interest(@SBAR) | 14.75% | 14.75% | 14.75% |
| 7 | Interest on Normative Loan | 20.99 | 20.99 | 22.06 |
| 7 | Other Finance Charges | 3.88 | 3.88 | 2.06 |
| 9 | Total Interest and Finance Charges | 24.87 | 24.87 | 24.12 |

5.10.2 It is submitted that it has considered an addition of Rs. 63.29 Crs in the Gross Fixed Assets for FY 2015-16, which are considered to be funded through normative debt to the tune of 70%. The rate of interest considered is prevailing Prime Lending Rate of the State Bank of India as on 1st April of that relevant year.

5.10.3 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, etc. which are claimed along with the interest in Table 5-14 of the Petition

5.10.4 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 24.12 Crs as shown in the table for FY 2015-16. The details of Interest & Finance charges are provided in Format 10A of the Tariff Filing Formats.

5.11 Interest on Working Capital

5.11.1 Regulation No. 29 of the JERC Tariff Regulations stipulates the procedure for calculation of Working Capital and Interest on Working Capital as applicable to Electricity Department of Puducherry. This is as shown below:

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

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

(a) Power purchase cost.

(b) Employees cost.

(c) Administration & general expenses and

(d) Repair & Maintenance expenses.

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

(a) Power purchase cost

(b) Employees cost

(c) Administration & general expenses

(d) Repair & Maintenance expenses.

(e) Sum of two month requirement for meeting Fuel cost..

(4) The rate of interest on working capital shall be equal to the short term Prime Lending Rate of State Bank of India on the 1st April of the relevant financial year. The interest on working capital shall be payable on normative basis notwithstanding that the generating company / licensee has not taken

working capital loan from any outside agency or has exceeded the working capital loan amount worked out on the normative figures.

5.11.2 PED hereby submits that it has adopted the same methodology adopted by the Hon'ble Commission in its tariff order for FY 2014-15 for arriving at the working capital requirement whereby it has also taken into consideration the available security deposits available with the Petitioner from the working capital requirement though the same has not been specified in the Regulations.

5.11.3 The Interest on Working Capital approved by the Hon'ble Commission for the FY 2015-16 was Nil. On the basis of the revised estimates for FY 2015-16, the interest on working capital comes to Nil.

5.12 Security Deposits

5.12.1 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 8.50% as notified by Reserve Bank of India with effect from 04th March 2015.

Table 5-15: Interest on Security Deposit for FY 2015-16

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|----------|---|-----------------------|------------------------|-------------------|
| 1 | Opening Security Deposit | 151.06 | 151.06 | 144.79 |
| 2 | Add: Deposits during the year | 27.58 | 27.58 | 21.31 |
| 3 | Less: Deposits refunded | | | |
| 4 | Less: Deposits in the form of BG/FDR | | | |
| 5 | Closing Security Deposit | 178.64 | 178.64 | 166.10 |
| 6 | Bank Rate | 9.00% | 8.50% | 8.50% |
| 7 | Interest on Security Deposit | 14.84 | 14.01 | 13.21 |
| 8 | Interest on security deposit paid | | | 2.50 |
| 9 | Carried forward interest on SD relating to FY 2014-15 | | 8.35 | |
| 10 | Interest on security deposit provisioned | | 22.36 | 10.71 |

5.12.2 PED submits that even though the total Interest on security deposit is Rs. 13.21 Crs, it is expected that PED would be able to pay Rs. 2.50 Crs to the consumers and the balance is proposed to be paid during MYT Control period. The detailed provision of interest on security deposit to be made in MYT Control period is highlighted separately in subsequent chapter of this Petition. The Hon'ble Commission is requested to approve the Interest on Security Deposit of Rs. 2.50 Crs to be actually

estimated to be paid as shown in the table above.

5.13 Provision for bad debts

5.13.1 As per regulation 28 of Tariff Regulations 2009, Commission may allow a provision for bad debts up to 1% of receivables in the revenue requirement of the generating company / licensee. The relevant excerpts of the regulation are provided below.

“28. Bad and Doubtful Debts:

The Commission may, after the generating company / licensee gets the receivables audited, allow a provision for bad debts up to 1% of receivables in the revenue requirement of the generating company / licensee. ”

5.13.2 PED is not claiming any provision for bad & doubtful debts in the ARR of FY 2015-16, for pass through in tariff to consumers and may consider during true-up of the FY 2015-16 as per audited financial statements.

5.13.3 The Hon’ble Commission is requested to kindly approve the same.

5.14 Return on Capital Base/ Net Fixed Assets

5.14.1 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, PED has calculated the return on capital base at 3%. The summary of the Return on Net Fixed Assets as claimed by the petitioner, as approved by the Commission and as calculated on the basis of revised estimates for FY 2015-16, is tabulated below:

Table 5-16: Return on NFA for FY 2015-16

Rs. Cr.

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------|---|-----------------------|------------------------|-------------------|
| 1 | Gross Block at the beginning of the year | 730.04 | 611.58 | 633.98 |
| 2 | Less: Accumulated depreciation | 340.71 | 305.49 | 300.55 |
| 3 | Net Fixed Assets | 389.33 | 306.09 | 333.43 |
| 4 | Less: Accumulated consumer contribution | 9.92 | 9.92 | 17.71 |
| 5 | Net fixed assets at the beginning of the year | 379.41 | 296.17 | 315.72 |
| 6 | Reasonable Return @ 3% of NFA | 16.21 | 8.89 | 9.47 |

5.14.2 In view of above, the Hon’ble Commission is requested to kindly allow the above Return on Net Fixed Assets of Rs. 9.47 Crs.

5.15 Non-Tariff Income

5.15.1 The Non-Tariff Income comprises metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. The Non-Tariff Income approved by the Hon'ble Commission in the ARR for FY 2015-16 was Rs. 3.79 Crs.

5.15.2 The details of Non-Tariff Income for FY 2015-16 are provided in Format 20 of the Tariff Filing Formats.

5.15.3 The Non-Tariff Income under this head is clubbed with Revenue from Outside Sales / UI Sales under the broad head of Non-Tariff Income. PED hereby submits that UI Sales was done to the extent of 24.56 MU that fetched an income of Rs. 1.17 Crs. The UI sales in the second half is considered to be Nil as the projections are made on MOD principle that insists no surplus and no deficit of power. The summary of total Non-Tariff Income is tabulated below:

Table 5-17: Non-Tariff Income for FY 2015-16

Rs. Cr.

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------|--------------------------------|-----------------------|------------------------|-------------------|
| 1 | UI Sales/ sales to exchange | | | 1.17 |
| 2 | Income from trading | | | 0.06 |
| 3 | Misc. receipts/ income | | | 2.60 |
| 4 | Total income | 3.79 | 3.79 | 3.83 |
| 5 | Add: Prior period income | | | |
| 6 | Total Non-Tariff Income | 3.79 | 3.79 | 3.83 |

5.15.4 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of Rs. 3.83 Crs.

5.16 Revenue from Sale of Power at Existing Tariff

5.16.1 The Revenue from Tariff for FY 2015-16 approved by the Hon'ble Commission was Rs. 1,263.51 Crs. The Revenue from Tariff for FY 2015-16 as per revised estimates comes to Rs. 1,194.18 Crs (including FPPCA and Rs. 30.11 Crs as 2.64% additional Surcharge). The summary of Revenue from Tariff as claimed by PED in the ARR for FY 2015-16, as approved by the Commission and as per revised estimates for FY 2015-16, is tabulated below:

Table 5-18: Revenue from Tariff for 2015-16

| S. No. | Particulars | Sales (MUs) | Revenue (Rs.Crs) |
|--------------------|---|----------------|------------------|
| LT Category | | | |
| 1 | Domestic | 679.02 | 186.69 |
| 2 | OHOB | 10.00 | 1.15 |
| 3 | Commercial | 193.04 | 101.71 |
| 4 | Agriculture | 57.00 | 1.49 |
| 5 | Public Lighting | 27.24 | 17.95 |
| 6 | LT Industrial | 169.01 | 86.87 |
| 7 | Water Tank | 35.90 | 18.32 |
| 8 | Temporary Supply-LT&HT | 8.28 | 7.82 |
| | Total LT | 1179.50 | 422.01 |
| HT Category | | | |
| 9 | HT 1 Industrial / Commercial | 914.54 | 508.64 |
| 10 | HT 2 - Government & Water Tank | 58.58 | 37.74 |
| 11 | HT 3 - EHT | 320.44 | 174.83 |
| 12 | Total HT | 1293.56 | 721.20 |
| 13 | Total LT and HT | 2473.07 | 1143.21 |
| 14 | FPPCA | | 20.86 |
| 15 | 10% Surcharge | | 30.11 |
| 17 | Total | 2473.07 | 1194.18 |
| | As approved in Tariff order dated 10th April, 2015 (excl Surcharge) | 2700 | 1263.51 |

5.16.2 The petitioner hereby submits that the revenue as per the revised estimates consists of both FPPCA charges and additional surcharge.

5.16.3 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 1,194.18 Crs (including FPPCA and Rs. 30.11 Crs as 2.64% additional Surcharge).

5.17 Aggregate Revenue Requirement for FY 2015-16

5.17.1 The Aggregate Revenue Requirement for FY 2015-16 approved by the Hon'ble Commission in the Tariff order for FY 2015-16 was Rs. 1253.05 Cr. The calculation for Aggregate Revenue Requirement on the basis of revised estimates for FY 2015-16 is shown below:

Table 5-19: Calculation of ARR for FY 2015-16

Rs. Crs

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|-----------|---|-----------------------|------------------------|-------------------|
| 1 | Cost of power purchase | 1108.87 | 1035.63 | 1037.92 |
| 2 | Employee Costs | 80.91 | 78.22 | 80.32 |
| 3 | Administration and General Expenses | 5.76 | 5.68 | 11.50 |
| 4 | R&M expenses | 18.35 | 18.35 | 16.99 |
| 5 | Depreciation | 35.21 | 35.21 | 27.80 |
| 6 | Interest & Finance Charges | 24.87 | 24.87 | 24.12 |
| 7 | Interest on Working Capital | - | - | - |
| 89 | Interest on Security Deposit | 14.84 | 22.36 | 2.50 |
| 10 | Return on NFA/ Equity | 16.21 | 8.89 | 9.47 |
| 11 | Provision to meet arrears of interest on SD | 0 | 27.63 | - |
| 12 | Total Revenue Requirement | 1305.02 | 1256.84 | 1210.63 |
| 13 | Less: Non- Tariff Income | 3.79 | 3.79 | 3.83 |
| 14 | Net Aggregate Revenue Requirement | 1301.23 | 1253.05 | 1206.80 |

5.17.2 PED hereby requests the Hon'ble Commission to approve the revised ARR of Rs. 1206.80 Crs for FY 2015-16 as submitted above.

5.18 Revenue Gap for FY 2015-16

5.18.1 The Revenue Gap as claimed by PED, approved by the Hon'ble Commission for FY 2015-16 and as calculated on the basis of revised estimates is shown in the table below:

Table 5-20: Revenue Gap for FY 2015-16

Rs. Crs

| S. No. | Particulars | Claimed by Petitioner | Approved by Commission | Revised Estimates |
|--------|--|-----------------------|------------------------|-------------------|
| 1 | Aggregate Revenue Requirement | 1301.23 | 1253.05 | 1206.80 |
| 2 | Revenue from Sale of Power (Excluding Surcharge) | 1213.10 | 1210.82 | 1164.07 |
| 3 | Revenue Gap/ (Surplus) | 88.13 | 42.23 | 42.73 |

5.18.2 In view of above, the Hon'ble Commission is requested to kindly allow adjusting the revenue gap of FY 2015-16 with the cumulative gap.

CHAPTER 6. ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD (FY 2016-17 TO FY 2018-19)

6.1 Preamble

6.1.1 The Joint Electricity Regulatory Commission notified the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Multi Year Distribution Tariff) Regulations, 2014. As per the same, the Hon'ble Commission shall determine the tariff for the distribution business of electricity under a Multi-Year Tariff framework with effect from April, 2015. However, the Hon'ble Commission decided to postpone the implementation of the MYT Control period by a year to FY 2016-17 in the Tariff order dated 10th April, 2015. The Commission also notified the first amendment to JERC MYT Regulations dated 10th August, 2015. Earlier the Joint Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2009 were applicable for determination of tariff. The relevant extracts of the JERC MYT (first amendment) regulations, 2015 are given below.

6.1.2 As per JERC MYT Regulations, 2015, MYT petition for a licensee shall be on the basis of the business plan approved by the Hon'ble Commission. The control period is defined as:

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

6.1.3 The said MYT Regulations and the tariff order dated 10th April, 2015 mandates/ directs the Distribution license to submit their Multi-Year Business Plan for the Control Period FY 2016-17 to FY 2018-19, which Electricity Department, Puducherry had submitted on August, 2015 which was in line with the MYT Regulations.

6.1.4 Based on the MYT regulations and its amendment and the Business plan order dated 04th December, 2015, this MYT petition is being filed by the petitioner for the Control Period i.e. FY 2016-17 to FY 2018-19. This chapter provides the details of the expenditure estimates of PED which are the components of the ARR for the entire Control Period from FY 2016-17 to FY 2018-19 which are proposed to be approved by the Hon'ble Commission. Accordingly, the revenue from the existing tariff with the Revenue gap / (surplus) is determined so as to propose the tariff design / proposal for recovery from the consumers during the MYT control period.

6.2 Principles for determination of ARR

- 6.2.1 This Chapter summarises the Aggregate Revenue Requirement (ARR) for the MYT control period FY 2016-17 to FY 2018-19. The projections for the control period have been made based on the figures and norms approved by the Hon'ble Commission in its Business plan order. The various components of ARR are determined in the following chapters in line with the MYT Regulations 2014 and its first amendment and in case of any deviation sought, the detail justification for the same has also been provided.
- 6.2.2 PED would like to submit that the Business Plan for PED was developed keeping in mind the growth plan for the MYT Control Period after considering the strengths and weaknesses of the department and evaluating its business environment.
- 6.2.3 However, as mentioned above and in the MYT Business Plan, there are number of internal and external factors which affect the planning of the department and thus, it makes this a very dynamic document and which calls for regular reviews of the plan with a view to introduce any corrections commensurate to the actual implementation of the schemes and other factors.
- 6.2.4 The Annual Revenue Requirement for the MYT Control Period is projected based on the methodologies as discussed in detail in subsequent paragraphs.

6.3 Sales for the Control Period

- 6.3.1 The petitioner in the business plan petition had adopted the methodology mentioned by the Hon'ble Commission and has taken the compounded annual growth rate (CAGR) of past 3 years of sales and number of consumers of each category as per actual audited sales and has forecasted the sales and number of consumers for the control period FY 2016-17 to FY 2018-19.
- 6.3.2 Based on the projections and analysis of the past sales and number of consumers, the category wise growth rate of the sales and the number of consumers proposed by PED and approved by the Commission is mentioned below.

Table 6-1: Category-wise growth rate proposed and approved for Sales and Number of Consumers for the Control Period

| S. No. | Particulars | Consumers | | Sales | |
|--------|------------------------------|-----------|------------------------|----------|-----------------|
| | | Proposed | Approved | Proposed | Approved |
| 1 | Domestic | 4.74% | 4.45% | 5.67% | 8.82% |
| 2 | OHOB | 0.00% | consumers as submitted | 0.00% | normative sales |
| 3 | Commercial | 3.79% | 3.43% | 5.01% | 5.01% |
| 4 | Agriculture | 0.00% | consumers as submitted | 0.00% | normative sales |
| 5 | Public Lighting | 0.93% | 0.93% | 4.08% | 4.08% |
| 6 | LT Industrial | 1.97% | 1.97% | 11.00% | 6.80% |
| 7 | Water Tanks | 3.29% | 3.08% | 3.00% | 3.00% |
| 8 | HT 1 Industrial & Commercial | 3.28% | 3.28% | 6.00% | 6.00% |
| 9 | HT 2 Government & Water Tank | 6.12% | consumers as submitted | 6.00% | 4.35% |
| 10 | HT 3 EHT | 0.00% | | 6.00% | 6.00% |

6.3.3 Based on the above approved growth rates, the Commission had projected the sales for the Control period considering FY 2014-15 as the base year as against the FY 2015-16 as per the MYT regulations. The sales and number of consumers projected by the petitioner and approved by the Commission for the Control period is given below. The Hon'ble Commission has considered 2479.38 MUs as the provisional actual sales for the FY 2014-15 whereas the provisional actual sales are 2366.31 MUs. This has resulted in approving higher sales during the control period.

Table 6-2: Sales proposed and approved for MYT Control Period (in MUs)

| S. No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|--------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| 1 | Domestic | 722.80 | 819.45 | 763.70 | 891.73 | 807.00 | 970.38 |
| 2 | OHOB | 13.80 | 10.38 | 13.80 | 10.38 | 13.80 | 10.38 |
| 3 | Commercial | 221.70 | 207.31 | 232.80 | 217.70 | 244.50 | 228.60 |
| 4 | Agriculture | 57.00 | 57.00 | 57.00 | 57.00 | 57.00 | 57.00 |
| 5 | Public Lighting | 29.80 | 28.16 | 31.10 | 29.31 | 32.30 | 30.51 |
| 6 | LT Industrial | 238.70 | 184.78 | 264.90 | 197.35 | 294.00 | 210.77 |
| 7 | Water Tanks | 65.50 | 39.25 | 67.40 | 40.43 | 69.50 | 41.64 |
| 8 | HT 1 Industrial & Commercial | 1065.50 | 1008.99 | 1129.50 | 1069.53 | 1197.20 | 1133.70 |
| 9 | HT 2 Government & Water Tank | 58.10 | 65.33 | 61.60 | 68.18 | 65.30 | 71.14 |
| 10 | HT 3 EHT | 389.00 | 376.41 | 412.40 | 398.99 | 437.10 | 422.93 |
| | Total | 2861.90 | 2797.07 | 3034.20 | 2980.59 | 3217.70 | 3177.06 |

6.3.4 Similarly, the number of consumers as per provisional actuals is 432609 whereas Commission has considered 427440.

Table 6-3: Number of Consumers proposed and approved for MYT Control Period

| S. No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|--------|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| 1 | Domestic | 308151 | 307421 | 322762 | 321112 | 338065 | 335412 |
| 2 | OHOB | 35539 | 35539 | 35539 | 35539 | 35539 | 35539 |
| 3 | Commercial | 49997 | 49754 | 51890 | 51460 | 53854 | 53224 |
| 4 | Agriculture | 6836 | 6836 | 6836 | 6836 | 6836 | 6836 |
| 5 | Public Lighting | 50521 | 50824 | 50991 | 51297 | 51465 | 51774 |
| 6 | LT Industrial | 6632 | 6566 | 6763 | 6695 | 6897 | 6827 |
| 7 | Water Tanks | 117 | 117 | 121 | 120 | 125 | 124 |
| 8 | HT 1 Industrial & Commercial | 442 | 443 | 456 | 457 | 471 | 472 |
| 9 | HT 2 Government & Water Tank | 56 | 56 | 60 | 60 | 63 | 63 |
| 10 | HT 3 EHT | 7 | 7 | 8 | 8 | 8 | 8 |
| | Total | 458298 | 457563 | 475426 | 473584 | 493323 | 490279 |

6.3.5 The connected load for each of the Consumer categories proposed and approved for the control period is as mentioned below.

Table 6-4: Connected Load proposed and approved for MYT Control Period

| S. No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|--------|--------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| 1 | Domestic | 506829 | 506829 | 530206 | 530206 | 554691 | 554691 |
| 2 | OHOB | 2843 | 2843 | 2843 | 2843 | 2843 | 2843 |
| 3 | Commercial | 109627 | 109627 | 119092 | 119092 | 130876 | 130876 |
| 4 | Agriculture | 44654 | 44654 | 44654 | 44654 | 44654 | 44654 |
| 5 | Public lighting | 6058 | 6058 | 6119 | 6119 | 6181 | 6181 |
| 6 | LT Industrial & water tank | 122804 | 122804 | 125234 | 125234 | 127718 | 127718 |
| | Total LT | 792814 | 792814 | 828148 | 828148 | 866963 | 866963 |
| 7 | HT 1 Industrial | 301976 | 301976 | 309858 | 309858 | 325351 | 325351 |
| 8 | HT 1 Commercial | 31122 | 31122 | 34235 | 34235 | 35947 | 35947 |
| 9 | HT 2 - Government & water tank | 27731 | 27731 | 30504 | 30504 | 32029 | 32029 |
| 10 | HT 3 – EHT | 115167 | 115167 | 120912 | 120912 | 126958 | 126958 |
| 11 | Total HT | 475996 | 475996 | 495509 | 495509 | 520284 | 520284 |
| 12 | Total | 1268810 | 1268810 | 1323657 | 1323657 | 1387247 | 1387247 |

6.3.6 However, PED would like to submit the Hon'ble Commission that since the Hon'ble Commission has considered the base year as FY 2014-15, there is a variance in the sales and would therefore request to reconsider the Sales for the MYT Control period.

6.4 Distribution Loss

6.4.1 PED has been achieving a significant reduction in distribution losses, during recent years. These efforts shall be continued and will be enhanced. However, the loss reduction is a slow process and as the loss levels come down further reduction in

loss becomes difficult to a large extent. Since PED has achieved a distribution loss of 11.95%, loss reduction trajectory cannot be considered at the same rate considered previously. The Commission has taken note of the difficulties mentioned by the petitioner in the business plan and has considered loss reduction of 0.25% every year during the control period. The loss reduction trajectory approved by the Hon'ble Commission in the business plan order is mentioned below.

Table 6-5: Loss reduction trajectory for the MYT Control Period

| Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|-------------|------------|----------|------------|----------|------------|----------|
| | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| T&D loss | 11.50% | 11.50% | 11.25% | 11.25% | 11.00% | 11.00% |

6.5 Energy Efficiency

6.5.1 The Petitioner has submitted that it is implementing DSM based efficient lighting programme (DELP) under demand side management programme in the UT of Puducherry along with Energy Efficiency Services Limited (EESL). The Hon'ble Commission has approved the implementation of the scheme vide petition no. 128/2014 order dated 25.04.2014. Bureau of Energy Efficiency (BEE) has carried out Monitoring and Verification of DELP scheme by appointing Energo Engineering Projects Limited (EEPL) and the final report has been submitted to BEE.

6.5.2 Based on the report, energy savings of 40.11 MUs annually were considered as energy savings during the Control Period.

6.5.3 The Hon'ble Commission has considered the submission reasonable and has approved the same.

Table 6-6: Energy saving s under DELP scheme proposed and approved for the MYT Control Period

| Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|-----------------------|------------|----------|------------|----------|------------|----------|
| | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| Energy Savings - DELP | 40.11 | 40.11 | 40.11 | 40.11 | 40.11 | 40.11 |

6.6 Energy Balance

6.6.1 While calculating energy balance of PED, the UI sale has not been projected for the control period. Only the sales to its own consumers and the estimated Distribution Loss envisaged during the MYT Control period is considered to determine the power requirement to meet the demand of own consumers.

6.6.2 Based on the approved Sales and distribution loss trajectory during MYT Control period, the Energy requirement approved by the Commission is shown in the following table:

Table 6-7: Energy Requirement proposed and approved for the MYT Control Period

| S.No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|-------|---|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| A | ENERGY REQUIREMENT | | | | | | |
| 1 | Sales within UT (MU) | 2862.00 | 2797.08 | 3034.00 | 2980.60 | 3218.00 | 3177.04 |
| 2 | Savings under DELP (MU) | 40.11 | 40.11 | 40.11 | 40.11 | 40.11 | 40.11 |
| 3 | Total Sales | 2821.89 | 2756.97 | 2993.89 | 2940.49 | 3177.89 | 3136.93 |
| 4 | Loss(%) | 11.50% | 11.50% | 11.25% | 11.25% | 11.00% | 11.00% |
| 5 | Loss(MU) | 367 | 358 | 380 | 373 | 393 | 388 |
| 6 | Sales to common pool consumer/UI | - | - | - | - | - | - |
| 7 | Energy requiremnt at periphery(MU) | 3188.00 | 3115.22 | 3374.00 | 3313.23 | 3570.00 | 3524.64 |

6.6.3 Based on the approved Sales and distribution loss trajectory during MYT Control period, the energy balance for the Control Period is shown in the following table.

Table 6-8: Energy Balance for the MYT Control Period

| S.No. | Particulars | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|-------|---|----------------|----------------|----------------|
| A | ENERGY REQUIREMENT | | | |
| 1 | Sales within UT (MU) | 2797.08 | 2980.60 | 3177.04 |
| 2 | Savings under DELP (MU) | 40.11 | 40.11 | 40.11 |
| 3 | Total Sales | 2756.97 | 2940.49 | 3136.93 |
| 4 | Loss(%) | 0.12 | 0.11 | 0.11 |
| 5 | Loss(MU) | 358.25 | 372.74 | 387.71 |
| 6 | Sales to common pool consumer/UI | 0.00 | 0.00 | 0.00 |
| 7 | Energy requiremnt at periphery(MU) | 3115.22 | 3313.23 | 3524.64 |
| B | ENERGY AVAILABILITY | | | |
| 1 | Gross Energy Purchase | 3260.70 | 3468.91 | 3691.23 |
| 2 | External Loss (MU) | 145.48 | 155.68 | 166.59 |
| 3 | Net Energy Availability | 3115.22 | 3313.23 | 3524.64 |

6.6.4 PED request the Hon'ble Commission to approve the Energy Balance for the MYT Control period as submitted in this petition.

6.7 Aggregate Technical and Commercial (AT&C) Loss

6.7.1 The AT&C loss for the control period submitted and approved by the Commission in the business plan order is mentioned in the table below.

Table 6-9: AT&C loss for the MYT Control Period

| Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|---------------------------|------------|----------|------------|----------|------------|----------|
| | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| T&D Losses (%) | 11.50% | 11.50% | 11.25% | 11.25% | 11.00% | 11.00% |
| Collection Efficiency (%) | 92.65% | 98.00% | 92.96% | 99.00% | 93.26% | 100.00% |
| AT&C Losses (%) | 18.00% | 13.27% | 17.50% | 12.14% | 17.00% | 11.00% |

6.7.2 The Commission expects PED to achieve 100% collection efficiency by the end of the Control Period. The trajectory approved by the Hon'ble Commission seems to be on a higher side and bit stringent in nature. PED requests the Hon'ble Commission to gradually increase the collection efficiency and allow achievement of 97% collection efficiency by the end of the Control Period instead of 100%. It is submitted that many risk are associated with the retail supply business whereby different categories of consumers are involved in the same. Therefore, achieving 100% collection efficiency becomes difficult considering different consumers with different social status and can be targeted gradually. Therefore, PED is requesting the Hon'ble Commission to consider the collection efficiency and AT&C loss for the Control Period as mentioned in the table below.

Table 6-10: Proposed AT&C loss and collection efficiency for the MYT Control Period

| Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|---------------------------|------------|----------|------------|----------|------------|----------|
| | Approved | Proposed | Approved | Proposed | Approved | Proposed |
| T&D Losses (%) | 11.50% | 11.50% | 11.25% | 11.25% | 11.00% | 11.00% |
| Collection Efficiency (%) | 98.00% | 95.00% | 99.00% | 96.00% | 100.00% | 97.00% |
| AT&C Losses (%) | 13.27% | 15.93% | 12.14% | 14.80% | 11.00% | 13.67% |

6.8 Power Purchase Cost

6.8.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and State utilities like TANGEDCO, KSEB and PPCL. PPCL is a generating company within the UT catering for Karaikal region of PED to the extent of 33 MW. KSEB supplies for Mahe region under the UT of Puducherry.

6.8.2 For estimating the power purchase cost for the control period, merit order principles have been considered. While full fixed (capacity) charges have been considered for all the plants, the variable charges corresponding to the cheaper sources of power have been considered, whereas no variable charges have been considered in respect of energy not scheduled for power purchase (according to the merit order dispatch principles).

6.8.3 The Hon'ble Commission did not approve the power purchase cost for the control period and has approved only the sources of power purchase for PED. The relevant extracts of the order are mentioned below.

“ The power purchase quantum and cost for the control period is to be determined by the Commission based on the audited accounts and latest allocation available at the prevailing rates. The Commission finds it appropriate to review and approve the power purchase quantum and cost at the time of finalization of MYT order/APR orders only. The Commission for the purposes of the business plan finds it appropriate only to approve the sources of power purchase for the utility. The exact quantum and thereby the power purchase cost based on the merit order principles basis the latest available allocation and audited accounts would be done at the time of finalization of the MYT tariff order.”

6.8.4 The Commission has also considered following plants which became operational in FY 2015-16 for projection during the control period.

- a) Kudankulam Nuclear Power Plant (2000 MW)
- b) NLC Tuticorin project/ NTPL (1000MW)
- c) NLC TPS II Expansion (500MW)

6.8.5 Following assumptions have been considered for projecting the quantum and cost of power purchase:

- **Share Allocation:** The petitioner has considered the firm allocation and allocation from the unallocated quota from the above stations as per the notification of the Southern Region Power Committee vide SRPC Order No: SRPC/SE-I/54/UA/2015 dated 24.02.2015, effective from 00:00 Hrs of 26-02-2015.
- **Fixed Charges:** The Tariff Regulations for the tariff period FY 2014-19 have recently been notified by CERC. However, CERC has not issued the tariff orders for the respective period for many of the central generating stations based on the new regulations. In absence of the tariff orders, PED has considered the Annual Fixed Charges of FY 2015-16 (H1 actuals) as base year for each generating station for the purpose of estimation of the fixed charges and the same has not been escalated for projections of Fixed Cost for the Control period.
- **Variable Charges:** PED has considered the actual average variable cost of H1 of FY 2015-16 for consideration of per unit variable charges for various plants and has not escalated the cost for projections during the control period.

- No other costs such as ED, Cess, Incentive, MOPA etc and supplementary charges are considered during MYT Control period and may be considered at the time of true-up.
- PED has considered the nuclear plants, as must run and has not subjected them to merit order dispatch. Also, TNEB (Karaikal), KSEB and PPCL have been considered as must run and not subject to merit order principles.
- For determining the power purchase cost, merit order dispatch principles have been applied. The must-run stations have been assumed at the top of the merit order and variable cost incurred for meeting the energy requirement within the UT has been calculated from the plants at the top of the merit order.
- Fixed Charges from all the generating stations (irrespective of the merit order) have been considered for arriving at the power purchase cost.
- UI Over-drawal/ Under-drawal: As per the merit order principles adopted for estimating the energy requirement for the control period, no surplus sale of power has been considered for the control period and power purchase corresponding to meeting the requirement. The UI over-drawal has not been considered for the control period. Further, the UI over-drawal/ under-drawal quantum and amount would be submitted at the time of true-up based on the actual performance during the year based on the actual UI bills.
- **PGCIL losses:** Losses have been assumed at 5% and at 4% for TNEB. For PPCL and KSEB the external losses have been considered as nil as they are within the periphery of the licensee area.
- **Transmission Charges:** The petitioner has considered the transmission charges for FY 2015-16 as a base rate and has accordingly calculated the transmission charges per unit for PGCIL and has escalated the same by 5% y-o-y. For POSOCO and PCKL the FY 2015-16 charges have been escalated by 5% y-o-y for the control period.
- **RPO Cost for the Control Period:**
 - As per Joint Electricity Regulatory Commission for State of Goa & Union

Territories (Procurement of Renewable Energy) Regulations, 2010 and as amended on 19th February 2013, quantum of Renewable Purchase Obligations has been specified for each year whereby each distribution licensee needs to purchase electricity (in kWh) from renewable energy sources, at a defined minimum percentage of the total consumption of all the consumers in its area during a year.

- PED submits that it is obliged to comply with the Renewable Purchase Obligation and therefore has projected the RPO cost for MYT Control Period.
- PED further submits that the RPO obligations can be met either through the purchase of energy from renewable sources or through REC certificates. However, considering the availability of the Renewable Power, PED has proposed to procure REC against the RPO.
- The RPO cost for the control period based on the percentage of solar and non-solar RPO specified by JERC is tabulated below considering the floor price of solar and non-solar RECs. Prevailing floor price of solar RECs is Rs. 3500/REC and for non-solar Rs. 1500/REC.

Table 6-11: RPO Cost for the Control Period

| Year | Sales | Solar Obligation | Non-solar obligation | Solar PO | Non-solar PO | Adjustments against excess compliance of solar RPO till FY 2015-16 end | Solar REC Cost | Non-solar REC cost | Total Cost |
|------------|----------|------------------|----------------------|----------|--------------|--|----------------|--------------------|------------|
| | (MUs) | % | % | (MUs) | (MUs) | (MUs) | (Rs./REC) | (Rs./REC) | (Rs. Crs.) |
| FY 2016-17 | 2,797.08 | 1.15% | 2.80% | 32.17 | 78.32 | (2.00) | 3500 | 1500 | 22.31 |
| FY 2017-18 | 2,980.60 | 1.50% | 2.80% | 44.71 | 83.46 | - | 3500 | 1500 | 28.17 |
| FY 2018-19 | 3,177.04 | 1.85% | 2.80% | 58.78 | 88.96 | - | 3500 | 1500 | 33.91 |

6.8.6 The petitioner would like to submit that in line with the suggestion of Hon'ble Commission, it is making arrangements to purchase physical solar power instead of REC to meet its solar obligations. The purchase of power from those plants will be included in the ARRs of the subsequent years, once the plants commission and start supplying power to PED.

6.8.7 The details of the power purchase available vis-à-vis power procured under MOD principle in the MYT Control period as well as the power procurement cost including the transmission charges, RPO Charges and Rebate has been outlined in the following table:

Table 6-12: Power Available and Power Procurement (MoD) for Control Period

| S. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Avail. / PLF (in %) | Gross Generation (MU) | Aux consumption (%) | Net Generation (MU) | External losses (%) | Energy recd. by Licensee (MU) | Power Available | | | Power Procurement (MoD) | | |
|----------|--------------------------------------|---------------|-----------------------------|-------|---------------------|-----------------------|---------------------|---------------------|---------------------|-------------------------------|-----------------------------------|-----------------|-----------------|-------------------------|-----------------|---------|
| | | | % | MW | | | | | | | Net MUs at distribution periphery | | | | | |
| | | | | | | | | | | | 2016-17 | 2017-18 | 2018-19 | 2016-17 | 2017-18 | 2018-19 |
| A | Central Sector Power Stations | | | | | | | | | | | | | | | |
| I | NTPC | - | - | - | - | - | - | 5% | 1,306.39 | 1,306.39 | 1,306.39 | 1,306.39 | 984.06 | 1,181.75 | 1,374.77 | |
| | RSTPS Stage I & II | 2,100 | 4.23 | 88.83 | 90.36 | 16,622.63 | 6.50 | 15,542.15 | 5% | 624.73 | 624.73 | 624.73 | 624.73 | 544.49 | 657.43 | 657.43 |
| | RSTPS Stage-III | 500 | 4.50 | 22.50 | 90.54 | 3,965.65 | 6.50 | 3,707.88 | 5% | 158.56 | 158.56 | 158.56 | 158.56 | (0.00) | 84.73 | 166.85 |
| | Talcher Stage- II | 2,000 | 3.28 | 65.60 | 85.47 | 14,974.34 | 10.50 | 13,402.04 | 5% | 417.72 | 417.72 | 417.72 | 417.72 | 439.59 | 439.59 | 439.59 |
| | Simhadri Stage- II | 1,000 | 1.63 | 16.30 | 82.62 | 7,237.51 | 6.00 | 6,803.26 | 5% | 105.38 | 105.38 | 105.38 | 105.38 | (0.00) | (0.00) | 110.89 |
| II | NLC | | | | | - | - | 5% | 1,022.41 | 1,022.41 | 1,022.41 | 1,022.41 | 1,001.94 | 1,001.94 | 1,020.40 | |
| | NLC TPS II Stage I | 630 | 13.07 | 82.34 | 86.77 | 4,788.66 | 12.00 | 4,214.02 | 5% | 523.38 | 523.38 | 523.38 | 523.38 | 550.77 | 550.77 | 550.77 |
| | NLC TPS II Stage II | 840 | 3.69 | 31.00 | 86.59 | 6,371.64 | 10.00 | 5,734.47 | 5% | 201.08 | 201.08 | 201.08 | 201.08 | 211.60 | 211.60 | 211.60 |
| | NLC TPS I (Expn) | 420 | 4.07 | 17.09 | 88.52 | 3,256.83 | 8.50 | 2,980.00 | 5% | 115.25 | 115.25 | 115.25 | 115.25 | 121.29 | 121.29 | 121.29 |
| | NLC TPS II (Expn) | 500 | 3.53 | 17.65 | 85.00 | 3,723.00 | 10.00 | 3,350.70 | 5% | 112.40 | 112.40 | 112.40 | 112.40 | 118.28 | 118.28 | 118.28 |
| | NTPL | 1,000 | 1.08 | 10.80 | 85.00 | 7,446.00 | 8.00 | 6,850.32 | 5% | 70.30 | 70.30 | 70.30 | 70.30 | 0.00 | 0.00 | 18.46 |
| III | NPCIL | | | | | - | - | 5% | 553.59 | 553.59 | 553.59 | 553.59 | 582.57 | 582.57 | 582.57 | |
| | MAPS | 440 | 1.79 | 7.88 | 63.70 | 2,455.25 | 10.00 | 2,209.73 | 5% | 37.59 | 37.59 | 37.59 | 37.59 | 39.55 | 39.55 | 39.55 |
| | KAPS Stage I U1&2 | 440 | 4.20 | 18.48 | 75.24 | 2,900.05 | 10.00 | 2,610.05 | 5% | 104.17 | 104.17 | 104.17 | 104.17 | 109.62 | 109.62 | 109.62 |
| | KAPS Stage I U3&4 | 440 | 3.75 | 16.50 | 73.28 | 2,824.50 | 10.00 | 2,542.05 | 5% | 90.59 | 90.59 | 90.59 | 90.59 | 95.33 | 95.33 | 95.33 |
| | Kudankulam | 2,000 | 3.35 | 67.00 | 64.00 | 11,212.80 | 10.00 | 10,091.52 | 5% | 321.25 | 321.25 | 321.25 | 321.25 | 338.07 | 338.07 | 338.07 |
| IV | Others | | | | | - | - | - | 440.56 | 440.56 | 450.71 | 461.17 | 458.28 | 468.80 | 479.64 | |
| | TNEB (Pondy) | | | | | - | - | 4% | - | | | | | | | |
| | TNEB (Karaikal) | | | | | - | - | 4% | 296.96 | 296.96 | 305.86 | 315.04 | 309.33 | 318.61 | 328.17 | |
| | Vallur Thermal Project | 1,000 | 1.64 | 16 | 80.00 | 7,008.00 | 6.50 | 6,552.48 | 5% | 102.12 | 102.12 | 102.12 | 102.12 | 107.46 | 107.46 | 107.46 |
| | KSEB | | | | | | | 0% | 41.49 | 41.49 | 42.73 | 44.02 | 41.49 | 42.73 | 44.02 | |
| B | Within State Generations | | | | | | | | - | | | | | | | |
| I | PPCL | 33 | 100 | 33 | 86.46 | 246.15 | 5.00 | 233.84 | 0% | 233.84 | 233.84 | 233.84 | 233.84 | 233.84 | 233.84 | 233.84 |
| E | Total | - | - | - | - | | | - | 3,556.79 | 3,556.79 | 3,566.95 | 3,577.40 | 3,260.70 | 3,468.91 | 3,691.23 | |

Table 6-13: Power Procurement Cost for Control Period

| S. No. | Source | Purchase (MU) | | | VC (Ps./kWh) | | | VC (Rs.Cr.) | | | FC (Rs.Cr.) | | | TC (Rs.Cr.) | | |
|------------|--|-----------------|-----------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------------|-----------------|
| | | 2016-17 | 2017-18 | 2018-19 | 2016-17 | 2017-18 | 2018-19 | 2016-17 | 2017-18 | 2018-19 | 2016-17 | 2017-18 | 2018-19 | 2016-17 | 2017-18 | 2018-19 |
| A | Central Sector Power Stations | | | | | | | | | | | | | | | |
| I | NTPC | 984.06 | 1,181.75 | 1,374.77 | 198.83 | 206.76 | 213.11 | 195.66 | 244.34 | 292.98 | 88.65 | 88.65 | 88.65 | 284.31 | 332.99 | 381.62 |
| | RSTPS Stage I & II | 544.49 | 657.43 | 657.43 | 246.15 | 246.15 | 246.15 | 134 | 162 | 162 | 32 | 32 | 32 | 166 | 194 | 194 |
| | RSTPS Stage -III | (0.00) | 84.73 | 166.85 | 246.37 | 246.37 | 246.37 | (0) | 21 | 41 | 9 | 9 | 9 | 9 | 30 | 50 |
| | Talcher Stage- II | 439.59 | 439.59 | 439.59 | 140.22 | 140.22 | 140.22 | 62 | 62 | 62 | 36 | 36 | 36 | 97 | 97 | 97 |
| | Simhadri Stage- II | (0.00) | (0.00) | 110.89 | 256.12 | 256.12 | 256.12 | (0) | (0) | 28 | 12 | 12 | 12 | 12 | 12 | 40 |
| II | NLC | 1,001.94 | 1,001.94 | 1,020.40 | 230.16 | 230.16 | 230.77 | 230.61 | 230.61 | 235.48 | 73.32 | 73.32 | 73.32 | 303.93 | 303.93 | 308.80 |
| | NLC TPS II Stage I | 550.77 | 550.77 | 550.77 | 233.57 | 233.57 | 233.57 | 129 | 129 | 129 | 34 | 34 | 34 | 163 | 163 | 163 |
| | NLC TPS II Stage II | 211.60 | 211.60 | 211.60 | 233.58 | 233.58 | 233.58 | 49 | 49 | 49 | 13 | 13 | 13 | 62 | 62 | 62 |
| | NLC TPS I (Expn) | 121.29 | 121.29 | 121.29 | 220.29 | 220.29 | 220.29 | 27 | 27 | 27 | 18 | 18 | 18 | 45 | 45 | 45 |
| | NLC TPS II (Expn) | 118.28 | 118.28 | 118.28 | 218.29 | 218.29 | 218.29 | 26 | 26 | 26 | 6 | 6 | 6 | 32 | 32 | 32 |
| | NTPL | 0.00 | 0.00 | 18.46 | 264.01 | 264.01 | 264.01 | 0 | 0 | 5 | 2 | 2 | 2 | 2 | 2 | 7 |
| III | NPCIL | 582.57 | 582.57 | 582.57 | 324.43 | 324.43 | 324.43 | 189.01 | 189.01 | 189.01 | - | - | - | 189.01 | 189.01 | 189.01 |
| | MAPS | 39.55 | 39.55 | 39.55 | 202.69 | 202.69 | 202.69 | 8 | 8 | 8 | | | | 8 | 8 | 8 |
| | KAPS Stage I U1&2 | 109.62 | 109.62 | 109.62 | 298.37 | 298.37 | 298.37 | 33 | 33 | 33 | | | | 33 | 33 | 33 |
| | KAPS Stage I U3&4 | 95.33 | 95.33 | 95.33 | 298.37 | 298.37 | 298.37 | 28 | 28 | 28 | | | | 28 | 28 | 28 |
| | Kudankulam | 338.07 | 338.07 | 338.07 | 354.48 | 354.48 | 354.48 | 120 | 120 | 120 | | | | 120 | 120 | 120 |
| IV | Others | 458.28 | 468.80 | 479.64 | 327.62 | 328.49 | 329.34 | 150.14 | 154.00 | 157.97 | 22.76 | 22.76 | 22.76 | 172.90 | 176.75 | 180.72 |
| | TNEB (Pondy) | | | | - | - | - | | | | | | | | | |
| | TNEB (Karaikal) | 309.33 | 318.61 | 328.17 | 347.00 | 347.00 | 347.00 | 107 | 111 | 114 | - | - | - | 107 | 111 | 114 |
| | Vallur Thermal Project | 107.46 | 107.46 | 107.46 | 201.41 | 201.41 | 201.41 | 22 | 22 | 22 | 20 | 20 | 20 | 41 | 41 | 41 |
| | KSEB | 41.49 | 42.73 | 44.02 | 510.00 | 510.00 | 510.00 | 21 | 22 | 22 | 3 | 3 | 3 | 24 | 25 | 25 |
| B | Within State Generations | | | | | | | | | | | | | | | |
| I | PPCL | 233.84 | 233.84 | 233.84 | 350.51 | 350.51 | 350.51 | 82 | 82 | 82 | 19 | 19 | 19 | 101 | 101 | 101 |
| C | OTHER CHARGES | | | | | | | | | | | | | 67.78 | 71.38 | 75.17 |
| I | PGCIL Transmission Charges, Wheeling & Other Charges | | | | | | | | | | | | | 66.59 | 70.13 | 73.87 |
| | POSOCO | | | | | | | | | | | | | 0.81 | 0.85 | 0.89 |
| | PCKL | | | | | | | | | | | | | 0.38 | 0.40 | 0.42 |
| D | RPO Compliance Cost | | | | | | | | | | | | | 22.31 | 28.17 | 33.91 |
| E | Rebate | | | | | | | | | | | | | (17.03) | (18.12) | (19.28) |
| F | Total | 3,260.70 | 3,468.91 | 3,691.23 | 259.88 | 259.42 | 259.37 | 847.38 | 899.91 | 957.39 | 204.14 | 204.14 | 204.14 | 1,124.57 | 1,185.47 | 1,251.34 |

6.8.8 With respect to the above submission, PED requests the Hon'ble Commission to approve the total quantum and cost of power purchase for the control period based on merit order principles as summarized above.

6.9 Employee Expense

6.9.1 As per the provision 21 (b) of the Multi Year Distribution Tariff Regulations 2014, norm for Employee Expenses shall be defined in terms of combination of number of personnel per 1000 consumers and number of personnel per substation along with annual expenses per personnel.

6.9.2 The Hon'ble Commission analysed the actual employee expense, number of employees per '000 consumers for the last five years while setting up the norm for the control period.

6.9.3 Based on the analysis and average norm submitted by PED, the Commission has approved the norm of 4.52 employees per '000 consumers for the control period FY 2016-17 to FY 2018-19 in the Business plan order dated 04th December, 2015.

6.9.4 The Commission has also approved employee expense of Rs. 3,12,825 per personnel as reasonable for the Control Period FY 2016-17 to FY 2018-19.

6.9.5 The relevant extract of business plan order related to employee expense is mentioned below.

"The Commission, considers the employee expense of Rs. 312,825 per personnel as reasonable for the control period FY 2016-17 to FY 2018-19, based on the average of actual data for FY 2012-13 and FY 2013-14 (as on end of FY 2013-14).

The same has to be considered as base employee expense (as on end of FY 2013-14) and suitable escalated by the Wholesale price index (WPI) for immediately preceding three years as per the Regulation 21.1 of the Multi Year Distribution Tariff Regulations 2014 to arrive at the employee expenses for the control period. "

Table 6-14: Employee norms approved for the MYT Control Period

| S. No. | Approved Employee Norms | |
|--------|--|--------------|
| 1 | Base employee expense per personnel (as on end of (FY 2013-14) | Rs. 3,12,825 |
| 2 | Employees per '000 consumers | 4.52 |

6.9.6 The Hon'ble Commission has deviated from the regulation while determining the norms for the control period.

6.9.7 The relevant excerpts from the MYT regulations are given below.

“ Regulation 21 (h) The Distribution Licensee specific trajectory of norms shall be identified by the Commission on the basis of absolute and relative analysis.

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

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

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

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

6.9.8 The employee expense approved per personnel of Rs. 3,12,825 is lower than that in FY 2013-14 of Rs. 3,35,412 and therefore, the inflation factor has been ignored by the Hon’ble Commission. This may lead to approval of lower losses for the control period.

6.9.9 Based on the MYT Regulations and the business plan order, the employee cost projected for the Control Period is mentioned below. The average WPI Index of last three years i.e. 5.11% has been considered for escalating employee expense per employee of FY 2013-14 (base year) for the Control period.

Table 6-15: WPI index of last three years

| Sr. No. | Period | WPI | Increase over previous year |
|---------|---------------------------------|--------|-----------------------------|
| 1 | Financial Year 2010-11 | 143.33 | |
| 2 | Financial Year 2011-12 | 156.13 | 8.93% |
| 3 | Financial Year 2012-13 | 167.62 | 7.36% |
| 4 | Financial Year 2013-14 | 177.64 | 5.98% |
| 5 | Financial Year 2014-15 | 181.19 | 2.00% |
| 6 | Average WPI of last three years | | 5.11% |

Table 6-16: Employee expense based on approved norms for the MYT Control Period

| S. No. | Particulars | FY 2013-14 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|--------|---|------------|--------------|--------------|--------------|
| 1 | Employee Expense per Employee (Rs) | 312825 | 363273 | 381837 | 401348 |
| 2 | Number of employees per '000 consumers | | 4.52 | 4.52 | 4.52 |
| 3 | Number of consumers ('000) | | 458 | 474 | 490 |
| 4 | Number of employees | | 2068 | 2141 | 2216 |
| 5 | Projected employee Cost (Rs. Crs.) | | 75.12 | 81.75 | 88.94 |

6.9.10 The impact of 7th pay Commission is not considered while projecting the expenses for the control period. However, in case the same is implemented by the Central Government, PED would be submitting the impact of the same at the time of filing the true-up petition.

6.9.11 PED requests the Hon'ble Commission to approve the employee expenses as projected for the Control Period based on approved norms and also to reconsider the norms based on the approach specified in the Regulations.

6.10 A&G Expense

6.10.1 As per the provision 21 (b) of the Multi Year Distribution Tariff Regulations 2014, norm for A&G Expenses shall be defined in terms of combination of A&G expense per personnel and A&G expense per 1000 consumers.

6.10.2 The relevant extracts of the business plan order related to A&G expense is provided below.

"The Commission has noted that the sudden increase in miscellaneous expenses for FY 2013-14 is due to increase in payment of consultancy fees, legal fees and clearing backlog of license fees. The Commission has, therefore, not considered FY 2013-14. The Commission has considered the average of FY 2011-12 and FY 2012-13 for arriving at the norms for the control period. The Commission reiterates that as per the regulations, provisions for one-time expenses are there and same shall be allowed on 'as and when basis' after due prudence check by the Commission.

Based on average A&G expenses per employee of FY 2011-12 and FY 2012-13, A&G expense per employee of Rs. 17592 (as on end of FY 2012-13) has been considered to be reasonable for the control period. Similarly, based on average of FY 2011-12 and FY 2012-13, A&G expense per '000 consumers of Rs. 103,436 (as on end of FY 2012-13) has been considered to be reasonable for the control period.

The Commission approves the weightage of these two factors in overall A&G computation as 50:50 and same should be considered by the Petitioner while arriving

at the A&G expenses for the control period during the MYT filing.”

Table 6-17: A&G norms approved for the MYT Period

| S.No. | Approved A&G norms | |
|-------|--|--------------|
| 1 | A&G expense per employee (as on end of FY 2012-13) | Rs. 17, 592 |
| 2 | A&G expense per '000 consumer | Rs. 1,03,436 |

6.10.3 PED submits to the Hon'ble Commission that only FY 2011-12 and FY 2012-13 have been considered for arriving at the norms for the control period. The Commission has not considered FY 2013-14 due to sudden increase in miscellaneous expense on account of payment of consultancy fees, legal fees and clearing backlog of license fees.

6.10.4 PED submits to the Hon'ble Commission that while determining the norms the Commission has not considered FY 2013-14 due to higher A&G expenses in the year on account of increase in payment of consultancy fees, legal fees and clearing backlog of license fees. This has led to approval of lower A&G expense per employee and A&G expense per '000 consumers. However, these expenses will be routine in nature and will be incurred every year (excluding backlog of license fees) and therefore is required to be considered for calculation of average A&G expenses or the same needs to be claimed separately in ARR as it has not been considered in A&G expenses. The petitioner submits to the Hon'ble Commission that the approach may lead to approval of lower A&G expenses for the control period and may kindly reconsider the norms.

6.10.5 Based on the MYT Regulations and the approved norms in the business plan order, the A&G expense projected for the Control Period based on average WPI Index of last three years i.e. 5.11% which is escalated considering A&G norm of FY 2012-13 as the base period is provided below.

Table 6-18: A&G expense based on approved norms for the MYT Control Period

| S. No. | Particulars | Weightage | FY 2012-13 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|--------|---|-----------|------------|-------------|-------------|-------------|
| 1 | Average A&G expense per employee (Rs.) | | 17592 | 21473 | 22570 | 23724 |
| 2 | Average A&G expense per '000 consumers (Rs.) | | 103436 | 126255 | 132706 | 139488 |
| 3 | Number of Employee | | | 2068 | 2141 | 2216 |
| 4 | Number of consumers ('000) | | | 458 | 474 | 490 |
| 5 | A&G expense per employee (Rs.Crs) - 50% | 50% | | 2.22 | 2.42 | 2.63 |
| 6 | A&G expense per '000 consumers (Rs.Crs) - 50% | 50% | | 2.89 | 3.14 | 3.42 |
| 7 | Projected total A&G expense (Rs. Crs.) | | | 5.11 | 5.56 | 6.05 |

6.10.6 PED requests the Hon'ble Commission to approve the A&G expense projected for the MYT Control Period based on approved A&G norms.

6.11 Repair and Maintenance Expenses

6.11.1 As per the Regulation 21 (b) and 21.2 of the Multi Year Distribution Tariff Regulations 2014, norm for R&M Expenses shall be defined in terms of percentage of opening gross fixed assets for estimation of R&M expenses.

6.11.2 The relevant extracts of the business plan order related to R&M norms is reproduced below.

" The Commission has noted that the abnormally high R&M expenses for FY 2011-12 are due to the increase in R&M works due to cyclone disaster in the Puducherry area. The Commission has, therefore, considered the normalized trend of the historical expenses for the last 3 years, excluding expense for FY 2011-12.

The average of FY 2010-11, FY 2012-13 and FY 2013-14 results into a K-factor of 2.34%. The Commission has made note that the Petitioner, has sought K-factor of 2.68% based on the average of the last 5 years. The Commission, in the interest of stakeholders, approves K-factor of 2.68% as sought by the Petitioner so that the Petitioner has sufficient corpus of R&M funds available for the regular up-keep and maintenance of the network during the control period. "

6.11.3 Based on the past trend of R&M expenses in % to GFA, and on the petitioners request the Commission has approved k-factor of 2.68% for the control period. The R&M expense for the control period based on opening GFA, k-factor and inflation index of 7.32% (60:40 of CPI:WPI) is as follows.

Table 6-19: R&M Expenses for the Control Period

| S. No. | Particulars | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|--------|------------------------------------|--------------|--------------|--------------|
| 1 | Opening GFA (Rs. Crs) | 697.28 | 787.81 | 943.95 |
| 4 | K Factor - Approved by Commission | | 2.68% | |
| 5 | Inflation index (60:40=CPI:WPI) | | 7.32% | |
| 6 | R&M Expenses (Rs. Crs.) | 20.05 | 22.66 | 27.15 |

6.11.4 PED requests the Hon'ble Commission to approve the R&M expense as projected for the Control Period based on approved R&M norms.

6.12 Details of Capital Expenditure during MYT Control Period

6.12.1 Introduction

6.12.1.1 The distribution network of PED is old and it has been continuously upgrading and strengthening its network to cater quality and reliable power services to its increasing consumer base.

6.12.1.2 The distribution network of PED needs to be developed and strengthened in such a way that demand of such rising consumers can be met. The majority of the capital expenditure during the control period is required to address this demand requirement. This section discusses the scheme wise capital expenditure and funding of the same to be carried out by PED during the MYT control period.

6.12.2 Details of Capital Expenditure

6.12.2.1 PED plans to carry out the capital expenditure during the control period for augmentation and expansion of its capacity and to reduce the transmission and distribution loss in the system. The works to be carried out are with an intention to maintain a reliable and efficient system.

6.12.2.2 The Hon'ble Commission has analysed the various transmission and distribution schemes proposed during the control period along with justification for each scheme.

6.12.2.3 Based on the analysis, the Hon'ble Commission has approved the various schemes proposed for transmission strengthening purposes under the JICA loan.

6.12.2.4 Since the process of availing loan from JICA is still at a nascent stage the Commission in the interest of the stakeholders has carried forward the capex under various JICA funded schemes for FY 2016-17 to FY 2017-18 and has accordingly considered the capex for FY 2017-18.

6.12.2.5 The Commission has directed to submit the details of actual capital expenditure incurred under the transmission schemes each year during review/true-up of the respective year.

6.12.2.6 The various transmission schemes approved for the control period are mentioned below.

Table 6-20: On-going transmission schemes approved for the MYT Control Period

(Rs.Crs.)

| S.No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|-------|---|------------|----------|------------|----------|------------|----------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| 1 | Strengthening of 110 KV Villianur - Bahour line | 1.65 | 1.65 | | | | |
| 2 | Erection/ establishment/ Upgradation (scp)special component plan | 20.00 | 20.00 | 20.40 | 20.40 | 20.81 | 20.81 |
| 3 | Erection/ establishment/ upgradation of 230kV and 110kV SS (main component) | | | | | | |

Table 6-21: Transmission strengthening schemes under the JICA loan approved for the MYT Control Period

| S.No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|--------------|---|--------------|-------------|--------------|---------------|--------------|--------------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| 1 | Laying of 110 KV cable from kurumbapet SS to 110kV proposed Lawspet SS and Venkatanagar 110kV SS | 10.00 | - | 15.00 | 25.00 | 15.00 | 15.00 |
| 2 | Establishment of 230/110 KV Auto SS at Karaikal | 8.00 | - | 12.00 | 20.00 | 8.00 | 8.00 |
| 3 | Establishment of Thondamanatham 110/22 KV SS with 2x25 MVA Power Transformer capacity. | 5.60 | - | 6.00 | 11.60 | - | - |
| 4 | Addition of Transformer Capacity of 80 MVA at Bahour Auto SS | 3.00 | - | 3.58 | 6.58 | - | - |
| 5 | Provision of additional 100 MVA Power Transformer at Villianur 230 KV SS | - | - | 3.00 | 3.00 | 3.96 | 3.96 |
| 6 | Renovation and Modernisation of Villianur 230 KV Auto SS | - | - | 2.00 | 2.00 | 2.61 | 2.61 |
| 7 | Establishment of 110/22 SS with 2x25 MVA Power Transformer near Thavalakuppam including Land acquisition and associated line portion | - | - | 5.10 | 5.10 | 10.00 | 10.00 |
| 8 | Establishment of 110/22 SS with 2x25 MVA Power Transformer near Thirubuvanai including Land acquisition and associated line portion | - | - | 4.50 | 4.50 | 2.97 | 2.97 |
| 9 | Establishment of 110/22 SS with 2x16 MVA Power Transformer at Kottucherry (Karaikal) including Land acquisition and associated line portion | - | - | 5.00 | 5.00 | 7.50 | 7.50 |
| 10 | Augmentation of Transgormer capacity at Villanur 110 KV SS with each 2x25 MVA Power Transformer capacity | 2.95 | - | 2.95 | 5.90 | - | - |
| 11 | Renovation and Modernisation and Augmentation of Transformer capacities at Kalapet 110/22 KV SS with 2x16 MVA. | 2.50 | - | 2.50 | 5.00 | 2.80 | 2.80 |
| 12 | Renovation and Modernisation and Augmentation of Transformer capacities at Thettampakkam 110/22 KV SS with 2x16 MVA | 2.17 | - | 3.00 | 5.17 | 3.00 | 3.00 |
| 13 | Renovation and Modernisation of 110/22-11 KV Marapalam SS | 1.00 | - | 1.89 | 2.89 | - | - |
| 14 | Renovation and Modernisation of 110/11 KV Surakudy SS, Karaikal | 1.00 | - | 1.73 | 2.73 | - | - |
| 15 | Replacement of Capacitor Banks at various Sub Stations. | 2.00 | - | 2.00 | 4.00 | 1.50 | 1.50 |
| 16 | Erection/ establishment/ upgradation of 110kV GIS at New Assembly Complex | 10.00 | - | 10.00 | 20.00 | - | - |
| Total | | 48.22 | 0.00 | 80.25 | 128.47 | 57.34 | 57.34 |

Table 6-22: Total transmission capital expenditure approved for the MYT Period

(Rs.Crs.)

| S.No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|-------|---|--------------|--------------|---------------|---------------|--------------|--------------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| 1 | Establishment of New Substations | 23.60 | - | 47.60 | 71.20 | 43.47 | 43.47 |
| 2 | Augmentation of System Capacity | 5.95 | - | 9.53 | 15.48 | 3.96 | 3.96 |
| 3 | Renovation and Mordenization Works of Existing Capacity | 8.32 | 1.65 | 11.12 | 17.79 | 8.41 | 8.41 |
| 4 | Replacement of Capacitor Banks | 2.00 | - | 2.00 | 4.00 | 1.50 | 1.50 |
| 5 | Erection/ establishment/ upgradation of 230kV and 110kV Substations | 30.00 | 20.00 | 30.40 | 40.40 | 20.81 | 20.81 |
| | Total Transmission | 69.87 | 21.65 | 100.65 | 148.87 | 78.15 | 78.15 |

6.12.3 The Hon'ble Commission has taken note of all the distribution schemes proposed by PED and has approved the entire cost proposed over the control period.

6.12.4 **100% metering** - PED had proposed capex of Rs. 8.37 Crores during the control period spread over three years. However, in the interest of the stakeholders and earlier directives in the Tariff orders, the Commission has approved the entire capex of Rs. 8.37 Crs to be implemented in a two year time frame during FY 2016-17 and FY 2018-19. The Commission has considered equal split of Rs. 4.19 Crores each over two years i.e. FY 2016-17 and FY 2017-18.

6.12.5 The Hon'ble Commission has approved the various distribution schemes as proposed by PED for the Control Period considering it essential to improve the supply to various regions of the UT of Puducherry. The funding of these schemes has been considered under budgetary support from the Government of Puducherry. The various schemes proposed and approved by Commission are mentioned below.

Table 6-23: Total distribution capital expenditure approved for the MYT Control Period

(Rs.Crs.)

| S.No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|-------|--|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| 1 | R-APDRP Part-A Works | 1.72 | 1.72 | - | - | - | - |
| 2 | R-APDRP Part-B Works | 30.00 | 30.00 | 30.00 | 30.00 | - | - |
| 3 | System Improvement Schemes | 7.80 | 7.80 | 7.96 | 7.96 | 8.12 | 8.12 |
| 4 | Development Schemes | 10.35 | 10.35 | 10.56 | 10.56 | 10.77 | 10.77 |
| 5 | Rural Electrification (BNP) | 0.75 | 0.75 | 0.77 | 0.77 | 0.78 | 0.78 |
| 6 | 100% Metering Programme | 2.75 | 4.19 | 2.81 | 4.19 | 2.81 | - |
| 7 | Conversion of HT Overhead lines into UG cables | 4.10 | 4.10 | 4.18 | 4.18 | 4.27 | 4.27 |
| | Total Distribution | 57.47 | 58.91 | 56.27 | 57.66 | 26.73 | 23.94 |

6.12.6 Based on the above analysis, the total capital expenditure approved by the Hon'ble Commission for the control period FY 2016-17 to FY 2018-19 is mentioned below.

Table 6-24: Capital Expenditure approved for MYT Control Period

(Rs.Crs.)

| S.No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|----------|---|---------------|--------------|---------------|---------------|---------------|---------------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| A | Transmission Schemes | | | | | | |
| 1 | Establishment of New Substations | 23.60 | - | 47.60 | 71.20 | 43.47 | 43.47 |
| 2 | Augmentation of System Capacity | 5.95 | - | 9.53 | 15.48 | 3.96 | 3.96 |
| 3 | Renovation and Modernization Works of Existing Capacity | 8.32 | 1.65 | 11.12 | 17.79 | 8.41 | 8.41 |
| 4 | Replacement of Capacitor Banks | 2.00 | - | 2.00 | 4.00 | 1.50 | 1.50 |
| 5 | Erection/ establishment/ upgradation of 230kV and 110kV Substations | 30.00 | 20.00 | 30.40 | 40.40 | 20.81 | 20.81 |
| | Total Transmission | 69.87 | 21.65 | 100.65 | 148.87 | 78.15 | 78.15 |
| B | Distribution Schemes | | | | | | |
| 1 | R-APDRP Part-A Works | 1.72 | 1.72 | - | - | - | - |
| 2 | R-APDRP Part-B Works | 30.00 | 30.00 | 30.00 | 30.00 | - | - |
| 3 | System Improvement Schemes | 7.80 | 7.80 | 7.96 | 7.96 | 8.12 | 8.12 |
| 4 | Development Schemes | 10.35 | 10.35 | 10.56 | 10.56 | 10.77 | 10.77 |
| 5 | Rural Electrification (BNP) | 0.75 | 0.75 | 0.77 | 0.77 | 0.78 | 0.78 |
| 6 | 100% Metering Programme | 2.75 | 4.19 | 2.81 | 4.19 | 2.81 | |
| 7 | Conversion of HT Overhead lines into UG cables | 4.10 | 4.10 | 4.18 | 4.18 | 4.27 | 4.27 |
| | Total Distribution | 57.47 | 58.91 | 56.27 | 57.66 | 26.73 | 23.94 |
| | Total Capital Expenditure | 127.34 | 80.56 | 156.92 | 206.53 | 104.88 | 102.09 |

6.12.7 As seen from the table, majority of the capital expenditure is diverted towards establishment of new substations and system strengthening under R-APDRP works. Also significant amount of capital expenditure is towards renovation and modernization / augmentation of system capacity. The approved capital expenditure will definitely be helpful to achieve the loss targets set by PED in its distribution loss trajectory and to meet any additional load surging due to increase in demand.

6.13 Funding of Capital Expenditure

6.13.1 The Commission has considered the scheme-wise funding details as submitted by the PED.

6.13.2 PED plans on funding majority of its capital expenditure through loan from Japan International Co-Operation Agency (JICA). The works carried out under R-APDRP (Part A&B) is funded by Power Finance Corporation.

6.13.3 The Commission has considered the PFC funding for R-APDRP schemes to be treated as 'loan' i.e. debt initially and later when PFC allows it as 'grant' based on the

fulfilment of conditions by PED, they shall treat it as 'grant'.

6.13.4 The funding pattern approved by the Commission is shown below.

Table 6-25: Funding of CAPEX approved by the Commission

(Rs.Crs.)

| S.No. | Particulars | Type | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|----------|--|--------|---------------|--------------|---------------|---------------|---------------|---------------|
| | | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| 1 | JICA | Debt | 49.87 | - | 80.25 | 128.47 | 57.34 | 57.34 |
| 2 | Power Finance Corporation (PFC) | Debt | 31.72 | 31.72 | 30 | 30 | - | - |
| A | Total Debt (1+2) | | 81.59 | 31.72 | 110.25 | 158.47 | 57.34 | 57.34 |
| 3 | EDP Funding from Budgetary Allocation | Equity | 45.75 | 48.84 | 46.67 | 48.06 | 47.54 | 44.75 |
| B | Total Equity (3) | | 45.75 | 48.84 | 46.67 | 48.06 | 47.54 | 44.75 |
| C | Total Capital Expenditure (A+B) | | 127.34 | 80.56 | 156.92 | 206.53 | 104.88 | 102.09 |
| D | Debt : Equity Ratio | | 64:36 | 39:61 | 70:30 | 77:23 | 55:45 | 56:44 |

* PFC disbursement may be converted as grant on achieving the targets.

6.13.5 Based on the above funding the average debt equity ratio is 64:36. However the ratio may change based on the change in the debt component.

6.14 Capitalisation

6.14.1 PED has proposed capitalization of the assets during the control period in the ratio of 60:40 of the capital expenditure whereby 60% of the capitalization in the first year and 40% in the succeeding year of the control period in the Business plan petition. The Commission has considered the rationale submitted by PED as reasonable for capitalisation ratio on an average basis and has approved the same in the order dated 04th December, 2015.

6.14.2 The capitalisation as proposed and approved by the Hon'ble Commission is mentioned below.

Table 6-26: CAPEX and CAPITALISATION approved for MYT Control Period

(Rs.Crs.)

| S.No. | Particulars | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
|-------|----------------|------------|----------|------------|----------|------------|----------|
| | | Submitted | Approved | Submitted | Approved | Submitted | Approved |
| 1 | CAPEX | 127.34 | 80.56 | 156.92 | 206.53 | 104.88 | 102.09 |
| 2 | Capitalisation | 76.40 | 90.53 | 145.09 | 156.14 | 125.70 | 143.86 |

6.15 Gross Fixed Assets and Depreciation

6.15.1 Also, as per regulation 23 of the MYT regulations, 2014, depreciation shall be

calculated for each year of the Control Period on the original cost of the fixed assets of the corresponding year.

6.15.2 The rate of depreciation considered is as per the CERC (Terms and Conditions of Tariff) Regulations, 2014.

Table 6-27: GFA and Depreciation for the Control Period

| S. No. | Particulars | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|--------|--|---------------|---------------|----------------|
| 1 | Opening value of the assets at the beginning of the year | 697.28 | 787.81 | 943.95 |
| 2 | Additions during the year | 90.53 | 156.14 | 143.86 |
| 3 | Gross Fixed Assets at the end of the year | 787.81 | 943.95 | 1087.81 |
| 4 | Net Depreciation for the year | 32.24 | 38.93 | 46.86 |
| 5 | Average Depreciation Rate | 4.34% | 4.50% | 4.61% |

6.15.1 In view of the above, the Hon`ble commission is requested to allow the depreciation charges as provided above for the control period.

6.16 Interest on Loan

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

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

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

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

6.16.2 The Interest on loan for the Control Period based on MYT regulations, 2014 is tabulated below.

Table 6-28: Interest on Loan for the Control Period

| S. No. | Particulars | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|--------|---|--------------|--------------|--------------|
| 1 | Opening Normative Loan | 165.01 | 196.15 | 266.52 |
| 2 | Add: Normative Loan during the Year | 63.37 | 109.30 | 100.70 |
| 3 | Less: Normative Repayment | 32.24 | 38.93 | 46.86 |
| 4 | Closing Normative Loan | 196.15 | 266.52 | 320.36 |
| 5 | Average Normative Loan | 180.58 | 231.34 | 293.44 |
| 6 | Rate of Interest(@SBAR) | 14.75% | 14.75% | 14.75% |
| 7 | Interest on Normative Loan | 26.64 | 34.12 | 43.28 |
| 7 | Other Finance Charges | 2.17 | 2.27 | 2.39 |
| 9 | Total Interest and Finance Charges | 28.80 | 36.40 | 45.67 |

6.16.3 It is submitted that it has considered a normative debt funding of 70% on capitalization of fixed assets during MYT Control period. The rate of interest

considered is prevailing Prime Lending Rate of the State Bank of India as on 1st April 2015.

6.16.4 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, etc. which are claimed along with the interest in Table 6-28 of the Petition.

6.16.5 The Hon'ble Commission is requested to approve the Interest & Finance Charges proposed during the MYT Control period and as provided in Format 10A of the Tariff Filing Formats.

6.17 Interest on Working Capital

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

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

6.17.2 PED submits that in the MYT Regulations, Inventory for two months has been specified to be excluded from the Working Capital Requirement. However, PED submits that the inventory is the part of the assets whereby the working capital is blocked and hence may not be excluded / subtracted from the working capital requirement but need to be added in estimating the whole working capital requirement and therefore same has been added in the Petition formats. The interest on working capital considered is the base rate for SBI on the 01st April, 2015.

Table 6-29: Interest on working capital for the MYT Period

| S. No. | Particulars | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|--------|--|-------------|-------------|-------------|
| 1 | Two months receivable | 219.40 | 234.52 | 250.09 |
| 2 | Power purchase cost for one month | 93.71 | 98.79 | 104.28 |
| 3 | Total Consumer security deposit | 187.41 | 208.72 | 230.04 |
| 4 | Consumer Security Deposit excluding Bank Guarantee/ Fixed Deposit Receipts | 187.41 | 208.72 | 230.04 |
| 5 | Inventory for two months based on Aggregate Revenue Requirement of previous year | 8.92 | 8.92 | 8.92 |
| 6 | total (1-2-4+5) | (52.81) | (64.07) | (75.30) |
| 7 | Interest Rate | 9.30% | 9.30% | 9.30% |
| 8 | Interest on Working Capital | 0.00 | 0.00 | 0.00 |

6.17.3 However, the interest on working capital claimed by PED for the control period is nil.

6.18 Provision for Bad Debts

6.18.1 As per Clause 32 of MYT Regulations, 2014 it is stated that

Bad and doubtful debt shall be limited to 1% of the receivables in the true-up, subject to the condition that amount of bad and doubtful debt is actually written-off in the licensee's books of accounts.

6.18.2 Since the amount is to be claimed at the time-up of true-up limited to 1% of the receivables, the same is not claimed in the MYT Petition and may be claimed at the time of true-up in case such cost has been incurred.

6.19 Interest on Security Deposits

6.19.1 PED submits that MYT Regulations 2014 is silent for claiming of interest on security deposit however, clause 29 (b) of the Regulations under the head "Non-Tariff Income" states that Interest on security deposits, in excess of the rate specified by the Commission shall be considered as Non-Tariff income of the Licensees.

6.19.2 PED feels that there is a contradiction to the clause and the amount to be claimed under the Interest on Security Deposit and therefore, PED has claimed interest on security deposit in line with the Regulation 25 of JERC (for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009. The provision of interest on security deposits is to be made at the bank rate and therefore the Bank rate of 8.50% as on 01st April, 2015 is considered.

Table 6-30: Interest on Security Deposit for MYT Control Period

| S. No. | Particulars | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|--------|--------------------------------------|--------------|--------------|--------------|
| 1 | Opening Security Deposit | 166.10 | 187.41 | 208.72 |
| 2 | Add: Deposits during the year | 21.31 | 21.31 | 21.31 |
| 3 | Less: Deposits refunded | | | |
| 4 | Less: Deposits in the form of BG/FDR | | | |
| 5 | Closing Security Deposit | 187.41 | 208.72 | 230.04 |
| 6 | Bank Rate | 8.50% | 8.50% | 8.50% |
| 7 | Interest on Security Deposit | 15.02 | 16.84 | 18.65 |

6.19.3 PED submits that deposit during the year is considered equivalent to FY 2014-15 amount. The Hon'ble Commission is requested to approve the Interest on Security Deposit as proposed in the MYT Petition.

6.20 Return on Capital Base/ Net Fixed Assets

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

6.20.2 In line with the regulation and the methodology proposed in the MYT Regulations, 2014, PED has calculated the Return on Equity as outlined in the following table for MYT Control Period.

Table 6-31: Return on Equity for Control Period.

Rs. Cr.

| S. No. | Particulars | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|--------|--|------------|--------------|--------------|--------------|
| 1 | Gross Block at the beginning of the year | 697.28 | 787.81 | 943.95 | 1087.81 |
| 2 | Less: Accumulated depreciation | 328.35 | 360.59 | 399.52 | 446.38 |
| 4 | Less: Accumulated consumer contribution | 17.71 | 17.71 | 17.71 | 17.71 |
| 3 | Net Capital Base of the year | 351.21 | 409.51 | 526.72 | 623.72 |
| 5 | Equity - 30% of net capital base | | 122.85 | 158.02 | 187.12 |
| 6 | Return on Equity - 16% | | 18.26 | 22.47 | 27.61 |

6.20.3 PED submits that the RoE claimed during each year of the control period is calculated on an average basis and therefore, the capital base of FY 2015-16. In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Equity as submitted in the petition for the MYT control Period.

6.21 Non-Tariff Income

6.21.1 The amount received by the licensee on account of non-tariff Income shall be deducted from the aggregate revenue requirement in calculating the net revenue requirement of such licensee. The non-tariff Income comprises of metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. However, sales from UI has not been considered in MYT Control Period and therefore income from the same is not highlighted and other component of non-tariff income has been escalated by 5%.

6.21.2 The details of the non-tariff income are provided in Format 20 of the Tariff filing formats and the same is also outlined in the following table:

Table 6-32: Non-Tariff Income for the Control Period

| S. No. | Particulars | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|--------|--------------------------------|-------------|-------------|-------------|
| 1 | Total Non-Tariff Income | 2.80 | 2.93 | 3.08 |

6.21.3 PED requests the Hon'ble commission to approve the non-tariff income as projected for the Control Period.

6.22 Revenue from Sale of Power at Existing Tariff

6.22.1 As per the business plan order dated 04th December, 2015, the retail tariff proposal is to be submitted only for the first year of the control period i.e. FY 2016-17 whereas ARR calculations are to be submitted for the full control period FY 2016-17 to FY 2018-19.

6.22.2 The Revenue from Tariff for first year (FY 2016-17) of the control period based on the existing tariff is outlined below for assessing the Revenue gap / (surplus) for the Control period.

Table 6-33: Revenue from Sale of Power for FY 2016-17 for the MYT Control Period

| S. No. | Particulars | Sales (MUs) | Revenue (Rs.Crs) |
|--------------------|--------------------------------|----------------|------------------|
| LT Category | | | |
| 1 | Domestic | 819.46 | 223.47 |
| 2 | OHOB | 10.38 | 1.15 |
| 3 | Commercial | 207.32 | 109.05 |
| 4 | Agriculture | 57.00 | 1.49 |
| 5 | Public Lighting | 28.17 | 18.51 |
| 6 | LT Industrial | 184.77 | 94.91 |
| 7 | Water Tank | 39.25 | 20.03 |
| 8 | Temporary Supply-LT&HT | | |
| | Total LT | 1346.35 | 468.61 |
| HT Category | | | |
| 9 | HT 1 Industrial / Commercial | 1008.99 | 573.20 |
| 10 | HT 2 - Government & Water Tank | 65.33 | 43.75 |
| 11 | HT 3 - EHT | 376.41 | 209.20 |
| 12 | Total HT | 1450.73 | 826.15 |
| 13 | Total LT and HT | 2797.08 | 1294.76 |
| 17 | Total | 2797.08 | 1294.76 |

6.22.3 PED hereby submits that the revenue as per the revised estimates does not consist of FPPCA charges. In view of above, the Hon'ble Commission is requested to kindly allow Revenue at existing tariff as proposed for Fy 2016-17.

6.23 ARR for the Control Period

6.23.1 Based on the parameters discussed above, the projection of Annual Revenue Requirement (ARR) of PED for the MYT Control Period is as follows:

Table 6-34: ARR for the MYT Control Period

| S. No. | Particulars | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|-----------|---|----------------|----------------|----------------|
| 1 | Cost of power purchase | 1124.57 | 1185.47 | 1251.34 |
| 2 | Employee Costs | 75.12 | 81.75 | 80.32 |
| 3 | Administration and General Expenses | 5.11 | 5.56 | 6.05 |
| 4 | R&M expenses | 20.06 | 22.66 | 27.15 |
| 5 | Depreciation | 32.24 | 38.93 | 46.86 |
| 6 | Interest & Finance Charges | 28.80 | 36.40 | 45.67 |
| 7 | Interest on Working Capital | - | - | - |
| 89 | Interest on Security Deposit | 15.02 | 16.84 | 18.65 |
| 10 | Return on NFA/ Equity | 18.26 | 22.47 | 27.61 |
| 11 | Provision to meet arrears of interest on SD | | | |
| 12 | Total Revenue Requirement | 1319.18 | 1410.07 | 1503.65 |
| 13 | Less: Non- Tariff Income | 2.80 | 2.93 | 3.08 |
| 14 | Net Aggregate Revenue Requirement | 1316.38 | 1407.14 | 1500.56 |

6.23.2 The Annual Revenue Requirement for the control period is based on business plan order dated 04th December, 2015, certain assumptions with respect to current projection and expected strategic plans to be undertaken in future. However, the impacts of any uneven internal or external parameters have not been considered in the current projections. While PED would aggressively pursue the goals envisaged in the Petition, however a change in such assumed parameters may impact the operational performance.

6.24 Revenue Gap for FY 2016-17

6.24.1 The revenue gap as calculated on the basis of the projection for FY 2016-17 is shown in the table below:

Table 6-35: Revenue Gap for FY 2016-17

| S. No. | Particulars | FY 2016-17 |
|--------|--|------------|
| 1 | Aggregate Revenue Requirement | 1316.38 |
| 2 | Revenue from Sale of Power (Excluding Surcharge) | 1294.76 |
| 3 | Revenue Gap/ (Surplus) | 21.62 |

6.24.2 In view of above, the Hon'ble Commission is requested to kindly allow the revenue gap of Rs. 21.62 Crs to be recovered during FY 2016-17.

6.24.3 PED in the subsequent chapters has proposed the required tariff hike to recover the total gap from FY 2013-14 to FY 2016-17 after adjusting the Regulatory Assets with the surcharge collected as directed by the Hon'ble Commission.

CHAPTER 7. ADDITIONAL CLAIMS, REGULATORY ASSETS AND TOTAL REVENUE GAP

7.1 Preamble

- 7.1.1 PED in determining the ARR and retail supply tariff (for FY 2016-17 only) for MYT control period i.e. FY 2016-17 to FY 2018-19 and has been guided by the provisions of the Electricity Act 2003, National Tariff Policy, MYT Regulations 2014 and any other applicable law, enactments, Orders, etc as amended from time to time.
- 7.1.2 PED submits that this section covers the additional claims apart from the revenue gap claimed while computing ARR of the respective years, treatment of regulatory assets as approved by the Hon'ble Commission and the total revenue gap to be recovered in MYT Control period i.e. FY 2016-17 to FY 2018-19.
- 7.1.3 This section overall provides a detailed overview of each and every claim considered in calculation of total revenue gap of PED. Also the revenue gap comprises of the Gap / (Surplus) of four years (i.e. From FY 2013-14 to FY 2016-17) whereas the treatment of regulatory assets have been considered for 3 years (i.e. from FY 2013-14 to FY 2015-16) in line with the previous tariff order and the recovery against the regulatory assets.

7.2 Additional Claim

- 7.2.1 PED submits that in the previous tariff order dated 10th April 2015, apart from the approval of ARR for FY 2015-16, the Hon'ble Commission has also allowed two additional cost components such as Provision on Security deposits as well as RPO Obligations which are claimed on a cumulative basis in the MYT Petition. PED has calculated each component for the respective years and has claimed the same in Revenue Gap as a separate component after adjusting the actual cost already claimed in the respective years. The detailed justifications are as outlined below:

7.2.2 Interest on Security Deposit Provision

- 7.2.2.1 PED submits that the interest on security deposit to the consumers were not paid for previous years and accordingly the Hon'ble Commission has not allowed the same during the true-up of FY 2009-10 to FY 2012-13..
- 7.2.2.2 PED submits that due to delay in abstraction of security deposit data of old LT consumers, the payment of interest on security deposit to such consumers are delayed.

7.2.2.3 In the last tariff order dated 10th April 2015, the Hon'ble Commission has given directions to make payment on the interest on security deposit due to the consumers and accordingly the provision of the amount of pending interest on security deposit due to the consumers was allowed in the ARR of FY 2015-16. This provision was allowed considering that this provisioning would enable PED to discharge its obligations and make all pending payments in this regard. Considering the obligations of making payment to the consumers, the Hon'ble Commission allowed interest on security deposit from FY 2009-10 to FY 2014-15. The details of Interest on security deposit allowed by the Hon'ble Commission are highlighted in the table below:

Table 7-1: Interest on Security Deposit allowed by Hon'ble Commission

| Financial Year | Interest on security deposit (Rs.Crs.) | Remarks |
|----------------|--|--|
| FY 2009-10 | 2.99 | |
| FY 2010-11 | 3.18 | |
| FY 2011-12 | 4.12 | |
| FY 2012-13 | 8.02 | |
| FY 2013-14 | 9.32 | |
| FY 2014-15 | 12.35 | Rs. 4Crs. allowed in FY 2014-15 and remaining Rs. 8.35 in FY 2015-16 |
| Total | 39.98 | Rs. 27.63 (FY 10 to FY14) also provisioned in FY 2015-16 ARR |

7.2.2.4 As can be outlined from the above table, the total security deposit allowed by the Hon'ble Commission is ~Rs. 39.98 Crs from FY 2009-10 to FY 2014-15. In tariff order dated 10th April 2015, in the interest of the stakeholders, the Hon'ble Commission has allowed the provisions of the pending amount to be paid as interest on security deposit for the FY 2009-10 to FY 2013-14 in the ARR of FY 2015-16.

7.2.2.5 PED submits that since the interest on security deposit were not paid in past years i.e. from FY 2009-10 to FY 2014-15, the same has not been included in the computation of ARR. Also, of the total liability of interest on security deposit to be payable to consumers, Rs. 2.02 Crs was paid in FY 2014-15 and Rs. 2.50 Crs is estimated to be paid to the consumers in FY 2015-16. The security deposit paid by individual consumers is partially captured in the computer data. For rest of the cases, the amount paid by consumers are being verified where policy files are missing/ not traceable. However, interest on security deposits are being paid periodically to consumers (LT & HT) for whom the data has already been captured in the computer system. PED request the Hon'ble Commission to allow the provisions of actual security deposit from FY 2009-10 to FY 2015-16 (after excluding amount paid in FY 2014-15 and estimated to be paid in FY 2015-16), to

be included in the Revenue Gap to be recovered in the MYT control period from FY 2016-17 to FY 2018-19.

- 7.2.2.6 PED hereby submits the detailed calculation of provisions of interest on security deposit estimated to be paid to the consumers in MYT Control period as outlined in the following table:

Table 7-2: Interest on Security Deposit allowed by Hon'ble Commission

| S. No. | Particulars | Previous Year (Audit) | | | | | Previous Year (Provisional) | Current Year (Est.) |
|--------|---|-----------------------|-------------|-------------|-------------|-------------|-----------------------------|---------------------|
| | | FY 2009-10 | FY 2010-11 | FY 2011-12 | FY 2012-13 | FY 2013-14 | | |
| 1 | Opening Security Deposit | | | 64.25 | 73.03 | 95.90 | 123.48 | 144.79 |
| 2 | Add: Deposits during the Year | | | 8.78 | 22.87 | 27.58 | 21.31 | 21.31 |
| 3 | Less: Deposits refunded | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | Less: Deposits in form of BG/FDR | | | 0.00 | 0.00 | | | |
| 5 | Closing Security Deposit | | | 73.03 | 95.90 | 123.48 | 144.79 | 166.10 |
| 6 | Bank Rate | | | 0.06 | 0.10 | 0.09 | 0.09 | 0.09 |
| 7 | Interest on Security Deposit * | 2.99 | 3.18 | 4.12 | 8.02 | 9.32 | 12.07 | 13.21 |
| 8 | Cumulative Security Deposit of Past Years | 52.92 | | | | | | |
| 9 | Security Deposit Paid | | | - | - | - | 2.02 | 2.50 |
| 10 | Balance Security Deposit to be Paid during control Period | 48.40 | | | | | | |

- 7.2.2.7 In line with the above submission, PED request the Hon'ble Commission to allow the provision of unpaid security deposit of Rs. 48.40 Crs to be included in the total revenue gap to be recovered in MYT control period i.e. FY 2016-17 to FY 2018-19.

7.3 Treatment of Regulatory Assets and Net Gap:

7.3.1 Regulatory Asset

- 7.3.1.1 In a general term, Regulatory assets include previously-incurred losses that are in the nature of deferred expenditure and that can be recovered from consumers in future if allowed by regulatory authorities.

- 7.3.1.2 As per the Guidance Note on Accounting for Rate Regulated Activities, issued by ICAI, a Regulatory Asset is defined as follows:

“A regulatory asset is an entity’s right to recover fixed or determinable amounts of money towards incurred costs as a result of the actual or expected actions of its regulator under the applicable regulatory framework”

- 7.3.1.3 The National Tariff Policy has also prescribed guidelines for allowing the facility of regulatory assets to be recovered with carrying cost. In cases where regulatory asset is proposed to be adopted, it should be ensured that the return on equity

should not become unreasonably low in any year so that the capability of the licensee to borrow is not adversely affected.

7.3.1.4 It is submitted that a distribution business is a regulated business whereby the business activities creates a gap between operational and accounting situations that would not have arisen in the absence of such regulation. With cost-of-service regulation, there is a direct link between the costs that an entity is expected to incur and its expected revenue as the rates is set to allow the entity to recover its expected costs. However, there could be a significant time lag between incurrence of costs by the entity and their recovery through tariffs. Recovery of certain costs may be provided for by regulation either before or after the costs are incurred. Also, the need for creation of regulatory assets can be due to any or all of the following reasons:

- such as infrequent revision of tariffs,
- variation in the actual and estimated values of major expenditure along with their reasons and treatment;
- gap between the total validated expenditure and total estimated revenue;
- difference between the cost estimated and approved by the appropriate authority;
- effect of prescribed and achieved milestones for loss reduction and sharing of efficiencies and losses;

7.3.2 Creation of Regulatory Assets

7.3.2.1 As specified under Tariff Order dated 12th June 2012, the Hon'ble Commission was of the opinion that creation of regulatory asset is unavoidable in view of the accumulation of revenue gap from the period FY 2009-10 to FY 2012-13 due to load growth, increase in power purchase costs, and increase in other costs and no tariff revision since FY 2009-10. In the said tariff order, the issue of the regulatory assets was dealt in line which is stated as below:

“The gap for FY 2012-13 along with the approved revenue gap of the previous years from FY 2009-10 to FY 2011-12 of Rs. 320.56 Cr is considered as Regulatory Asset to be amortized in the subsequent years. The option to liquidate the whole revenue gap would result in huge tariff increases for each of the consumer categories, which may not be in the best interest of the consumers and the licensee.

.....

In line with the JERC Tariff Regulations, the proposed regulatory asset would be amortised over a period of three years starting from FY 2013-14. “

7.3.2.2 Considering the above order, the Hon'ble Commission has allowed to amortise the regulatory assets as approved over a period of three years starting from FY 2013-14. The Hon'ble Commission increased the tariff for FY 2013-14 and bridged the gap for the year and also approved an additional surcharge of 10% over the revenue from tariff excluding OHOB and Agriculture consumers. The Hon'ble Commission also suggested requesting the government to avail a one time support of Rs. 360.28 Crs. PED would like to submit that the decision on the same is being considered by the Government of Puducherry.

7.3.3 Recovery of Regulatory Assets

7.3.3.1 As specified under Tariff Order dated 12th June 2012, the recovery of the regulatory asset was initiated from FY 2013-14 onwards. PED submits that the calculation of regulatory assets has been revised in Tariff Order dated 10th April 2015 due to the fact that the current Regulatory assets has been worked out based on the actual audited accounts for FY 2011-12 and FY 2012-13.

7.3.3.2 The calculation of the recovery of Regulatory Assets (10% Surcharge) is carried out independently and has not been included in the Revenue of the relevant year in which it was collected. Therefore, the gap of FY 2013-14 and FY 2014-15 is calculated purely on the basis of the revenue charged to the consumers excluding the surcharge calculated and the cost incurred in that corresponding year. The 10% surcharge as collected from consumers in FY 2013-14 and FY 2014-15 are adjusted against the regulatory assets which is the cumulative revenue gap from FY 2009-10 to FY 2012-13.

7.3.3.3 The calculation of the regulatory assets and the recovery of the same from the consumers are outlined in the following table:

Table 7-3: Cumulative Gap calculation over the years

Rs. Crs

| S.No. | Particulars | Proposed by Licensee | Approved by Commission | Revised by Licensee |
|-------|--|----------------------|------------------------|---------------------|
| 1 | FY 2009-10 | 59.54 | 58.02 | 58.02 |
| 2 | FY 2010-11 | 96.19 | 93.94 | 93.94 |
| 3 | FY 2011-12 | 352.18 | 348.96 | 348.96 |
| 4 | FY 2012-13 | 125.57 | 107.54 | 107.54 |
| 5 | Less: Government Support | 360.28 | 360.28 | 360.28 |
| 6 | Regulatory Asset | 273.20 | 248.18 | 248.18 |
| 7 | Recovery of regulatory assets from consumers | | | |
| 8 | FY 2013-14 | 101.76 | 104.36 | 101.46 |
| 9 | FY 2014-15 | 110.50 | 110.50 | 103.94 |
| 10 | Total regulatory assets recovered | 212.26 | 214.86 | 205.40 |
| 11 | Expected recovery in FY 2015-16 | 60.94 | 33.32 | 30.11 |
| 12 | Total expected regulatory assets recovered at the end of FY 2015-16 | 273.20 | 248.18 | 235.51 |
| 13 | Balance regulatory asset at the end of FY 2015-16 | | | 12.67 |

7.3.4 As can be analysed from the above table, against actual regulatory assets of Rs. 248.18 Crs (based on the audited accounts), the actual recovery in FY 2013-14 and in FY 2014-15 is Rs. 205.40 Crs and the expected recovery in FY 2015-16 is Rs. 30.11 Cr. Therefore, at the end of FY 2015-16 Rs. 12.67 Crs is pending recovery based on the surcharge collected. PED proposes to recover the balance regulatory assets during the control period.

7.3.5 PED requests the Hon`ble Commission to approve the recovery of unrecovered regulatory asset of Rs. 12.67 Crs during the control period.

7.4 Revenue Gap for FY 2016-17

7.4.1 PED submits that the said current petition covers 6 years which includes True-up for FY 2013-14, Provisional True-up of FY 2014-15, APR of FY 2015-16 and MYT Control period from FY 2016-17 to FY 2018-19. However, for the gap from FY 2011-12 to FY 2012-13 (including Past Gaps of FY 2009-10 to FY 2010-11) is adjusted against the recovery of the Regulatory assets and therefore the Revenue Gap is calculated along with the additional adjustment from FY 2013-14 to FY 2016-17 which is proposed to be recovered in the FY 2016-17 (i.e. first year of the MYT Control period). PED submits that the increase in tariff shall be proposed considering the cumulative gap over the years. The calculation of revenue Gap is shown below:

Table 7-4: Calculation of Revenue Gap for FY 2013-14 to FY 2016-17

Rs. Crs

| S.No. | Particulars | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 |
|-----------|---|--------------|--------------|---------------|---------------|
| 1 | Net ARR | 1,108.47 | 1,091.80 | 1,206.80 | 1,316.38 |
| 2 | Revenue at existing tariff excluding surcharge but including FPPCA | 1,045.82 | 1,077.06 | 1,164.07 | 1,294.76 |
| 3 | Revenue gap for the year | 62.64 | 14.74 | 42.73 | 21.62 |
| 4 | Opening balance of gap | | 62.64 | 77.39 | 181.19 |
| 5 | Addition during the year | | | | |
| 6 | Gap during the corresponding year | | 14.74 | 42.73 | 21.62 |
| 7 | Additional past recoveries to be claimed in the MYT Control Period | | | | |
| 8 | Under-recovered regulatory asset | | | 12.67 | |
| 9 | Accumulated interest on security deposit to be paid during the control period | | | 48.40 | |
| 10 | Total cumulative gap for the years | 62.64 | 77.39 | 181.19 | 202.81 |

7.4.2 PED requests the Hon`ble Commission to approve the revenue gap of Rs. 202.81 Crs till FY 2016-17.

7.4.3 The petitioner requests the Hon`ble Commission to allow the revenue gap to be recovered by way of creation of regulatory assets instead of recovering through tariff hike in next year. The reasons for the same have been discussed in Chapter 8.

CHAPTER 8. PROPOSAL FOR REVISION IN TARIFF FOR RETAIL SALE OF ELECTRICITY DURING MYT CONTROL PERIOD

8.1 Preamble

8.1.1 This section elucidates the proposed revision in the retail tariff and proposed amendments in the retail tariff schedule to be applicable for MYT Control Period i.e. FY 2015-16 to FY 2017-18. PED prays the Hon'ble Commission to approve the revision of retail tariff for MYT Control Period i.e. FY 2015-16 to FY 2017-18 as proposed for different categories of consumers, applicable from April 1 '2015.

8.2 Tariff Design Principles

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

8.3 Philosophy of Tariff Design

8.3.1 During November 2015, Puducherry and Karaikal region had faced unprecedented heavy rainfall with floods in most of the places. The neighbouring districts (Tamilnadu) of Puducherry such as Cuddalore, Kanchipuram and Chennai had also faced severe heavy rainfalls and floods never seen in record of 100 years. These natural calamities have caused more strain on the small and medium scale industries and most of the industries face production issues due to heavy flooding and damage to machineries. The industrial growth in Puducherry and Kariakal region is also inter-related with industrial growth in neighbouring districts of Taminadu.

8.3.2 Besides the commercial and domestic sectors are also facing economic hardships due to floods and hence raising tariff at the level of ~16% may become unsustainable and over burden all categories of consumers. Therefore, PED humbly requests the Hon'ble Commission to approve the revenue gap as regulatory assets to be recovered during the MYT Control Period.

8.3.3 PED submits that considering the total proposed Revenue Gap of Rs. 202.81 Crs till FY 2016-17, the Hon'ble Commission may kindly create a regulatory asset to recover the revenue gap during the three years of the MYT Control period i.e. FY 2016-17 to FY 2018-19. Therefore, the petitioner is not proposing any tariff hike in FY 2016-17

and is requesting the Hon'ble Commission to allow recovery of the revenue gap via additional surcharge of 5.22% over three years i.e. FY 2016-17 to FY 2018-19.

Table 8-1: Additional surcharge proposed over the Control Period

| S.No. | Particulars | Amount (Rs.Crs.) |
|-------|---|------------------|
| 1 | Gap in FY 2013-14 | 62.64 |
| 2 | Gap in FY 2014-15 | 14.74 |
| 3 | Gap in FY 2015-16 | 42.73 |
| 4 | Gap in FY 2016-17 | 21.62 |
| 5 | Total Revenue Gap | 141.74 |
| 6 | Past recoveries | |
| 7 | Balance regulatory asset | 12.67 |
| 8 | Accumulated interest on security deposit to be paid during the Control Period | 48.40 |
| 9 | Cummulative revenue gap | 202.81 |
| 10 | Gap to be recovered every year during the Control Period | 67.60 |
| 11 | Revenue from existing tariff in FY 2016-17 | 1294.76 |
| 12 | Additional Surcharge proposed to be levied on the Consumers | 5.22% |

8.3.4 The tariff proposed for FY 2016-17 is mentioned below.

Table 8-2: Summary of Existing and Proposed Tariff Rates for MYT Control Period (FY 2016-17 to FY 2018-19)

| Sr. No. | Category of Consumer | Existing Tariff for FY 2015-16 | | Proposed Tariff for FY 2016-17 | |
|---------|--|---|-----------------------|---|------------------------|
| | | Fixed Charge (Rs/kW; Rs/kVA; Rs/HP; Rs/Month/ Connection) | Energy Charges RS/kWh | Fixed Charge (Rs/kW; Rs/kVA; Rs/HP; Rs/Month/ Connection) | Energy Charge (Rs/kWh) |
| 1(a) | Domestic & Cottage | | | | |
| | 0 - 100 | 32.00 | 1.10 | 32.00 | 1.10 |
| | 101 - 200 | 32.00 | 1.65 | 32.00 | 1.65 |
| | 201 - 300 | 32.00 | 3.25 | 32.00 | 3.25 |
| | >300 | 32.00 | 4.25 | 32.00 | 4.25 |
| 1 (b) | OHOB | 27.00 | | 27.00 | |
| 2 | Commercial | | | | |
| | 0 - 100 | 75.00 | 4.25 | 75.00 | 4.25 |
| | 101 - 250 | 75.00 | 4.85 | 75.00 | 4.85 |
| | > 250 | 75.00 | 5.25 | 75.00 | 5.25 |
| 3 | Agriculture | | | | |
| | Small farmers | 9.00 | - | 9.00 | - |
| | Other farmers | 27.00 | - | 27.00 | - |
| 4 | Public lighting | 54.00 | 5.40 | 54.00 | 5.40 |
| 5 | LT Industrial & Water Tanks | | | | |
| | All Consumption | 86.00 | 5.10 | 86.00 | 5.10 |
| 6 | Temporary supply | | | | |
| 6 (a) | Light Load | 200.00 | 9.45 | 200.00 | 9.45 |
| 6 (b) | Special Illumination | 500.00 | 9.45 | 500.00 | 9.45 |
| 6 (c) | Load exceeding 97kW/ 130HP | 500.00 | 9.45 | 500.00 | 9.45 |
| 7 | Hoardings/ Signboards | 100.00 | 7.00 | 100.00 | 7.00 |
| | | | | | |
| 8 | HT - I Industrial & Commercial | | | | |
| 8 (a) | I(a) upto CD 5000 kVA (Industrial/IT/ITES) | 235.00 | 4.75 | 235.00 | 4.75 |
| 8 (b) | I(b) upto CD 5000 kVA (Commercial) | 235.00 | 4.75 | 235.00 | 4.75 |
| 9 | HT - II Government & water tank | 235.00 | 5.50 | 235.00 | 5.50 |
| 10 | HT - III EHT (above 5000 kVA) | 220.00 | 4.75 | 220.00 | 4.75 |

CHAPTER 9. SEGREGATION OF WHEELING AND RETAIL SUPPLY BUSINESS

9.1 Allocation Matrix

9.1.1 The Hon'ble Commission has issued JERC (Multi Year Distribution Tariff) Regulations, 2014 which is effective from 1st April 2015 onwards and the control period is for three years i.e. FY 2016-17 to FY 2018-19.

9.1.2 As per clause 33 of MYT Regulations, it is stated that the distribution licensee need to maintain separate books of accounts for wheeling and retail supply business. It is submitted that the Hon'ble Commission is aware that the subject being naive in nature, the distribution licensee may not have the accounts segregated based on the wheeling and retail supply business. Therefore it is clearly stated in the regulation that in the absence of such accounts, the ratio of the segregation may be decided by the Hon'ble Commission based on the data obtained from the distribution licensee.

9.1.3 However, in the similar clause, the Hon'ble Commission has clearly stated that the following broad principles shall be followed for allocation of costs towards wheeling business and supply business, out of the total annual revenue requirements determined:

- Power purchase cost shall be allocated to the supply business;
- Operation and maintenance expenses shall be segregated between wheeling and supply businesses in such manner as may be determined by the Commission;
- Majority of the capital expenditure related expenses, viz., depreciation, interest and return on equity, shall be included under the wheeling business

9.1.4 As the Hon'ble Commission has rightly assessed, the present accounts of licensee is at a consolidated level and the licensee does not have segregated accounts for each of the businesses. It is submitted that PED at present is using old accounts system & therefore retrieving old information would be very a daunting task. A detailed analysis is required to arrive at the expenses based on the nature of the business. Further, certain segments of business cannot be segregated in to two business categories e.g. sub-station which caters to both wires and supply business.

9.1.5 Since PED does not keep segregated accounts; it has to rely on certain assumptions for segregation of total expenses into wires and supply business. However, in line with the Regulation, the licensee is also endeavoured to analyse the expenses and incomes attributable to each business and has followed the following principles of

allocating Wheeling and Supply cost:

9.1.6 **Distribution Wheeling/Wires** function consists of transporting of electricity from transmission lines (typically transmission ends at 33kV/66kV) to consumers. Major activities involved are setting up of network consisting of the poles, wires, transformers etc. to take the electricity physically to the consumer.

9.1.7 **Retail Supply** function also known as merchant function is sale of electricity to the end consumers. Major activities involved are procurement of electricity from wholesaler or bulk supplier, pricing of electricity, sale of electricity including connection of consumer to the network, metering of energy used by consumers, billing for electricity supplied, collection of bills for energy use and disconnection of service on non-payment of bills.

9.1.8 The proposed allocation is based on the basis that the distribution network up to consumer meter is part of the wires business and the infrastructure beyond meter is part of the Retail Supply business. The proposed approach for allocation of expenditure between Wires and Retail Supply is discussed below:

1. Power Purchase Expenses including transmission charges

PED has contracted sufficient power for 24X7 supply to the consumers in the UT of Puducherry. On the basis of its power procurement plan, it is further expected that the consumers in the UT would be availing 24X7 supply. PED also agrees that procurement of electricity from wholesaler or bulk supplier for sale to end consumers is the main activity of retail supply business and therefore 100% of the cost of the power is allocated to the Supply business.

Further, entire transmission charges paid to Transmission Licensee is also allocated to the retail supply business.

2. Allocation of Capital Cost

The major components that form retail supply asset are meters and billing equipment's and similarly, majority of the plant and machinery, lines and cables form distribution assets. Other fixed assets like buildings, office equipment's, furniture and fixtures, vehicles etc. may be apportioned considering predominant usage concept.

Considering the general principles of segregation of capital cost (i.e. Interest on Loan, RoE, Depreciation) into wires and supply business and considering the fact that the distribution business of PED is dispersed in four regions having more dependence on the wire business, PED at present has considered a ratio of 90%

to Wheeling Business and 10% to Supply Business.

3. Employee Expenses

To segregate the employee cost PED has used the basis of employee requirement to undertake the Retail Supply business. PED has done an evaluation on the number of employees that could be allocated to the Wires and Retail Supply business and the efforts undertaken to carry out such work.

The responsibility towards maintenance of a highly efficient distribution system and the accountability towards discharge of the duties as a service provider have to be shared by the engineers and employees of the PED. The Electricity Department has a technical work force of over 2192 employees of different ranks who perform multifaceted technical functions and duties, viz., maintaining power supply, metering, billing, revenue collections, customer services etc. The total sanctioned employee strength of the department is 2804 of which 2192 belong to technical cadre and 612 belong to Non-Technical (ministerial) cadre which ultimately results into 78% technical cadre and 22% non-technical (ministerial) Cadre.

Majority of the non-technical employees works for wires business involving functions such as revenue, stores, administration and establishment. Further, some of the technical employees also work for supply business. PED has assumed the allocation of number of employees to wires and supply business as 70% and 30% respectively. PED has assumed the same ratio for allocation of employee expenses to wires and supply business.

4. Administration & General Expenses

A&G expenses related to power purchase, metering, billing and collection, financing expenses on loan related to retail supply business can be allocated to retail supply business. Office expenses like telephone, stationery, electricity, lease rent etc. can be apportioned between Wires and Retail Supply business on the basis of predominant usage concept. The following principle has been adopted for calculation of ratio of wheeling and supply business for each and every cost component of A&G business:

- Rent Rates & Taxes in the ratio of allocation of capital cost of 90% and 10% to wheeling and supply business;
- Office expenses and Professional Charges includes the appointment of internal auditor for maintaining the accounts and fixed assets register as well as the legal / regulatory fees and payment to consultant for filing of ARR petition. Therefore it includes the mixed component of Capital Cost and supply business and therefore it is considered lower than capital cost

allocation ratio but higher than the employee expenses i.e. 80: 20 ratio for wheeling and supply business;

- Advertisement & Publicity expenses and incentives to consumers has been allocated 100% to supply business;
- Other A&G charges and material related expenses are allocated equally to wheeling and supply business;

Based on the above itemized allocation principle for each cost component of A&G expenses, the overall ratio comes to around 60:40. But as the Commission in its last tariff order had considered 50:50 allocation based on “ STAFF PAPER ON OPERATIONALISATION OF OPEN ACCESS (OA) IN THE STATE OF GOA AND THE UT'S in September 2012” for Wheeling and Supply business, the same has been considered for allocation purpose.

5. Repair & Maintenance Expenses

As discussed earlier, the distribution network up to consumer meter is part of the wires business and the infrastructure beyond meter is part of the Retail Supply business. Therefore, majority of R&M is required for the portion up to consumer meter and infrastructure beyond consumer meter or other supply related equipment's don't require that much R&M. Considering this fact, R&M expenses are allocated as 90% to Wires Business and 10% to Supply Business.

6. Interest on Working Capital and interest on Security Deposit

Working capital is mainly required to meet the liabilities relating to fuel / power purchase however certain part of working capital is also required to meet the payments of the suppliers for capital works. Considering this fact, interest expenses on working capital is considered in the ratio of 22:78 of wheeling and supply business respectively which is in line with the approach adopted by the Hon'ble Commission in past orders. However, interest on security deposit being related totally to retail supply consumers, 100% of such cost is allocated to Supply Business.

7. Provision for Bad Debts

Bad debts are inseparable incidents of the retail supply business of electricity distribution. Provision for Bad Debts is associated with the business risk mainly related to supply business and therefore 100% is allocated to Supply Business.

8. Non-Tariff Income

Since almost all the non-tariff income comes from supply related activities, the entire non-tariff income is allocated to Supply Business.

9.1.9 Considering the assumptions discussed above, PED has worked out the ratio to segregate the expenses under Retail Supply and Wires Business. The same ratios have been used to segregate its ARR for the MYT control period i.e. FY 2016-17 to FY 2018-19.

Table 9-1: Assumptions for segregation of Retail Supply and Wires Business Expenses

| S. No. | Item of expense | Wire Business | Supply Business | Wire Business | Supply Business | Total | Wire Business | Supply Business | Total | Wire Business | Supply Business | Total |
|--------|--|---------------|-----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|
| | | % | % | FY 2016-17 | | | FY 2017-18 | | | FY 2018-19 | | |
| 1 | Cost of fuel | | | | | | | | | | | |
| 2 | Cost of power purchase | 0% | 100% | 0.00 | 1130.06 | 1130.06 | 0.00 | 1190.93 | 1190.93 | 0.00 | 1255.55 | 1255.55 |
| 3 | Employee costs | 70% | 30% | 52.59 | 22.54 | 75.12 | 57.23 | 24.53 | 81.75 | 56.22 | 24.10 | 80.32 |
| 4 | R&M expenses | 90% | 10% | 18.05 | 2.01 | 20.06 | 20.39 | 2.27 | 22.66 | 24.44 | 2.72 | 27.15 |
| 5 | Administration and General expenses | 50% | 50% | 2.55 | 2.55 | 5.11 | 2.78 | 2.78 | 5.56 | 3.02 | 3.02 | 6.05 |
| 6 | Depreciation | 90% | 10% | 29.01 | 3.22 | 32.24 | 35.03 | 3.89 | 38.93 | 42.18 | 4.69 | 46.86 |
| 7 | Interest & Financial charges | 90% | 10% | 25.92 | 2.88 | 28.80 | 32.76 | 3.64 | 36.40 | 41.10 | 4.57 | 45.67 |
| 8 | Interest on Working Capital | 22% | 78% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | Return on NFA/Equity | 90% | 10% | 16.43 | 1.83 | 18.26 | 20.22 | 2.25 | 22.47 | 24.85 | 2.76 | 27.61 |
| 10 | Provision for Bad Debt | 0% | 100% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | Interest on Consumer Security Deposit | 0% | 100% | 0.00 | 15.02 | 15.02 | 0.00 | 16.84 | 16.84 | 0.00 | 18.65 | 18.65 |
| 12 | Total Revenue Requirement | | | 144.56 | 1180.11 | 1324.67 | 168.41 | 1247.11 | 1415.52 | 191.81 | 1316.05 | 1507.86 |
| 13 | Less: Non Tariff Income | 0% | 100% | 0.00 | 2.80 | 2.80 | 0.00 | 2.93 | 2.93 | 0.00 | 2.93 | 2.93 |
| 14 | Net Revenue Requirement (12-13) | | | 144.56 | 1177.31 | 1321.87 | 168.41 | 1244.18 | 1412.59 | 191.81 | 1313.11 | 1504.92 |
| 17 | Energy sales (MU) * | | | 2797.08 | 2797.08 | 2797.08 | 2980.60 | 2980.60 | 2980.60 | 3177.04 | 3177.04 | 3177.04 |
| 18 | Average Cost of Supply (Rs/kWh) | | | 0.52 | 4.21 | 4.73 | 0.57 | 4.17 | 4.74 | 0.60 | 4.13 | 4.74 |

9.1.10 PED submits that the percentage allocation for segregation of Retail Supply and Wires Business Expenses is purely on the basis of assumptions and cannot be treated as basis for any accounting purposes. PED categorically submits that this segregation is only for the purpose of the determination of aggregate revenue requirement for the purpose of MYT Petition only.

CHAPTER 10. DETERMINATION OF OPEN ACCESS CHARGES

10.1 Determination of Open Access Charges

10.1.1 As per the provisions of Electricity Act 2003 the distribution utilities are mandated with Universal Service Obligation to consumers. Nationwide, the present tariff structure has cross subsidization mechanism whereby the tariff for some category of consumers are lower than cost of supply to them.

10.1.2 Typical Open Access consumers are required to bear transmission charges, transmission losses, wheeling charges, wheeling losses, reactive charges, cross subsidy surcharge, additional surcharge, standby charges etc as may be applicable depending upon the voltage level at which open access power is availed and the charges as may be approved by Hon'ble Commission from time to time. In the past Hon'ble Commission has determined the open access charges including cross subsidy surcharge payable by a consumer availing open access to the Distribution System as provided in Open Access Regulations.

10.1.3 Section 42 (2) of the Electricity Act 2003 provides following provisions wherein the powers have been given to State Commissions for specifying cross subsidy surcharge. The relevant is reproduced as under:

“The State Commission shall introduce open access in such phases and subject to such conditions, (including the cross subsidies, and other operational constraints) as may be specified within one year of the appointed date by it and in specifying the extent of open access in successive phases and in determining the charges for wheeling, it shall have due regard to all relevant factors including such cross subsidies, and other operational constraints:

Provided that such open access shall be allowed on payment of a surcharge in addition to the charges for wheeling as may be determined by the State Commission:

Provided further that such surcharge shall be utilised to meet the requirements of current level of cross subsidy within the area of supply of the distribution licensee:

Provided also that such surcharge and cross subsidies shall be progressively reduced in the manner as may be specified by the State Commission:

Provided also that such surcharge shall not be leviable in case open access is provided to a person who has established a captive generating plant for carrying the electricity to the destination of his own use:"

"to provide non-discriminatory open access to its transmission system for use by-
(i) any licensee or generating company on payment of the transmission charges ;
or

(ii) any consumer as and when such open access is provided by the State Commission under sub-section (2) of section 42, on payment of the transmission charges and a surcharge thereon, as may be specified by the State Commission:

Provided that such surcharge shall be utilised for the purpose of meeting the requirement of current level cross-subsidy:

Provided further that such surcharge and cross subsidies shall be progressively reduced in the manner as may be specified by the State Commission:

Provided also that the manner of payment and utilisation of the surcharge shall be specified by the State Commission:

10.1.4 Section 86 deals with the functions of State Commission and its sub-section (1) (a) reads as follows:

"86. (1) The State Commission shall discharge the following functions, namely:

(a) determine the tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail, as the case may be, within the State:

Provided that where open access has been permitted to a category of consumers under section 42, the State Commission shall determine only the wheeling charges and surcharge thereon, if any, for the said category of consumers;"

10.1.5 As mandated in the Electricity Act 2003 and JERC Regulations and various Orders of Hon'ble Commission, it is necessary that both cross subsidy surcharge and additional surcharge are imposed on the open access consumers. As regards to the calculation of cross subsidy surcharge it is to mention that cross subsidy surcharge shall be determined as per the formula specified in National Tariff Policy which has been followed by Hon'ble Commission from time to time. Therefore, PED requests the Hon'ble Commission to determine the Open Access charges wheeling charges and cross subsidy charges every time while determining the tariff.

10.2 Allocation of Wheeling Cost

10.2.1 PED submits that the allocation of network and supply cost has been considered in line with the allocation principles adopted in Chapter 9 of this petition. PED submits that it does not maintain audited accounts for voltage wise assets. However, based on the engineering study and certain assumptions, PED has arrived at the segregation of cost. PED would like to emphasize that this statement is only based on engineering estimate as it does not have accurate audited data.

10.3 Voltage wise Wheeling Charges

10.3.1 PED submits that the apportionment of wheeling charges has to account for losses and therefore in the absence of the voltage wise details, PED has considered the bifurcation of wheeling cost based on the sales and losses at each voltage level. The voltage wise loss levels are taken as approved by the Commission in the Tariff Order of FY 2014-15. The table depicting the same is shown below:

Table 10-1: Voltage wise Loss

| Voltage Level | Loss (%) |
|----------------------|-----------------|
| EHT | 1% |
| HT - 33/22/11kV | 5% |
| LT | 12.80% |
| Total | 12% |

10.3.2 The wheeling charges calculation is provided in the table below:

Table 10-2: Wheeling charges for MYT Control Period

| S.No. | Particulars | UoM | | FY 2016-17 | FY 2017-18 | FY 2018-19 |
|-------|-------------------------------------|----------------|-----------------|-------------|-------------|-------------|
| 1 | Wheeling Cost | Rs.Crs | a | 144.56 | 168.41 | 191.81 |
| 2 | Wheeling Cost at EHT | Rs.Crs | b=ax49% | 70.83 | 82.52 | 93.99 |
| 3 | Wheeling Cost at HT | Rs.Crs | c=ax9% | 13.01 | 15.16 | 17.26 |
| 4 | Wheeling Cost at LT | Rs.Crs | d=ax42% | 60.71 | 70.73 | 80.56 |
| 5 | Energy Input at Discom Periphery | MU | e | 3115.22 | 3313.23 | 3524.64 |
| 6 | Wheeling Charge at EHT Level | Rs./kWh | f=b/ex10 | 0.23 | 0.25 | 0.27 |
| 7 | EHT Losses | % | g | 1% | 1% | 1% |
| 8 | EHT Losses | MU | h | 31.15 | 33.13 | 35.25 |
| 9 | Sales at EHT Level | MU | i | 376.41 | 398.99 | 422.93 |
| 10 | Energy Input at HT | MU | j=e-h-i | 2707.66 | 2881.10 | 3066.47 |
| 11 | Wheeling Charge at HT Level | Rs./kWh | k=c/jx10 | 0.05 | 0.05 | 0.06 |
| 12 | HT Losses | % | l | 5% | 5% | 5% |
| 13 | HT Losses | MU | m | 135.38 | 144.06 | 153.32 |
| 14 | Sales at HT Level | MU | n | 1,074.32 | 1,137.71 | 1204.84 |
| 15 | Energy Input at LT | MU | o=j-m-n | 1497.96 | 1599.34 | 1708.30 |
| 16 | Wheeling Charge at LT Level | Rs./kWh | p=d/ox10 | 0.41 | 0.44 | 0.47 |
| 17 | Sales at LT Level | MU | q | 1,306.24 | 1,403.79 | 1509.16 |
| 18 | LT Losses | MU | r=o-q | 191.72 | 195.55 | 199.14 |
| 19 | LT Losses | % | % | 12.8% | 12.2% | 11.7% |
| 20 | Total Losses | MU | s=r+m+h | 358.25 | 372.74 | 387.71 |
| | | % | | 11.50% | 11.25% | 11.00% |

10.3.3 The apportionment of the wheeling cost has been considered in the ratio of 49:9:42 between EHT, HT and LT respectively (as considered in the last tariff order dated April 10' 2014.

10.3.4 The Hon'ble Commission may consider the submissions as provided in above paragraphs & approve the proposed wheeling charges.

CHAPTER 11. CROSS SUBSIDY SURCHARGE AND ALLOCATION OF COST TO SERVE

11.1 Background for Cross Subsidy Surcharge

11.1.1 Section 2 (47) of the said Electricity Act defines “Open Access”, while Section 42 of the said Act inter – alia mandates the Distribution Licensee to provide Open Access to eligible consumers, subject to payment of Cross Subsidy Surcharge, Additional Surcharge & other applicable charges.

11.1.2 Section 86 (1) (a) of the said Act inter – alia mandates the Hon’ble Commission to determine Cross Subsidy Surcharge, Additional Surcharge & other applicable charges payable by the consumers opting for open access.

11.1.3 National Electricity Policy as stipulated by the Central Government provides that – Under sub – section (2) of Section 42 of the Act, a surcharge is to be levied by the respective State Commissions on consumers switching to alternate supplies under open access. This is to compensate the host distribution licensee serving such consumers who are permitted Open Access under Section 42 (2), for loss of cross subsidy element built into the tariff of such consumers. An additional surcharge may also be levied under sub – section (4) of section 42 of the said Act for meeting the fixed cost of the distribution licensee arising out of obligation to supply in cases where consumers are allowed open access.

11.1.4 National Tariff Policy further provides the “Surcharge Formula” as follows:

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

Where,

S is surcharge

T is tariff payable by relevant category of consumers

C is weighted average cost of power purchase of top 5% at the margin excluding liquid fuel based generation and renewable power

D is wheeling charges

L is the system Losses for the applicable voltage level.

11.2 Computation of Cross Subsidy Surcharge for MYT Control Period

11.2.1 PED submits that the transmission and distribution business has not yet been segregated and it continues to function as an integrated utility. Since the expenses of the utility are consolidated and has therefore considered “NIL” transmission charges for the open access consumers in the UT.

11.2.2 Computation of “C”

11.2.3 Computation of “C” is based on the projected power purchase quantum and price after merit order principle for MYT control period as submitted in the Form 4 of the Regulatory Formats. Computation of “C” can be taken as the price of power from the allocated sources to be the weighted average power purchase cost of top 5% at the margin. Therefore, the “C” computed for PED is shown in the following table:

Table 11-1: Calculation of ‘C’ based on ARR of MYT Control Period

| S.No. | Particulars | Station | Energy Procured (MU) | Avg. Rate (Rs./kWh) | Total Power Purchase Cost (Rs.Cr.) |
|-------|-------------------------|------------------|----------------------|---------------------|------------------------------------|
| | C= | | | | |
| 1 | FY 2016-17 | | | | |
| | 5% of power procurement | | 163.04 | 3.04 | 49.56 |
| | | RSTPS Stage I&II | 163.04 | 3.04 | 49.56 |

11.2.4 Computation of CSS

11.2.4.1 PED submits that the apportionment of wheeling charges has to account for losses and therefore in the absence of the voltage wise details, PED has considered the bifurcation of wheeling cost based on the sales and losses at each voltage level. The Voltage wise loss levels “L” are taken as approved by the Commission in the Tariff Order of FY 2014-15.

11.2.4.2 The projected wheeling charges “D” as shown in the **Chapter 10** at the respective voltage level are used for calculation of Cross Subsidy Surcharge.

11.2.4.3 The Tariff (ABR) “T” of HT category consumers is considered based on the proposed tariff by PED to recover the Gap. Since the Tariff payable by the consumers is inclusive of the Surcharge to be recovered against the Regulatory Assets, the proposed surcharge is also included while calculating the Tariff of the HT consumers.

11.2.4.4 The category wise CSS applicable is arrived on consideration of the components ABR, C, L & D from the above referred respective sections. The CSS is thus provided below:-

Table 11-2: Calculation of Cross Subsidy Surcharge for FY 2016-17

| S.No. | Particulars | Sales | Revenue from proposed tariff | Average tariff T | Cost of power C | Wheeling charges D | Loss L | Cross subsidy surcharge CSS |
|-------|----------------------------|----------|------------------------------|------------------|-----------------|--------------------|--------|-----------------------------|
| | | MUs | Rs.Crs | Rs./kWh | Rs./kWh | Rs./kWh | % | Rs./kWh |
| 1 | HT Industrial & Commercial | 1,008.99 | 573.20 | 5.68 | 3.04 | 0.05 | 5.00% | 2.44 |
| 2 | HT II Govt. & Water Tank | 65.33 | 43.75 | 6.70 | 3.04 | 0.05 | 5.00% | 3.46 |
| 3 | HT III EHT | 376.41 | 209.20 | 5.56 | 3.04 | 0.23 | 1.00% | 2.26 |

11.2.5 PED requests the Hon'ble Commission to approve the Cross Subsidy Surcharge & related Open Access Charges for MYT control period i.e. FY 2015-16 to FY 2017-18 as proposed.

11.3 Additional Surcharge

11.3.1 PED submits that it will approach Hon'ble Commission separately on case to case basis seeking approval for 'Additional Surcharge'.

11.4 Allocation of Cost to Serve

11.4.1 It is submitted that Clause 36 of MYT Regulations, 2014 specifies that the distribution licensee shall compute the consumer category-wise cost of supply as per the methodology elaborated in the Regulations.

11.4.2 PED submits that for computing the consumer category wise Cost of supply, it is necessary to carry out the detailed load study considering the seasonal fluctuations as well as the system load factor. There is also a need to carry out the detail Demand analysis (incl. analysis on system loading, hourly load curves, peak maximum Demand (PMD), Simultaneous Maximum Demand (SMD), coincidental and non-coincidental peaks) and transmission and distribution loss assessment based on historical and real time data.

11.4.3 Such detailed study is usually carried out on a sample feeder basis selected in a scientific manner whereby selection of such feeders and consumer samples for load studies and loss studies should be representative of the consumer groups/network types etc.

11.4.4 It is also submitted that as per MYT Regulations, 2014, the Hon'ble Commission have also stated that while allocating the demand related cost, the basis of average coincident peak demand of the tariff categories (average of past 12 months) is required to be undertaken. The clause as per Regulations is stated as below:

(i) Allocation of Demand Costs: Demand costs of all three functions shall be allocated among consumer categories on the basis of average coincident peak demand of the tariff categories (average of past 12 months). To facilitate determination of average coincident peak demand for the various tariff categories, load research shall be made an integral part of the operations of the DISCOMs and systematic load research exercises shall be initiated.

11.4.5 PED humbly submits that considering the above factors, the computation of

consumer category-wise cost of supply, a detailed analysis is required which is a time consuming process. PED is yet to carry out the load research exercise which also needs to undertake the seasonal fluctuation and considering such short time, it is difficult to submit the consumer category-wise cost of supply. Therefore, PED requests the Hon'ble Commission to exempt PED from submission of consumer category-wise cost of supply considering the above submission.

CHAPTER 12. COMPLIANCE OF THE DIRECTIVES OF HON'BLE COMMISSION

12.1 Preamble

12.1.1 This section lists the directives issued by the Hon'ble Commission in the previous tariff order and the status of their compliances.

12.2 Status of Compliance

Table 12-1: Status of Compliance of directives

| S.No. | Directives | Commission Observation made in the Tariff Order FY 2015-16 | Compliance by the Electricity Department Puducherry |
|-------|---|---|--|
| 1. | Annual Statement of Accounts | The filing of Final True up for FY 2011-12 and FY 2012-13 is noted. The audited accounts for FY 2013-14 shall be expedited and submitted along with True up Petition for FY 2013-14 by June 2015. | The Accounts for the FY 2013-14 has been audited and for the FY 2014-15 it is programmed to take up the audit during the Jan-Feb of 2016. The true-up petition for FY 2013-14 has been filed with this petition with audited accounts and for FY 2014-15 provisional true-up is being filed with this petition for kind consideration of the Commission as audited accounts for FY 2014-15 would be ready by Feb-2016 . |
| 2. | Preparation of Asset and Depreciation Register | Compliance is noted. The Fixed Asset Registrar for FY 2013-14 may be submitted along with True up Petition for FY 2013-14. | Concurrently the asset and depreciation registers for the audited years are being prepared and available with PED. For FY 2013-14 asset and depreciation registers are available with PED. |

| S.No. | Directives | Commission Observation made in the Tariff Order FY 2015-16 | Compliance by the Electricity Department Puducherry |
|-------|--|--|--|
| 3. | Accounting of security deposits etc. under appropriate head of accounts | <p>The compliance on payment of interest on security deposits is noted. The sanction of the Government for payment of interest on security deposit for LT consumers, Yanam region for FY 2012-13 and FY 2013-14 may be obtained early and payment released. The sanction for payment of security deposit for FY 2014-15 may also be obtained early and payment released to the consumers. It is seen that though the Commission has approved and included a provision of Rs. 39.98 Crore in the ARR covering the payment for FY 2009-10 to FY 2014-15, the PED has not taken serious steps for payment/credit to the consumers concerned. A paltry amount of only Rs. 4 Crore is provided in FY 2014-15 (RE) by the PED. The Commission reiterates the earlier directive for early payment/credit to consumers to liquidate the entire arrears by FY 2015-16 itself.</p> | <p>The accumulated security deposit with the Department is cumulative total of 30 years. The security deposits paid by individual consumers are captured in the computer data only to some extent. For rest of the cases, the amount paid by consumers are being verified where policy files are missing/ not –traceable.</p> <p>However, interests on security deposits are being paid periodically to consumers (HT&LT) for whom the data is available with the computer system.</p> <p>Efforts will be made in FY 2016-17, to document the security deposit made by all consumers in the computer system and for those consumers, the interest will be paid from FY 2009-10 onwards as directed by the Hon’ble Commission. PED prays to the Hon’ble Commission to extend the time limit up to FY 2016-17.</p> |

| S.No. | Directives | Commission Observation made in the Tariff Order FY 2015-16 | Compliance by the Electricity Department Puducherry |
|-------|---|---|--|
| 4. | Energy Audit and T&D Losses | Compliance is noted. Providing of metering arrangements for 1220 No's distribution transformers should be expedited as the meters are already obtained. The time schedule for providing meters at distribution transformers should be furnished by 15th June, 2015. | All the Distribution transformers at Yanam, Mahe and Karaikal regions are completely metered. Most of the Transformers at Puducherry region were metered except few cases. Proper energy audit report will be generated by monitoring HT feeder consumption vs connected DTRs. Similar energy audit report will be generated by monitoring consumer consumption vs Transformer metering. The reports will be furnished to Hon'ble Commission from FY 2016-17. |
| 5. | Estimation of the consumption by agriculture pump-sets | The consumption observed on the meters provided at distribution transformer feeding agricultural consumers and the actual consumption assessed per HP based on the meters provided so far may be furnished to the Commission by June, 2015. Metering of balance transformers should be expedited and road map for providing meters on all transformers should be furnished by June, 2015. | As mentioned above, agriculture consumption will also be computed from the metered distribution transformers of predominant agriculture connected transformers and the report will be furnished to Hon'ble Commission from FY 2016-17. |
| 6. | Management Information System | The PED is directed to report the timeline for completion of the APDRP Scheme to the Commission by 30th June, 2015. | The MIS reports could be generated as soon as the full implementation of R-APDRP scheme is done, which likely to be completed by March 2016 as per the present schedule. |

| S.No. | Directives | Commission Observation made in the Tariff Order FY 2015-16 | Compliance by the Electricity Department Puducherry |
|-------|---|--|---|
| 7. | Metering of consumer installations / replacement of non-functional or defective Meters | Action taken by PED on the compliance of the directive is noted. PED is directed to submit the present status of replacement of defective meters etc., with meters already available, the additional meters proposed to be ordered and timeline for receipt of the additional meters. PED is directed to report time schedule for replacement of defective meters as on 31.03.2015. The report must be submitted by 30th June, 2015. | Through 100% metering programme it is proposed to convert 20% of unmetered services (OHOB & Agriculture services) during FY 2016-17, 40% during FY 2017-18, and the remaining 40% during FY 2018-19. Further it is also programmed to eliminate the struck up meters in the system. As per the program, 91,000 meters are being replaced in the FY 2015-16 and 1,18,000 meters will be replaced in FY 2016-17. |
| 8. | Billing and Collection Efficiency | The PED is directed to report the present status of Billing and Collection efficiency and the improvement expected on completion of R-APDRP Scheme which is expected to be completed by March, 2015. The report should be submitted by 30th June, 2015. | The Billing efficiency will drastically improve on implementation of above mentioned metering programme. In addition, the billing software is also being modified through R-APDRP programme and it is likely to be commissioned by 1 st quarter of FY 2016-17 on completion of project by March 2016. The collection efficiency of the Department will improve on implementation of new software system. |
| 9. | Collection of arrears | Compliance is noted. The PED is directed to collect the arrears from the Government Departments, public under takings and private consumers and submit quarterly reports on the Realisation of the arrears. | The Government of Puducherry has released Rs 80 crore to liquidate the Govt arrears in FY 2014-15 and the level of support is expected during FY 2015-16 to liquidate the arrears of Govt/local bodies. Special drive is also programmed during the last quarter of FY 2015-16 to collect arrears from private consumers and defunct industry/commercial establishments. |

| S.No. | Directives | Commission Observation made in the Tariff Order FY 2015-16 | Compliance by the Electricity Department Puducherry |
|-------|---|--|--|
| 10. | Load Shedding and ensuring proper service to the consumers | Action taken is noted. The PED is directed to report the present status and the target date for setting up of the full-fledged Centre to provide better service to consumers. Details of Load shedding has to be informed to the consumers in advance through newspapers etc. The report should be submitted to the Commission by 30th June, 2015. | The 24X7 call centre will be opened as soon as the software implementation is completed by the firm under R-APDRP scheme. The other infrastructure for the 24X7 call centre is completed. It is to be Commissioned by the 1 st quarter of FY 2016-17. |
| 11. | Demand Side Management and Energy Conservation | The action taken is noted. The PED is directed to report the energy savings obtained by implementation of the measures taken so far. The PED is also directed to report on further action being taken on implementation of Demand side management and on the impact of the measures. The status report may be submitted by 30th June, 2015. | As a part of demand side management, the Department has already successfully implemented Demand side management energy efficient lighting programme (DELP) for domestic category of consumers. The Department is also assisting Puducherry Government to convert all existing street lights into LED fittings and the scheme is under preparation. A significant reduction under energy consumption of street lights category is anticipated on implementation of scheme by Local bodies/Municipality. |
| 12. | Pilferage of Energy | The compliance is noted. The Commission will expedite the direction/clarification after studying the views of other licensees also. | The Hon'ble Commission has issued draft supply code, which has addressed the issues raised by the Department. The exclusive APTS (anti power theft squad) is undertaking inspections and periodic reports are being furnished to the Hon'ble Commission. |
| 13. | Employee Cost/Manpower Study | Compliance is noted. The present status of restructuring shall be reported to the Commission by 30th June, 2015. | At present the proposal is with Central Government Ministry of Finance and the query raised by the Department of Expenditure is being addressed. |

| S.No. | Directives | Commission Observation made in the Tariff Order FY 2015-16 | Compliance by the Electricity Department Puducherry |
|-------|--|---|---|
| 14. | Load Forecasting study | The study for medium term (7-10 years) and long term (15-25 years) forecasting may be expedited. The study to be conducted by PED should be an independent study reflecting the realistic forecast. In this connection the PED may refer to the 18 th Power Survey of CEP. | Pwc is conducting load research study in the UT of Puducherry. Once the report is finalised PED will prepare long term forecast either internally or through appointment of consultant. |
| 15. | Bill Payment | Compliance of the directives is noted. The Commission appreciates, the steps taken by PED to improve the bill collection | At present on-line payment gateway is available through State Bank of India portal. Through the portal any bank account holder can make payment. Other mode of payment gateways would be implemented on commissioning of new billing software under R-APDRP scheme which is likely to be commissioned by 1st quarter of FY 2016-17 on finishing the project by March 2016. |
| 16. | Capital expenditure | The compliance is noted. The business plan is being examined by the Commission. | The business plan for MYT period of FY 2016-17 to FY 2018-19 has been submitted by the Department and the same was approved by Hon'ble Commission on 4/12/2015. |
| 17. | Enforcement Cell | The compliance of the directive is noted. Steps may be taken to intensify the inspection to curb pilferage of energy. The Commission will expedite the clarifications/ directions after studying the views of other licensees also. | The Hon'ble Commission has issued draft supply code, which has addressed the issues raised by the Department. The exclusive APTS (anti power theft squad) is undertaking inspections and periodic reports are being furnished to the Hon'ble Commission. |
| 18. | Assessment of the open access consumers | The compliance by the PED is noted. | The open access application submitted by M/s. Inox Air product Pvt Limited is under process. However, the department is ready with the modalities to address the indenting open access consumers. |

| S.No. | Directives | Commission Observation made in the Tariff Order FY 2015-16 | Compliance by the Electricity Department Puducherry |
|-------|---|---|---|
| 19. | Connected Load/Contract Demand based fixed charges for LT Industrial and Commercial categories | Compliance is noted. The PED is directed to report by 30th September, 2015 on the present status of implementation of R-APDRP programme. | The Department had initiated proposal to install smart meters to the bulk load (meter with CT) consumers of Industrial and commercial category during the FY 2017-18. On completion of the same, the Department will opt for demand based tariff to those class of consumers. |
| 20. | True-up Petition for the respective years | It is noted that Final True up for FY 2011-12 and FY 2012-13 and Provisional True up for FY 2013-14 are submitted with ARR and Tariff Petition for MYT Period FY 2015-16 to FY 2017-18. Audit of Accounts for FY 2013-14 should be expedited. | True-up petition for the FY 2013-14 has been filed along with audited accounts. |
| 21. | Proposal of the Energy Charges for the agriculture category | Compliance is noted. The present status of providing meter to Agricultural consumers should be reported by 30th June, 2015. | On completion of metering to all agriculture consumers, the Department will opt for energy based tariff to the agriculture sector and the metering process would be completed by FY 2016-17. |
| 22. | Public grievance meetings | The compliance is noted. These meetings shall be conducted every month and a monthly report shall be submitted to the Commission in this regard. The Commission also insists that the department should sort out the issues raised in the meetings. | Public grievance meeting is being conducted by PED at sub-division/divisional levels after proper press advertisements and the details of the same will be furnished by this Department. |

Table 12-2: Status of Compliance of New Directives

| S.No. | Directives | Commission Observation made in the Tariff Order FY2015-16 | Compliance by the Electricity Department Puducherry |
|-------|---|--|--|
| 1. | Unbundling & Corporatization | <p>As part of the Power Sector reforms as envisaged by the Electricity Act, 2003, the transmission and distribution activities are to be separated and independent corporations are to be formed. The transmission companies and the distribution companies thus formed under the Companies Act will have a distinct legal identity, apart from providing the management with better financial autonomy and more delegation of powers. Further, the new management structure ensures financial accountability and better consumer satisfaction.</p> <p>The Commission directs the Petitioner to take up this matter the Government of Puducherry for early implementation.</p> | <p>As directed by the Hon'ble Commission, the issue will be taken up with the Government of Puducherry during FY 2016-17 for unbundling and corporatization.</p> |

| S.No. | Directives | Commission Observation made in the Tariff Order FY2015-16 | Compliance by the Electricity Department Puducherry |
|-------|--|--|---|
| 2. | Safety of Consumers and Employees | <p>The Commission noted with concern from the audited accounts of the FY 2012- 13 that an amount of Rs. 0.19 Crore was paid towards claims of electrocution cases and that there is a contingent liability of Rs. 0.85 Crore regarding the pending electrocution cases. The Commission directs the Petitioner to take necessary steps for regular patrolling to check the distribution lines particularly during the monsoon season. Further, the Petitioner should disseminate information and tips among the consumers during their monthly consumer grievance meetings to handle electrical items and to avoid touching the live wires. Apart from compliance to the statutory requirements, these types of consumer education and awareness programmes will be very helpful to avoid electrocution/accidents in semi-urban and rural areas. The Commission also directs the Petitioner to take necessary steps to provide safety equipments/tools such as gum boots, safety boots, mechanical ladders, helmets etc. for the safety of their employees.</p> | <p>Intensive training on safety was conducted by the Technical Training Centre of this Department in all the four regions of Puducherry during the second and third quarter of FY 2015-16. Further training programme will be conducted during the last quarter of FY 2015-16.</p> <p>The above training programme includes artificial resuscitation being conducted by JIPMER Doctors for the employees and the engineers.</p> <p>The consumers also will be addressed regarding the safety and energy efficiency during the public grievances meeting.</p> <p>It is also programmed to supply safety equipments to the employees from the FY 2016-17 onwards and the employees were also being motivated to use the safety equipments during the above training sessions.</p> |

| S.No. | Directives | Commission Observation made in the Tariff Order FY2015-16 | Compliance by the Electricity Department Puducherry |
|-------|---|---|---|
| 3. | Technology up gradation | The Commission directs the Petitioner should upgrade transmission and distribution lines and substations with latest and advanced technology. While drafting the Business plan for the control period from FY 2016-17, this aspect should be kept in mind to improve efficiency in service and to provide uninterrupted/reliable power supply. The commercial, financial and administrative functions should be fully computerised. The Commission also directs the Petitioner to initiate immediate action to introduce online billing, collection and complaints system to facilitate the consumers. The Business Plan should also make provision for proper training of the employees to handle the modern equipments, computer network etc. | As directed by the Hon'ble Commission, while framing the business plan necessary provision was made to upgrade the transmission and distribution networks with modern / latest design The employees also will be trained in adopting latest IT technology to maintain online billing system, collection and redressal of complaints. |
| 4. | Publicity for Consumer Grievance Handling System | The Commission directs the Petitioner to give proper publicity to the consumers through bills, advertisement in local newspapers and during the monthly consumer grievances meetings, the entire system for handling the consumer grievances as envisaged in the Electricity Act and the Regulations of the Commission. This will create awareness amongst the consumers to approach the proper forum for redressal of their grievances. | Public Grievance Meeting is being conducted at sub-divisional / divisional level at all the four regions of Puducherry. Proper advertisements in the regional newspapers are being issued for public awareness and redressal of their grievances. |

| S.No. | Directives | Commission Observation made in the Tariff Order FY2015-16 | Compliance by the Electricity Department Puducherry |
|-------|--|--|--|
| 5. | Submission of Business Plan for MYT Control Period: | As elaborated in Para 1.7 of this Tariff Order, the details in the Business Plan submitted by the Petitioner is insufficient. The supporting data such as, scheme- wise cost benefit analysis, financing plan, loss trajectory have not been adequately submitted. In view of the same, the Commission is constrained to defer the implementation of Multi Year Tariff and concomitant Business Plan. The Petitioner is therefore, directed to submit the revised Business Plan for the period FY 2016-17 to FY 2018-19, along with the requisite details as provided in JERC (Multi-year Tariff and Distribution) Regulations, 2014, latest by 31st July 2015. No further extension will be given as the MYT Petition would be required to be prepared only after approval of the Business Plan. The MYT submission deadline remains 30th November, 2015. | As per the directions of the Hon'ble Commission, the Business plan for the MYT control period of FY 2016-17 to 2018-19 has been filed by the Department and the orders on the business plan has been issued by the Hon'ble Commission on 04 th December, 2015. The Department has also filed the MYT petition for the control period of FY 2016-17 to 2018-19 on time. |

| S.No. | Directives | Commission Observation made in the Tariff Order FY2015-16 | Compliance by the Electricity Department Puducherry |
|-------|---|--|--|
| 6. | Levy of FPPCA before 30th June of the following Financial Year | <p>During the Public Hearing held at Puducherry on 17th February 2015, the representatives from HT/EHT industries made a request that FPPCA may be finalised and levied before 30th June of the following year which will enable the units to account the FPPCA claim in the respective Financial Year. It was pointed out by them, if the expenditure towards FPPCA claim is received after the closure of the annual accounts of the Financial Year, it is accounted by the units in the next accounting period. The representatives of HT/EHT Industries apprehended that the Income Tax authorities may consider the FPPCA claim pertaining to the previous year(s) as "prior period items" and may not allow the same as business expenditure while assessing the current year income of the unit.</p> <p>The Commission directs the Petitioner to finalise the FPPCA amount due from the consumers with respect to the Financial Year before 30th June of the following financial year and upload the same on the website of the Petitioner and give advertisement in the newspapers. This would facilitate the companies to assess the total liability of the company towards FPPCA of the Financial Year for accrual accounting before compilation, audit & adoption of the annual accounts.</p> | <p>The above direction of Hon'ble commission has been complied with by the Electricity Department during FY 2014-15 and the same will be complied with in future also.</p> |

CHAPTER 13. PROPOSED TARIFF SCHEDULE FOR MYT CONTROL PERIOD

13.1 Tariff Schedule for FY 2016-17

13.1.1 The tariff indicated in this tariff schedule is the tariff rate proposed to be payable by the consumers of Union Territory of Puducherry.

13.1.2 These tariffs are exclusive of electricity duty, tax on sale of electricity, taxes and other charges levied by the Government or other competent authorities from time to time.

13.1.3 Unless otherwise agreed to, these tariffs for power supply are applicable to single point of supply.

13.1.4 The power supplied to a consumer shall be utilized only for the purpose for which supply is taken and as provided for in the tariff. If energy supplied for a specific purpose under a particular tariff is used for a different purpose, not contemplated in the contract for supply and / or for which higher tariff is applicable, it will be deemed as unauthorized use of electricity and shall be dealt with for assessment under the provisions of section 126 of the Electricity Act, 2003 & Supply Code Regulation notified by JERC. Provided that,

- a) If a portion of the domestic premises limited to only one room is used for running small household business having connection under domestic category, such connection shall be billed under domestic category provided that the total monthly consumption of the consumer (including consumption for above mentioned small household business) does not exceed 150 kWh.
- b) If either more than one room or only one room having monthly consumption exceeding 150 kWh for consecutive three months is detected in the domestic premises being used for mixed purposes having domestic connection, such connection shall further be billed under commercial category until a separate connection of appropriate tariff is taken for that portion used for non-domestic purpose.

13.1.5 If connected load of a domestic category is found to be at variance from the sanctioned/ contracted load as a result of replacement of appliances such as lamps, fans, fuses, switches, low voltage domestic appliances, fittings, it shall not fall under Section 126 and Section 135 of the EA 2003.

13.1.6 Power Factor Charges for HT and EHT

The monthly average power factor shall mean the ratio expressed as percentage of total kWh to total kVAh supplied during the month. The ratio shall be rounded up to two figures.

- a) The monthly average power factor of the supply shall be maintained by the consumer not less than 0.90 (lagging). If the monthly average power factor of a consumer falls below 90% (0.9 lagging), such consumer shall pay a surcharge in addition to his normal tariff @ 1% on billed demand and energy charges for each fall of 0.01 in power factor upto 0.7(lagging).
- b) In case the monthly average power factor of the consumer is more than 95% (0.95 lagging), a power factor incentive @ 0.5% on demand and energy charges shall be given for each increase of 0.01 in power factor above 0.95 (lagging).
- c) If the average power factor falls below 0.70 (lagging) consecutively for 3 months, the licensee reserves the right to disconnect the consumer's service connection without prejudice for the levy of the surcharge.
- d) The power factor shall be rounded off to two decimal places. For example, 0.944 shall be treated as 0.94 and 0.946 shall be treated as 0.95.

13.1.7 If the consumer fails to pay the energy bill presented to him by the due date, the Department shall have the right to disconnect the supply after giving 15 days' notice as per provision of the Act & Supply Code Regulation.

13.1.8 Fixed charges, wherever applicable, will be charged on pro-rata basis from the date of release of connection. Fixed charges, wherever applicable, will be double as and when bi-monthly billing is carried out, Similarly slabs of energy consumption will also be considered accordingly in case of bi-monthly billing.

13.1.9 The billing in case of HT/EHT shall be on the maximum demand recorded during the month or 75% of contracted demand, whichever is higher. If in any month, the recorded maximum demand of the consumer exceeds its contracted demand, that portion of the demand in excess of the contracted demand shall be billed at double the normal rate. Similarly, energy consumption corresponding to excess demand shall also be billed at double the normal rate. The definition of the maximum demand would be in accordance with the provisions of the Supply Code Regulation. If such over-drawl is more than 20% of the contract demand then the connections shall be disconnected immediately.

Explanation: Assuming the contract demand as 100 KVA, maximum demand at 120 KVA and total energy consumption as 12000 kWh, then the consumption corresponding to the contract demand will be 10000 kWh ($12000 \times 100 / 120$) and consumption corresponding to the excess demand will be 2000 kWh. This excess demand of 20 KVA and excess consumption of 2000 kWh will be billed at twice the respective normal rate. Such connections drawing more than 120 kVA, shall be disconnected immediately.

13.1.10 Unless specifically stated to the contrary, the figures of energy charges relates to Rs per unit (kWh) charge for energy consumed during the month.

13.1.11 **Delayed payment surcharge** shall be applicable to all categories of consumers. Delayed payment surcharge of 2% per month or part thereof shall be levied on all arrears 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. In case of permanent disconnection, delayed payment surcharge shall be charged only upto the month of permanent disconnection.

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

13.1.13 **Prompt Payment Rebate:** If payment is made at least 7 days in advance of the due date of payment a rebate for prompt payment @ 0.25 % of the bill amount shall be given. Those consumers having arrears shall not be entitled for such rebate.

13.2 Low Tension Supply

Domestic Purposes

13.2.1 Domestic Purposes (A2)

1. This tariff is applicable to services for lights, fans, air-conditioning, heating and other small domestic appliances etc used for:
 - a) Genuine domestic purposes including common services for stair-case, lifts, water tanks in the purely domestic apartments.
 - b) Supply to actual places of public worship such as temples, mosques, churches etc.

- c) Ashrams and Mutts, non-commercial orphanage homes and old people homes run by religious and charitable institutions, social welfare and voluntary organizations.
- d) Youth hostels, Harijan hostels, Rehabilitation Centres, Anganwadies and Balwadies run by Social Welfare Department.
- e) For own residences where one room is set apart for the purpose of consultation by doctors, lawyers, engineers, architects and auditors.
- f) To handloom in residence of handloom weavers (regardless of the fact whether outside labour is employed or not) and to handloom in sheds erected.
- g) To the residences where supply from a house is extended to tailoring shops, job typing, document writing, laundry pressing, and small caterers set up in the verandah of the house with small lighting load only (one tube light only).

2. The charges for domestic service are as indicated in the table below:

Table 13-1: Existing and Proposed Charges for Domestic Category

| Consumption Range | Existing Charges | | Proposed Charges | |
|---------------------------|----------------------------|--------------|-----------------------------|--------------|
| | FC (Rs/ Connection/ Month) | EC (Rs/ kWh) | FC (Rs/ Connection / Month) | EC (Rs/ kWh) |
| 0-100 units per month | 32.00 | 1.10 | 32.00 | 1.10 |
| 101-200 units per month | 32.00 | 1.65 | 32.00 | 1.65 |
| 201-300 units per month | 32.00 | 3.25 | 32.00 | 3.25 |
| Above 300 units per Month | 32.00 | 4.25 | 32.00 | 4.25 |

3. The method of billing of charges shall be as explained below (specifically for FY 2015-16).
 - a) Say units billed in a month are 80 units. Then the fixed charges will be Rs. 32/month and energy charges Rs. 88 (80 units X Rs 1.10/unit).
 - b) In case the units billed are 275, then the fixed charges will be Rs. 32/month and energy charges will be Rs 518.75 (100 units X 1.10 + 100 units X 1.65 + 75 units X 3.25).

13.2.2 HUT SERVICES (A3)

1. For supply to bonafide hut services with only two numbers of 40W Florescent Tube Lights.
2. The charges for hut services (OBOH) are as indicated in table below:

Table 13-2: Existing and Proposed Charges for Hut Category

| Description | Existing Fixed Charges | Proposed Fixed Charges |
|-----------------------|---------------------------------------|---------------------------------------|
| Hut Services/ OHOB | Rs. 27 per connection per month | Rs. 27 per connection per month |

Note:

- a. *Hut is defined as a living place not exceeding 300 sq. ft. or 27.87 sq.m. with mud wall/brick wall or thatched wall and thatched roof only. Hut does not include farm huts. If any of the conditions is changed at a later stage, this concessional supply will be discontinued and the consumer will have to take metered supply.*
- b. *The tariff under this item is also applicable for houses constructed for economically weaker sections under the "Chief Minister's 5000 houses programme" and houses constructed by the District Rural Development Agency under Indira Awaas Yojana and by the Adi Dravidar Welfare Department having a living space not exceeding 300 sq. ft. or 27.87 sq.*
- c. *The consumer under this category should use only two numbers of 40 watts florescent tube lights. He should not use bulbs/tube lights of higher wattage or connect any other electrical equipment/ appliances other than those mentioned above. Supply from such services should not be tapped for any other purposes including functions, public meetings and also for neighboring huts. If at any time, any unauthorized load or extension, use of higher wattage bulbs or use of service for other purposes is detected, the service will be disconnected forthwith.*

13.2.3 COMMERCIAL (A1)

1. This tariff is for lights and combined installation of lights and fans, mixed loads of lights and power, heating and air-conditioning applicable to:
 - a) Non-domestic and non-industrial consumers, trade and commercial premises.
 - b) Educational institutions, hostels, public libraries.
 - c) Hotels, restaurants, boarding and lodging homes
 - d) Hospitals, Private clinics, Nursing Homes, Diagnostic Centre's, X-ray Units etc.
 - e) IT related development centres and service centres.

- f) Common services for stair-case, lifts, water tanks etc in the purely commercial /combination of commercial and domestic.

2. The charges are as indicated in the table below.

Table 13-3: Existing and Proposed Charges for Commercial Category

| Consumption Range | Existing Charges | | Proposed Charges | |
|---------------------------|-----------------------------|--------------|----------------------------|--------------|
| | FC (Rs/ Connection / Month) | EC (Rs/ kWh) | FC (Rs/ Connection/ Month) | EC (Rs/ kWh) |
| 0-100 units per month | 75.00 | 4.25 | 75.00 | 4.25 |
| 101-250 units per month | 75.00 | 4.85 | 75.00 | 4.85 |
| Above 250 units per month | 75.00 | 5.25 | 75.00 | 5.25 |

AGRICULTURE SERVICES (D)

Agriculture/ Cottage Industries etc.

13.2.4 Agriculture (D1)

For supply to bonafide agricultural services with a connected load of not less than 3 HP per service.

Table 13-4: Existing and Proposed Charges for Agriculture Category

| Description | Existing Fixed Charges | Proposed Fixed Charges |
|---------------|---|---|
| Small Farmers | Rs. 9.00 per HP per month | Rs. 9.00 per HP per month |
| Small Farmers | Rs. 27.00 per HP per Month plus Service Charges Rs. 225 per service per annum | Rs. 27.00 per HP per Month plus Service Charges Rs. 225 per service per annum |

Note:

- a. *Electricity will be supplied under the tariff category "Small farmers" to those consumers whose families are solely dependent on the income derived from their agricultural land holding, which should not exceed two and half acres of wet land or five acres of dry land. A certificate to this effect from Revenue authority shall be produced. "Small farmer means a person whose total holding, whether as owner, tenant or mortgaged with possession or partly in one capacity and partly in another, does not exceed two-and-a half acres of wet lands or five acres of dry land. In*

computing the extent of land held by a person who holds wet and dry lands, two acres of dry land shall be taken as equivalent to one acre of wet land.

- b. The above concession will be withdrawn if resale of energy or unauthorized load / extension or use for other purpose is detected by the Department.*
- c. Agricultural power loads below 3 HP will be charged under Tariff Category A1. A bonafide farmer may use his motor in the Agricultural Service for allied agricultural purposes such as sugarcane crushing, thrashing etc. with the prior approval of concerned Executive Engineer (Operation & Maintenance), Electricity Department.*
- d. Power supply to Farm Houses shall be metered separately and charged under domestic tariff (A2).*

Payment of Tariff Charges by Agriculture Consumers

- a. The Tariff shall be collected in three equal installments payable in April, August and December in each year. The installments shall be payable before the 15th of the respective months. The service charges of Rs 225 per annum shall also be collected in three installments of Rs. 75, Rs. 75 and Rs. 75 along with installment of fixed charges in April, August and December months.
- b. For new service, the first installment shall be proportionate to the number of whole months remaining till the month in which the first installment is due. Fraction of a month shall be reckoned as a whole month

13.2.5 Cottage Industries /Poultry Farms/ Horticulture/Pisciculture (D2)

It is applicable to bonafide cottage industries, horticultural nurseries including plant tissue culture media, bonafide poultry farms and pisciculture.

The charges are as indicated in the table below:

Table 13-5: Existing and Proposed Charges for Cottage Industry

| Consumption Range | Existing Charges | | Proposed Charges | |
|---------------------------|-----------------------------|--------------|-----------------------------|--------------|
| | FC (Rs/ Connection / Month) | EC (Rs/ kWh) | FC (Rs/ Connection / Month) | EC (Rs/ kWh) |
| 0-100 units per month | 32.00 | 1.10 | 32.00 | 1.10 |
| 101-200 units per month | 32.00 | 1.65 | 32.00 | 1.65 |
| 201-300 units per month | 32.00 | 3.25 | 32.00 | 3.25 |
| Above 300 units per Month | 32.00 | 4.25 | 32.00 | 4.25 |

Note:

1. *Cottage industries*

The following conditions should be satisfied in order that an industry may be classified as a bona fide cottage industry:

- a) It should be conducted entirely within the home, the home being deemed to be permanent residence of the proprietor.*
- b) The industry shall not cause any residence to constitute a factory within the meaning of the Factories Act, 1948.*
- c) Not more than two persons outside the immediate family of the proprietor shall be employed in the factory.*
- d) It should be certified by the Director of Industries that the industry for which power is used is a cottage industry.*
- e) The produce is not purely utilized mainly for the domestic consumption of the proprietor but should also be available for sale to the public.*

2. *Poultry farms*

The following conditions should be satisfied in order that the service may be classified as a bona fide poultry farm.

- a) The capacity of the farm shall be a minimum of 100 birds and maximum of 5,000 birds (both layer and broiler birds).*
- b) The application of the beneficiary seeking such concession shall be verified and recommended by the Animal Husbandry Department.*

3. *Horticultural/ Pisciculture*

The applications of the beneficiary seeking such concession shall be verified and recommended by the Director, Agriculture Department. For Pisciculture, applications of the beneficiary seeking such concession shall be verified and recommended by the Director, Fisheries Department.

13.2.6 Public Lighting

- a. The tariff for public lighting will be as follows:

Table 13-6: Existing and Proposed Charges for Public Lighting

| Consumption Range | Existing Charges | | Proposed Charges | |
|-------------------|-----------------------------|--------------|-----------------------------|--------------|
| | FC (Rs/ Connection / Month) | EC (Rs/ kWh) | FC (Rs/ Connection / Month) | EC (Rs/ kWh) |
| Public Lighting | 54.00 | 5.40 | 54.00 | 5.40 |

- b. This tariff will also apply to public lighting in markets, bus stands, traffic signals,

high mast lights on public ways, public parks, public lighting in notified industrial estates.

13.2.7 LT Industrial (C)

- a. Applicable to low tension industrial consumers including lighting in the industrial services and Water Tanks including lighting in premises maintained by State Government Departments/ Undertakings and local bodies.
- b. The charges are as indicated in the table below.

Table 13-7: Existing and Proposed Charges for LT Industrial

| Consumption Range | Existing Charges | | Proposed Charges | |
|-------------------|-----------------------------|--------------|-----------------------------|--------------|
| | FC (Rs/ Connection / Month) | EC (Rs/ kWh) | FC (Rs/ Connection / Month) | EC (Rs/ kWh) |
| All Units | 86.00 | 5.10 | 86.00 | 5.10 |

LT Supply Limit for all LT Categories:

For single phase connection, the connected load shall not exceed 4 kW, and for 3 phase connection, the connected load shall not exceed 130 HP or 97 kW

13.3 High Tension Supply

13.3.1 High Tension – I

High Tension I (a)

- Applicable to industrial establishments, IT and ITES based Companies registered under Factories Act/ Companies Act with Contracted Maximum Demand upto 5000 kVA.

High Tension I (b)

- For Commercial Establishments including Laboratories, Hotels, Marriage Halls, Cinema Theatres, Private Educational Institutions, Private Hospitals, Shopping Malls, Telephone Exchanges, broadcasting companies with contracted maximum demand upto 5000 kVA.

13.3.2 The demand and the energy charges are as indicated in the table below:

Table 13-8: Existing and Proposed Charges for High Tension I(a) and I(b) Category

| Consumption Range | Existing Charges | | Proposed Charges | |
|---|---------------------------|-----------------|---------------------------|-----------------|
| | FC (Rs/ kVA/ Month) | EC (Rs/ kWh) | FC (Rs/ kVA/ Month) | EC (Rs/ kWh) |
| HT I (a) For contract demand upto 5000kVA | 235.00 | 4.75 | 235.00 | 4.75 |
| HT I (b) For contract demand upto 5000kVA | 235.00 | 4.75 | 235.00 | 4.75 |

13.3.3 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 Supply Code Regulation. If such over-drawl is more than 20% of the contract demand then the connections shall be disconnected immediately.

Explanation:

Assuming the contract demand as 100 kVA, maximum demand at 120 kVA and total energy consumption as 12000 units, then the consumption corresponding to the contract demand will be 10,000 units ($12000 \times 100 / 120$) and consumption corresponding to the excess demand will be 2000 units. This excess demand of 20 kVA and excess consumption of 2000 units will be billed at twice the respective normal rate. E.g. in case of HT(I) (a) category (FY 2015-16), excess demand and consumption will be billed at the rate of Rs 470 per kVA per month and Rs 9.50/kWh respectively.

13.3.4 High Tension – II

- a. Applicable to State and Central Government establishments of non-industrial and non-commercial nature.
- b. The fixed/demand charges and energy charges are as indicated in the table below.

Table 13-9: Existing and Proposed Charges for High Tension II Category

| Consumption Range | Existing Charges | | Proposed Charges | |
|-------------------|---------------------|--------------|---------------------|--------------|
| | FC (Rs/ kVA/ Month) | EC (Rs/ kWh) | FC (Rs/ kVA/ Month) | EC (Rs/ kWh) |
| HT II | 235.00 | 5.50 | 235.00 | 5.50 |

- c. The billing shall be 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 Supply Code Regulation. If such over-drawl is more than 20% of the contract demand then the connections shall be disconnected immediately.

13.3.5 High Tension – III

- a. Applicable to all types of industries supplied at 110 kV or 132 kV as the case may be
- b. The demand and energy charges are as indicated in the table below:

Table 13-10: Existing and Proposed Charges for High Tension III Category

| Consumption Range | Existing Charges | | Proposed Charges | |
|-------------------|---------------------|--------------|---------------------|--------------|
| | FC (Rs/ kVA/ Month) | EC (Rs/ kWh) | FC (Rs/ kVA/ Month) | EC (Rs/ kWh) |
| HT III | 220.00 | 4.75 | 220.00 | 4.75 |

- c. The billing shall be 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 Supply Code Regulation. If such over-drawl is more than 20% of the contract demand then the connections shall be disconnected immediately.

Supply Voltage for all HT categories

The supply voltage for HT consumer's upto 5000 kVA will be 33 kV, 22 kV or 11 kV as the case may be. New High Tension consumers who want to avail a contract demand above 5000 KVA or existing High Tension consumers who want to enhance their demand beyond total contract demand of 5000 kVA should avail power at 110 KV or 132 KV as the case may be.

13.4 Temporary Supply

- a. The tariff applicable and minimum charges for the temporary supply of energy will be as follows:

Table 13-11: Existing and Proposed Charges for Temporary Supply

| Description | Existing Charges | | Proposed Charges | |
|--|--|--|--|--|
| | Minimum charge | Tariff applicable for entire consumption (Rs./kWh) | Minimum charge | Tariff applicable for entire consumption (Rs./kWh) |
| Lights or combined installation of lights and fans, motive power, heating and others | Rs. 200 per connection per month or part thereof | 9.45 | Rs. 200 per connection per month or part thereof | 9.45 |
| Special illumination | Rs. 500 per connection per month or part thereof | 9.45 | Rs. 500 per connection per month or part thereof | 9.45 |
| Construction and testing purpose for load exceeding 130 HP or 97 kW | Rs. 500 per connection per month or part thereof | 9.45 | Rs. 500 per connection per month or part thereof | 9.45 |

NOTE:

- a) *The rate for Special illumination shall apply to weddings, garden-parties and other Private/Government functions when the illumination is obtained through bulbs fastened in other surfaces of wall of buildings, on trees and poles inside the compound and in pandal etc., outside the main building.*
- b) *In cases where such Special illumination is done in the existing regular services the energy utilized for such illumination shall be metered separately and the consumption will be charged under Special illumination charge as levied under temporary supply.*
- c) *Wherever such Special illumination is done unauthorized, a penal charge of Rs. 500 for service shall be levied in addition to the existing tariff of the installation.*
- d) *Other conditions for connection of line and service connection charges, dismantling, security deposit etc. will be as per the rules now in force.*

CHAPTER 14. PROPOSED SCHEDULE OF SERVICES AND CHARGES

14.1 Charges for service connections

14.1.1 The following table shows the charges for service connections

Table 14-1 Proposed Service Connection Charges

| | Particulars | Category | Existing Charges (Rs.) | Proposed Charges [Rs] |
|-----|-----------------------------------|--------------------------------------|------------------------|-----------------------|
| (A) | New LT/ HT overhead service lines | (i) One hut one Bulb | Nil | Nil |
| | | (ii) Other single phase Services | 250 | 250 |
| | | (iii) Three phase Services | 500 | 500 |
| | | (iv) L.T C.T operated Meter services | 3000 | 3000 |
| | | (v) H.T Services | 5000 | 5000 |
| (B) | New LT underground service lines | (i) Single Phase services - | 500 | 500 |
| | | (ii) Three phase Services | 1000 | 1000 |
| (C) | Rating / re-rating of services | (i) Single phase Services | 125 | 125 |
| | | (ii) Three phase Services | 250 | 250 |
| | | (iii) L.T C.T operated Meter service | 1500 | 1500 |
| | | (iv) H.T Service | 2500 | 2500 |

Note: The above charges under (A) & (B) will be applicable for addition or alteration or reduction of connected load and enhancement or reduction of CMD or alteration of internal Electrical installations.

14.2 Testing of installation

14.2.1 Testing for servicing a new installation (or of an extension or alteration) - For the first test No Charge. Subsequent testing warranted due to absence of contractor or his representative (or) due to defects in wiring of consumer's premises or at the request of the consumer or at occasions that warrant testing of installations for the second time for reasons attributable to the consumers

Table 14-2: Proposed Testing of Installation Charges

| Particulars | Existing Charges (Rs.) | Proposed Charges (Rs.) |
|--|------------------------|------------------------|
| (i) Domestic lighting / Commercial lighting / Agriculture Services | 200 | 200 |
| (ii) Other LT Services | 900 | 900 |
| (iii) HT/EHT Services | 7500 | 7500 |

14.3 Testing of meters & metering arrangements

14.3.1 For testing of meter at the instance of the consumer

Table 14-3: Proposed Testing of Metering Charges

| Particulars | Existing Charges (Rs.) | Proposed Charges (Rs.) |
|---|------------------------|------------------------|
| (i) Single phase direct meter | 150 | 150 |
| (ii) Three phase direct meter upto 50 A | 200 | 200 |
| (iii) L.T C.T coil test | 800 | 800 |
| (iv) H.T Tri-vector Meter (0.5 class accuracy or CT operated LT meters. | 1500 | 1500 |
| (v) H.T Tri-vector Meter (0.2 class accuracy) | 2000 | 2000 |
| (vi) H.T Metering Cubicle | 3500 | 3500 |

14.4 Testing of HT/EHT consumer protective equipment

Table 14-4: Proposed Testing of HT/EHT Consumer Equipment Charges

| Particulars | Existing Charges (Rs.) | Proposed Charges (Rs.) |
|--|------------------------|------------------------|
| Testing charges for protective relays (Earth fault, line fault etc.) | 4500 | 4500 |
| Testing charges for one set of current transformer. | 4500 | 4500 |
| Testing charges for one set of potential transformers. | 4500 | 4500 |
| Testing charges for one set of circuit breaker | 4500 | 4500 |
| Testing charges for measurement of earth resistance. | 3000 | 3000 |
| Testing charges for Transformer oils | 500 | 500 |

14.5 Disconnection / Re-connection charges

Table 14-5: Proposed Disconnection/Reconnection Charges

| Particulars | Existing Charges (Rs.) | Proposed Charges (Rs.) |
|---|------------------------|------------------------|
| (i) Disconnection of L.T service on request | 100 | 100 |
| (ii) Disconnection of HT service on request | 500 | 500 |
| (iii) Reconnection of L.T Service (on all occasions). | 100 | 100 |
| (iv) Reconnection of HT Service (on all occasions). | 500 | 500 |

14.6 Title transfer of services

Table 14-6: Proposed Disconnection/Reconnection Charges

| Particulars | Existing Charges (Rs.) | Proposed Charges (Rs.) |
|---------------------------------------|------------------------|------------------------|
| (i) Domestic | 250 | 250 |
| (ii) Commercial lighting installation | 500 | 500 |
| (iii) All other LT installation | 1000 | 1000 |

| | | |
|----------------------|------|------|
| (iv) HT/EHT Services | 2000 | 2000 |
|----------------------|------|------|

14.7 Furnishing of certified copies

Table 14-7: Proposed Certified Copies Charges

| Particulars | Existing Charges (Rs.) | Proposed Charges (Rs.) |
|---|--|--|
| (i) Issue of duplicate Monthly bills for a month. | 10 | 10 |
| (ii) Contractor's completion-cum-test report | 10 | 10 |
| (iii) Ledger extract | 20.00 / calendar year or part thereof. | 20.00 / calendar year or part thereof. |
| (iv) Agreement | 50 | 50 |
| (v) Estimate | 50 | 50 |

14.8 Meter rent charges

Table 14-8: Proposed Meter Rent Charges

| | Particulars | Existing Charges (Rs.) | Proposed Charges (Rs.) |
|-------|----------------------------|---|---|
| (i) | Single-phase meter | 10/- per meter/ month. or part thereof | 10/- per meter/ month. or part thereof |
| (ii) | Three phase meter | 25/- per meter/ month. or part thereof | 25/- per meter/ month. or part thereof |
| (iii) | LT C.T operated meters | 200/- per meter/ month. or part hereof | 200/- per meter/ month. or part hereof |
| (iv) | HT/EHT metering equipments | 500/- per meter/ month .or part thereof | 500/- per meter/ month .or part thereof |

14.9 Fuse renewal charges

Table 14-9: Proposed Fuse Renewable Charges

| Particulars | Existing Charges (Rs.) | Proposed Charges (Rs.) |
|---|------------------------|------------------------|
| (i) Domestic | -NIL | -NIL |
| (ii) Commercial | 50 | 50 |
| (iii) L.T Industrial | 50 | 50 |
| (iv) High Tension/Extra High Tension installation | 250 | 250 |

14.10 Shifting of meter board at consumer's request

Table 14-10: Proposed Shifting of meter board Charges

| Particulars | Existing Charges (Rs.) | Proposed Charges (Rs.) |
|----------------------------|------------------------|------------------------|
| (i) LT single phase supply | 125 | 125 |
| (ii) LT Three phase supply | 250 | 250 |

CHAPTER 15. PRAYER TO THE HON'BLE COMMISSION

15.1 Prayer to the Hon'ble Commission

15.1.1 The Electricity Department, Government of Puducherry (PED) respectfully prays to the Hon'ble Commission to:

- 1) Admit the petition seeking Final True up for FY 2013-14, Provisional True Up for FY 2014-15, Annual Performance Review for FY 2015-16 and Multi-Year Tariff Petition for FY 2016-17 to FY 2018-19 as per the provisions of JERC (Multi Year Distribution Tariff) Regulations, 2014.
- 2) Approve the total recovery of Final True up of FY 2013-14, Provisional True Up for FY 2014-15, Annual Performance Review for FY 2015-16 and Aggregate Revenue Requirement for FY 2016-17 to FY 2018-19 and other claims as proposed by PED.
- 3) Review the provisional actual performance of FY 2014-15 and approve the Aggregate Revenue Requirement (ARR) and gap for FY 2014-15 based on the unaudited accounts. It is submitted that the audited accounts will be furnished to the Hon'ble Commission before issue of order.
- 4) Approve the Aggregate Revenue Requirement (ARR) for the Control Period i.e. FY 2016-17 to FY 2018-19, Expected Revenue from Charges (ERC) for FY 2016-17 and the gap till FY 2016-17.
- 5) Approve the consolidated gap till FY 2016-17 as regulatory assets as proposed in the petition and allow the gap to be recovered during the control period through levy of additional surcharge.
- 6) To allow recovery of balance regulatory asset approved earlier upto FY 2012-13 during the MYT control period.
- 7) To allow cost related to past interest on security deposit into ARR of MYT Control Period of FY 2016-17 to FY 2018-19.
- 8) Grant approval for the schedule of tariff, charges for services and schedule of charges along with the surcharge as made in the petition for FY 2016-17.
- 9) To exempt PED from introducing Time of Day (ToD) Tariff in FY 2016-17 for HT

consumers.

10) Grant any other relief as the Hon'ble Commission may consider appropriate. The petitioner craves leave of the Hon'ble Commission to allow further submission, addition and alteration to this petition as may be necessary from time to time.

11) To pass any other Order as the Hon'ble Commission may deem fit and appropriate under the circumstances of the case and in the interest of justice.

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

Annexure I: REGULATORY FORMATS

Format 1 – Energy Demand (FY 2013-14 to FY 2015-16)

| Category of Consumer | FY 2013-14 (Actual) | | | FY 2014-15 (Provisional) | | | FY 2015-16 (Revised Estimates) | | |
|---|---------------------|---------------------------|-----------------|--------------------------|---------------------------|-----------------|--------------------------------|---------------------------|-----------------|
| | Consumers [No] | Connected load [HP / kVA] | Sales [MUs] | Consumers [No] | Connected load [HP / kVA] | Sales [MUs] | Consumers [No] | Connected load [HP / kVA] | Sales [MUs] |
| Domestic | 272,198 | - | 600.00 | 286,495 | - | 635.22 | 294,202 | - | 679.02 |
| Hut services | 35,537 | - | 12.09 | 35,539 | - | 10.00 | 35,539 | - | 10.00 |
| Commercial | 45,311 | - | 181.00 | 46,938 | - | 182.22 | 48,173 | - | 193.04 |
| Agriculture | 6,810 | 59,538 | 57.00 | 6,849 | 59,538 | 57.00 | 6,849 | 44,654 | 57.00 |
| Public lighting | 49,524 | - | 26.00 | 49,893 | - | 26.00 | 50,055 | - | 27.24 |
| Industrial | 6,253 | - | 174.50 | 6,338 | - | 164.05 | 6,504 | - | 169.01 |
| Water tanks | 85 | - | 51.60 | 85 | - | 34.85 | 113 | - | 35.90 |
| Temporary supply | - | - | 10.10 | - | - | 6.12 | - | - | 8.28 |
| Total LT | 415,718 | 59,538 | 1,112.29 | 432,137 | 59,538 | 1,115.46 | 441,435 | 44,654 | 1,179.50 |
| Industrial | 363 | 270,500 | 815.45 | 337 | 234,717 | 805.16 | 347 | 241,634 | 841.42 |
| Commercial | 71 | 20,450 | 62.56 | 75 | 21,160 | 70.13 | 80 | 21,583 | 73.12 |
| Government Establishment and Water Tank | 49 | 18,500 | 48.77 | 53 | 19,186 | 55.96 | 53 | 19,570 | 58.58 |
| Industrial EHT | 7 | 90,500 | 326.65 | 7 | 83,997 | 319.60 | 7 | 85,677 | 320.44 |
| Total HT | 490 | 399,950 | 1,253.43 | 472 | 359,060 | 1,250.85 | 487 | 368,464 | 1,293.56 |
| Total metered | 373,861 | 399,950 | 2,296.63 | 390,221 | 359,060 | 2,299.31 | 399,534 | 368,464 | 2,406.07 |
| Total unmetered | 42,347 | 59,538 | 69.09 | 42,388 | 59,538 | 67.00 | 42,388 | 44,654 | 67.00 |
| Total | 416,208 | 459,488 | 2,365.72 | 432,609 | 418,598 | 2,366.31 | 441,922 | 413,118 | 2,473.07 |

Format 1 – Energy Demand (FY 2016-17 to FY 2018-19) MYT Control Period

| Category of Consumer | FY 2016-17 (Ensuing Year) | | | FY 2017-18 (Ensuing Year) | | | FY 2018-19 (Ensuing Year) | | |
|---|---------------------------|---------------------------|-----------------|---------------------------|---------------------------|-----------------|---------------------------|---------------------------|--------------|
| | Consumers [No] | Connected load [HP / kVA] | Sales [MUs] | Consumers [No] | Connected load [HP / kVA] | Sales [MUs] | Consumers [No] | Connected load [HP / kVA] | Sales [MUs] |
| Domestic | 307,421 | 506,829 | 819.46 | 321,112 | 530,206 | 891.74 | 335,412 | 554,691 | 970 |
| Hut services | 35,539 | 2,843 | 10.38 | 35,539 | 2,843 | 10.38 | 35,539 | 2,843 | 10 |
| Commercial | 49,754 | 109,627 | 207.32 | 51,460 | 119,092 | 217.71 | 53,224 | 130,876 | 229 |
| Agriculture | 6,836 | 44,654 | 57.00 | 6,836 | 44,654 | 57.00 | 6,836 | 44,654 | 57 |
| Public lighting | 50,824 | 6,058 | 28.17 | 51,297 | 6,119 | 29.32 | 51,774 | 6,181 | 31 |
| Industrial | 6,566 | 122,804 | 184.77 | 6,695 | 125,234 | 197.32 | 6,827 | 127,718 | 211 |
| Water tanks | 117 | | 39.25 | 120 | | 40.43 | 124 | | 42 |
| Temporary supply | - | - | - | - | - | - | - | - | - |
| Total LT | 457,057 | 792,815 | 1,346.35 | 473,059 | 828,148 | 1,443.90 | 489,736 | 866,963 | 1,549 |
| Industrial | 362 | 306,450 | 928.27 | 374 | 316,566 | 983.97 | 386 | 332,394 | 1,043 |
| Commercial | 81 | 26,648 | 80.72 | 83 | 27,527 | 85.56 | 86 | 28,904 | 91 |
| Government Establishment and Water Tank | 56 | 27,731 | 65.33 | 60 | 30,504 | 68.18 | 63 | 32,029 | 71 |
| Industrial EHT | 7 | 115,167 | 376.41 | 8 | 120,912 | 398.99 | 8 | 126,958 | 423 |
| Total HT | 506 | 475,996 | 1,450.73 | 525 | 495,509 | 1,536.70 | 543 | 520,285 | 1,628 |
| Total metered | 415,188 | 1,221,314 | 2,729.70 | 431,209 | 1,276,160 | 2,913.22 | 447,904 | 1,339,751 | 3,110 |
| Total unmetered | 42,375 | 47,497 | 67.38 | 42,375 | 47,497 | 67.38 | 42,375 | 47,497 | 67 |
| Total | 457,563 | 1,268,811 | 2,797.08 | 473,584 | 1,323,657 | 2,980.60 | 490,279 | 1,387,248 | 3,177 |

Format 2 - Information regarding Distribution Loss of Licensee

| S.No | Particulars | Calculation | Unit | Previous Year (Audit) | Current Year (Provisional) | Current Year (Revised est) | Ensuing Year (Projections) | | |
|------|--|------------------------|-----------|-----------------------|----------------------------|----------------------------|----------------------------|-----------------|-----------------|
| | | | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2017-18 |
| 1 | Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM | A | MU | 241.22 | 95.40 | 175.38 | 233.84 | 233.84 | 233.84 |
| 2 | Input energy (metered Import) received at interface points of DISCOM network. | B | MU | 2,661.63 | 2,681.35 | 2,677.11 | 2,881.38 | 3,079.38 | 3,290.80 |
| 3 | Input energy (metered Export) by the DISCOM at interface points of DISCOM network. | C | MU | (183.69) | (51.34) | (24.56) | | | |
| 5 | Total energy available for sale within the licensed area to the consumers of the DISCOM | D=A+B+C | MU | 2,719.17 | 2,725.41 | 2,827.93 | 3,115.22 | 3,313.22 | 3,524.64 |
| 6 | Energy billed to metered consumers within the licensed area of the DISCOM | E | MU | 2,296.63 | 2,299.31 | 2,406.07 | 2,729.70 | 2,913.22 | 3,109.66 |
| 7 | Energy billed to un-metered consumers within the licensed area of the DISCOM ** | F | MU | 69.09 | 67.00 | 67.00 | 67.38 | 67.38 | 67.38 |
| 8 | Power drawn by TNEB at Pondicherry periphery | F1 | | | 23.92 | 16.93 | | | |
| 9 | Savings under DELP scheme | F2 | | | | | 40.11 | 40.11 | 40.11 |
| 10 | Total energy billed | G=E+F+F1+F2 | MU | 2,365.72 | 2,390.23 | 2,490.00 | 2,756.97 | 2,940.49 | 3,136.93 |
| 11 | Amount billed to consumer within the licensed area of DISCOM (incl FPPCA) | H | Rs.Crs | 1,147.29 | 1,181.00 | 1,194.18 | 1,294.76 | 1,373.47 | 1,458.50 |
| 12 | Amount realized by the DISCOM out of the amount Billed at H | I | Rs.Crs | 1,050.93 | 1,157.70 | 1,134.47 | 1,230.03 | 1,318.53 | 1,414.74 |
| 13 | Collection efficiency (%) (= Revenue realized/ Amount billed) | J=(I/H)x100 | % | 91.60% | 98.03% | 95.00% | 95.00% | 96.00% | 97.00% |
| 14 | Energy realized by the DISCOM | K=L x G | MU | 2,167.03 | 2,343.08 | 2,365.50 | 2,619.12 | 2,822.87 | 3,042.82 |
| 15 | Distribution loss (%) | L={(D-G)/D}x100 | % | 13.00% | 12.30% | 11.95% | 11.50% | 11.25% | 11.00% |
| 16 | AT&C Loss (%) | M={(D-K)/D}x100 | % | 20.31% | 14.03% | 16.35% | 15.93% | 14.80% | 13.67% |

Format 3 – Energy Balance (in MUs)

| Sr. No. | Item | April-March (Actuals) | April-March (Provisional) | April-March (R.E.) | Ensuing Year (Projections) | | |
|---------|--|-----------------------|---------------------------|--------------------|----------------------------|-----------------|-----------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A) | Energy Requirement | | | | | | |
| 1 | Metered Sales | 2,296.63 | 2,299.31 | 2,406.07 | 2,729.70 | 2,913.22 | 3,109.66 |
| 2 | Unmetered Sales | 69.09 | 67.00 | 67.00 | 67.38 | 67.38 | 67.38 |
| 3 | Total Sales within the UT | 2,365.72 | 2,366.31 | 2,473.07 | 2,797.08 | 2,980.60 | 3,177.04 |
| 4 | Savings under DELP scheme | | | | 40.11 | 40.11 | 40.11 |
| 5 | Total Sales net of savings under DELP | 2,365.72 | 2,366.31 | 2,473.07 | 2,756.97 | 2,940.49 | 3,136.93 |
| 6 | Sales to common pool consumers / UI | 183.69 | 51.34 | 24.56 | - | - | |
| 7 | Sales outside State / UT | | | | | | |
| 8 | Sales to Electricity Traders / Power Exchange | | | | | | |
| 9 | Sales to other distribution licensees | | 23.92 | 16.93 | | | |
| 10 | Total Sales | 2,549.41 | 2,441.57 | 2,514.56 | 2,756.97 | 2,940.49 | 3,136.93 |
| 11 | T&D Losses | | | | | | |
| A | Loss(%) | 13.00% | 12.30% | 11.95% | 11.50% | 11.25% | 11.00% |
| B | Loss (MU) | 353.45 | 335.18 | 337.94 | 358.25 | 372.73 | 387.71 |
| 12 | Total Energy Requirement | 2,902.86 | 2,776.75 | 2,852.49 | 3,115.22 | 3,313.22 | 3,524.64 |
| | | | | | | | |
| B) | Energy Availability | | | | | | |
| 1 | Net thermal generation (Own+ IPP + Share from Central Stations) | 2,984.63 | 2,857.96 | 2,957.44 | 3,260.70 | 3,468.91 | 3,691.23 |
| 2 | Net hydel generation (own+shared) | | | | | | |
| 3 | Power purchase from Common Pool / UI / Traders / Exchange / Others | 26.33 | 50.64 | 28.99 | | | |
| 5 | Net Power Purchased (1+2+3) | 3,010.96 | 2,908.60 | 2,986.43 | 3,260.70 | 3,468.91 | 3,691.23 |
| 6 | Transmission Losses | 108.11 | 131.86 | 133.94 | 145.48 | 155.68 | 166.58 |
| 7 | Total Energy Availability (4-5-6) | 2,902.86 | 2,776.75 | 2,852.49 | 3,115.22 | 3,313.22 | 3,524.64 |

Format 4 – Power Purchase Cost for FY 2013-14

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Supplementary (Rs. Crore) | Total (Rs.Crore) |
|------------|---|---------------|-----------------------------|------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|---------------------------|------------------|
| | | | % | MW | | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | | |
| I | NTPC | 5,600 | 4.16% | 233 | 1,333.83 | 4.00% | 1,280.47 | 192.62 | 108.59 | 256.92 | 2.52 | 10.67 | 378.70 |
| | RSTPS Stage I & II | 2,100 | 5.20% | 109 | 623.49 | 4.00% | 598.55 | 208.67 | 39.23 | 130.11 | 0.42 | - | 169.75 |
| | RSTPS Stage –III | 500 | 5.40% | 27 | 136.49 | 4.00% | 131.03 | 261.15 | 14.15 | 35.64 | 0.09 | - | 49.88 |
| | Talcher Stage- II | 2,000 | 4.00% | 80 | 492.83 | 4.00% | 473.12 | 148.42 | 39.88 | 73.15 | 1.96 | - | 114.99 |
| | Simhadri Stage- II | 1,000 | 1.67% | 17 | 81.02 | 4.00% | 77.78 | 222.51 | 15.33 | 18.03 | 0.05 | - | 33.41 |
| | Other Charges | | | | | | | | - | - | - | 10.67 | 10.67 |
| II | NLC | 1,890 | 6.58% | 124 | 782.79 | 4.00% | 751.48 | 229.51 | 45.64 | 179.66 | 0.76 | 6.34 | 232.40 |
| | NLC TPS II Stage I & II | 1,470 | 7.29% | 107 | 664.55 | 4.00% | 637.97 | 230.61 | 32.92 | 153.25 | 0.15 | 5.59 | 191.92 |
| | NLC TPS I (Expn) | 420 | 4.08% | 17 | 118.25 | 4.00% | 113.52 | 223.36 | 12.71 | 26.41 | 0.61 | 0.75 | 40.48 |
| III | NPCIL | 2,320 | 3.71% | 86 | 311.27 | 4.00% | 298.82 | 271.36 | - | 84.47 | 0.11 | 1.56 | 86.14 |
| | MAPS | 440 | 1.90% | 8 | 32.23 | 4.00% | 30.94 | 231.05 | - | 7.45 | - | (0.01) | 7.44 |
| | KAPS Stage I | 880 | 4.40% | 39 | 245.62 | 4.00% | 235.79 | 300.69 | - | 73.85 | 0.08 | 0.99 | 74.92 |
| | Kudankulam | 1,000 | 3.90% | 39 | 33.43 | 4.00% | 32.09 | 94.72 | - | 3.17 | 0.03 | 0.58 | 3.78 |
| IV | Others | | | | 315.51 | 3.48% | 304.52 | 343.14 | 12.52 | 108.26 | 0.73 | 0.25 | 121.77 |
| | TNEB (Pondy) | | | | 14.64 | 4.00% | 14.06 | 347.03 | - | 5.08 | 0.00 | 0.25 | 5.34 |
| | TNEB (Karaikal) | | | | 222.29 | 4.00% | 213.40 | 347.00 | - | 77.13 | 0.00 | - | 77.14 |
| | Vallur Thermal Project | | | | 37.83 | 4.00% | 36.32 | 212.44 | 9.72 | 8.04 | (0.11) | - | 17.65 |
| | KSEB | | | | 40.75 | 0.00% | 40.75 | 442.00 | 2.80 | 18.01 | 0.83 | - | 21.64 |
| V | OVER/ UNDER DRAWAL | | | | 26.33 | 0.00% | 26.33 | 86.48 | - | 2.28 | - | - | 2.28 |
| B | Within State Generations | | | | | | | | | | | | |
| I | PPCL | 33 | 100.00% | 33 | 241.22 | 0.00% | 241.22 | 291.60 | 23.59 | 70.34 | 0.14 | 6.40 | 100.47 |
| C | OTHER CHARGES | | | | | | | - | - | - | 69.04 | | 69.04 |
| | <i>PGCIL Transmission Charges, Wheeling & Other Charges</i> | | | | | | | - | - | - | 67.25 | - | 67.25 |
| | <i>POSOCO</i> | | | | | | | - | - | - | 0.92 | - | 0.92 |
| | <i>PCKL</i> | | | | | | | - | - | - | 0.87 | - | 0.87 |
| D | RPO | | | | | | | | | | 15.71 | | 15.71 |
| E | Rebate | | | | | | | | | | (12.46) | | (12.46) |
| F | Total | 9,843 | 4.83% | 476 | 3,010.96 | 3.59% | 2,902.86 | 233.13 | 190.34 | 701.93 | 76.55 | 25.22 | 994.04 |

Format 4 – Power Purchase Cost for FY 2014-15

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Supplementary (Rs. Crore) | Total (Rs.Crore) |
|------------|--|------------------|-----------------------------|---------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|---------------------------|------------------|
| | | | % | MW | | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | | |
| I | NTPC | 5,600 | 3.63% | 203 | 1,051.78 | 4.97% | 999.46 | 195.41 | 77.58 | 205.53 | 4.04 | 2.44 | 289.59 |
| | RSTPS Stage I & II | 2,100 | 4.47% | 94 | 435.38 | 4.97% | 413.72 | 240.75 | 25.72 | 104.82 | 0.56 | | 131.10 |
| | RSTPS Stage –III | 500 | 4.74% | 24 | 68.01 | 4.97% | 64.62 | 250.66 | 7.48 | 17.05 | 0.07 | | 24.60 |
| | Talcher Stage- II | 2,000 | 3.44% | 69 | 515.80 | 4.97% | 490.14 | 146.05 | 36.62 | 75.33 | 3.18 | | 115.13 |
| | Simhadri Stage- II | 1,000 | 1.67% | 17 | 32.59 | 4.97% | 30.97 | 255.73 | 7.75 | 8.33 | 0.24 | | 16.33 |
| II | NLC | 1,890 | 6.50% | 123 | 812.25 | 4.97% | 771.85 | 219.31 | 58.59 | 178.14 | 1.58 | 1.59 | 239.90 |
| | NLC TPS II Stage I | 630 | 12.09% | 76 | 495.80 | 4.97% | 471.14 | 221.16 | 30.36 | 109.65 | 0.95 | 0.28 | 141.24 |
| | NLC TPS II Stage II | 840 | 3.53% | 30 | 190.14 | 4.97% | 180.68 | 221.16 | 11.87 | 42.05 | 0.34 | 0.84 | 55.11 |
| | NLC TPS I (Expn) | 420 | 4.06% | 17 | 126.31 | 4.97% | 120.03 | 209.30 | 16.36 | 26.44 | 0.29 | 0.47 | 43.55 |
| III | NPCIL | 2,320 | 3.56% | 83 | 415.47 | 4.97% | 394.81 | 267.37 | - | 111.09 | 3.38 | 1.68 | 116.15 |
| | MAPS | 440 | 1.82% | 8 | 40.20 | 4.97% | 38.20 | 202.59 | - | 8.14 | 0.13 | 0.07 | 8.34 |
| | KAPS | 880 | 4.32% | 38 | 239.06 | 4.97% | 227.17 | 298.32 | - | 71.32 | 1.05 | 1.27 | 73.64 |
| | Kudunkulam | 1,000 | 3.65% | 37 | 136.22 | 4.97% | 129.44 | 232.18 | - | 31.63 | 2.20 | 0.34 | 34.17 |
| IV | Others | 1,000 | 1.64% | 16 | 483.07 | 3.82% | 464.59 | 331.86 | 18.61 | 160.31 | 0.05 | (0.06) | 178.91 |
| | Others | | | | | | | | | | | | - |
| | TNEB (Pondy) | | | | - | | - | - | - | - | 0.00 | | 0.00 |
| | TNEB (Karaikal) | | | | 356.11 | 4.00% | 341.87 | 347.00 | - | 123.57 | 0.00 | | 123.57 |
| | Vallur Thermal Project | 1,000 | 1.64% | 16 | 85.04 | 4.97% | 80.81 | 194.07 | 15.67 | 16.50 | 0.03 | (0.18) | 32.02 |
| | KSEB | | | | 41.91 | 0.00% | 41.91 | 482.78 | 2.95 | 20.23 | 0.01 | 0.12 | 23.31 |
| V | OVER/ UNDER DRAWAL | | | | 50.64 | 0.00% | 50.64 | 115.31 | - | 5.84 | - | | 5.84 |
| B | Within State Generations | | | | | | | | | | | | - |
| I | PPCL | 33 | 100% | 33 | 95.40 | 0.00% | 95.40 | 285.96 | 12.55 | 27.28 | (0.98) | | 38.85 |
| C | OTHER CHARGES | | | | - | | | - | - | - | 65.29 | 7.51 | 72.80 |
| | PGCIL Transmission Charges, Wheeling & Other | | | | | | | | | | 63.53 | 7.23 | 70.76 |
| | POSOCO | | | | | | | | | | 0.88 | 0.07 | 0.95 |
| | PCKL | | | | | | | | | | 0.88 | 0.20 | 1.08 |
| D | RPO Compliance Cost | | | | | | | | | | 13.60 | | 13.60 |
| E | Rebate | | | | | | | | | | (15.19) | | (15.19) |
| F | Total | 10,842.50 | 4% | 457.37 | 2,908.60 | 4.53% | 2,776.75 | 236.60 | 167.33 | 688.18 | 71.78 | 13.16 | 940.45 |

Format 4 – Power Purchase Cost for FY 2015-16

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Supplementary (Rs. Crore) | Total (Rs.Crore) |
|------------|--|------------------|-----------------------------|---------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|---------------------------|------------------|
| | | | % | MW | | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | | |
| I | NTPC | 5,600 | 3% | 193 | 1,374.77 | 4.97% | 1,306.39 | 213.11 | 88.65 | 292.98 | 0.83 | 2.43 | 384.89 |
| | RSTPS Stage I & II | 2,100 | 4.23% | 89 | 657.43 | 4.97% | 624.73 | 246.15 | 31.72 | 161.83 | 0.06 | 0.76 | 194.37 |
| | RSTPS Stage –III | 500 | 4.50% | 23 | 166.85 | 4.97% | 158.56 | 246.37 | 9.28 | 41.11 | 0.02 | 1.23 | 51.64 |
| | Talcher Stage- II | 2,000 | 3.28% | 66 | 439.59 | 4.97% | 417.72 | 140.22 | 35.70 | 61.64 | 0.75 | 0.49 | 98.58 |
| | Simhadri Stage- II | 1,000 | 1.63% | 16 | 110.89 | 4.97% | 105.38 | 256.12 | 11.94 | 28.40 | 0.01 | (0.05) | 40.30 |
| II | NLC | 2,890 | 5% | 153 | 1,038.93 | 4.97% | 987.26 | 231.37 | 73.32 | 240.37 | 0.45 | 1.94 | 316.09 |
| | NLC TPS II Stage I | 630 | 13.07% | 82 | 550.77 | 4.97% | 523.38 | 233.57 | 34.32 | 128.64 | 0.25 | 1.52 | 164.74 |
| | NLC TPS II Stage II | 840 | 3.69% | 31 | 211.60 | 4.97% | 201.08 | 233.58 | 12.70 | 49.43 | 0.00 | 0.00 | 62.13 |
| | NLC TPS I (Expn) | 420 | 4.07% | 17 | 121.29 | 4.97% | 115.25 | 220.29 | 18.07 | 26.72 | 0.17 | 0.41 | 45.37 |
| | NLC TPS II (Expn) | 500 | 3.53% | 18 | 118.28 | 4.97% | 112.40 | 218.29 | 5.79 | 25.82 | 0.03 | - | 31.64 |
| | NTPL | 500 | 1.08% | 5 | 36.99 | 4.97% | 35.15 | 264.01 | 2.44 | 9.77 | 0.01 | | 12.21 |
| III | NPCIL | 2,320 | 3% | 76 | 329.02 | 4.97% | 312.65 | 301.28 | | 99.13 | 4.34 | 2.01 | 105.49 |
| | MAPS | 440 | 1.79% | 8 | 39.55 | 4.97% | 37.59 | 202.69 | | 8.02 | 0.17 | 0.04 | 8.23 |
| | KAPS Stage I | 440 | 4.20% | 18 | 109.62 | 4.97% | 104.17 | 298.37 | | 32.71 | 0.70 | 1.36 | 34.77 |
| | KAPS Stage II | 440 | 3.75% | 17 | 95.33 | 4.97% | 90.59 | 298.37 | | 28.44 | 0.55 | | 28.99 |
| | Kudankulam | 1,000 | 3.35% | 34 | 84.52 | 4.97% | 80.31 | 354.48 | | 29.96 | 2.93 | 0.62 | 33.50 |
| IV | Others | 1,000 | 2% | 16 | 387.79 | 3.83% | 372.94 | 324.64 | 22.76 | 125.89 | 0.14 | 0.05 | 148.84 |
| | TNEB (Karaikal) | | | - | 237.54 | 4.00% | 228.04 | 347.00 | | 82.43 | 0.00 | | 82.43 |
| | Vallur Thermal Project | 1,000 | 1.64% | 16 | 107.46 | 4.97% | 102.12 | 201.41 | 19.78 | 21.64 | 0.03 | 0.05 | 41.50 |
| | KSEB | - | | | 42.79 | 0.00% | 42.79 | 510.00 | 2.98 | 21.82 | 0.11 | | 24.91 |
| V | OVER/ UNDER DRAWAL | | | | 28.99 | 0.00% | 28.99 | | | 3.68 | | | 3.68 |
| B | Within State Generations | | | | | | | | | | | | |
| | PPCL | 33 | 100% | 33 | 233.84 | 0.00% | 175.38 | 350.51 | 19.41 | 81.96 | | | 101.37 |
| C | OTHER CHARGES | | | | - | | | | - | - | 57.82 | 2.93 | 60.74 |
| | PGCIL Transmission Charges, Wheeling & Other Charges | - | - | - | | | | | | | 56.86 | 2.75 | 59.61 |
| | POSO | | | | | | | | | | 0.77 | | 0.77 |
| | PCKL | | | | | | | | | | 0.18 | 0.17 | 0.36 |
| D | RPO Compliance Cost | | | | | | | | | | 33.40 | | 33.40 |
| E | Rebate | | | | | | | | | | (8.82) | | (8.82) |
| F | Total | 11,842.50 | 4% | 471.97 | 3,364.35 | 6% | 3,154.62 | 249.78 | 204.14 | 840.33 | 88.16 | 9.36 | 1,145.67 |

Format 4 – Power Purchase Cost for FY 2016-17

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Total (Rs.Crore) |
|------------|--|---------------|-----------------------------|------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|------------------|
| | | | % | MW | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | |
| I | NTPC | 5,600 | 3% | 193 | 1,374.77 | 4.97% | 1,306.39 | 213.11 | 88.65 | 292.98 | - | 381.62 |
| | RSTPS Stage I & II | 2,100 | 4.23% | 89 | 657.43 | 4.97% | 624.73 | 246.15 | 31.72 | 161.83 | | 193.55 |
| | RSTPS Stage –III | 500 | 4.50% | 23 | 166.85 | 4.97% | 158.56 | 246.37 | 9.28 | 41.11 | | 50.39 |
| | Talcher Stage- II | 2,000 | 3.28% | 66 | 439.59 | 4.97% | 417.72 | 140.22 | 35.70 | 61.64 | | 97.34 |
| | Simhadri Stage- II | 1,000 | 1.63% | 16 | 110.89 | 4.97% | 105.38 | 256.12 | 11.94 | 28.40 | | 40.34 |
| II | NLC | 3,390 | 5% | 159 | 1,075.92 | 4.97% | 1,022.41 | 232.49 | 73.32 | 250.14 | - | 323.46 |
| | NLC TPS II Stage I | 630 | 13.07% | 82 | 550.77 | 4.97% | 523.38 | 233.57 | 34.32 | 128.64 | | 162.97 |
| | NLC TPS II Stage II | 840 | 3.69% | 31 | 211.60 | 4.97% | 201.08 | 233.58 | 12.70 | 49.43 | | 62.12 |
| | NLC TPS I (Expn) | 420 | 4.07% | 17 | 121.29 | 4.97% | 115.25 | 220.29 | 18.07 | 26.72 | | 44.79 |
| | NLC TPS II (Expn) | 500 | 3.53% | 18 | 118.28 | 4.97% | 112.40 | 218.29 | 5.79 | 25.82 | | 31.61 |
| | NTPL | 1,000 | 1.08% | 11 | 73.98 | 4.97% | 70.30 | 264.01 | 2.44 | 19.53 | | 21.97 |
| III | NPCIL | 3,320 | 3% | 110 | 582.57 | 4.97% | 553.59 | 324.43 | - | 189.01 | - | 189.01 |
| | MAPS | 440 | 1.79% | 8 | 39.55 | 4.97% | 37.59 | 202.69 | | 8.02 | | 8.02 |
| | KAPS Stage I | 440 | 4.20% | 18 | 109.62 | 4.97% | 104.17 | 298.37 | | 32.71 | | 32.71 |
| | KAPS Stage II | 440 | 3.75% | 17 | 95.33 | 4.97% | 90.59 | 298.37 | | 28.44 | | 28.44 |
| | Kudankulam | 2,000 | 3.35% | 67 | 338.07 | 4.97% | 321.25 | 354.48 | | 119.84 | | 119.84 |
| IV | Others | 1,000 | 2% | 16 | 458.28 | 3.87% | 440.56 | 327.62 | 22.76 | 150.14 | - | 172.90 |
| | TNEB (Karaikal) | | | | 309.33 | 4.00% | 296.96 | 347.00 | - | 107.34 | | 107.34 |
| | Vallur Thermal Project | 1,000 | 1.64% | 16 | 107.46 | 4.97% | 102.12 | 201.41 | 19.78 | 21.64 | | 41.42 |
| | KSEB | - | | | 41.49 | 0.00% | 41.49 | 510.00 | 2.98 | 21.16 | | 24.14 |
| V | OVER/ UNDER DRAWAL | | | | | | | | | | | |
| B | Within State Generations | | | | | | | | | | | - |
| | PPCL | 33 | 100% | 33 | 233.84 | 0.00% | 233.84 | 350.51 | 19.41 | 81.96 | | 101.37 |
| C | OTHER CHARGES | | | | - | | | - | - | - | 67.78 | 67.78 |
| | PGCIL Transmission Charges, Wheeling & Other Charges | - | - | - | | | | | | | 66.59 | 66.59 |
| | POSOCO | | | | | | | | | | 0.81 | 0.81 |
| | PCKL | | | | | | | | | | 0.38 | 0.38 |
| D | RPO Compliance Cost | | | | | | | | | | 22.31 | 22.31 |
| E | Rebate | | | | | | | | | | (17.03) | (17.03) |
| F | Total | 13,343 | 4% | 511 | 3,725.38 | 5% | 3,556.79 | 258.83 | 204.14 | 964.23 | 73.05 | 1,241.41 |

Format 4 – Power Purchase Cost for FY 2017-18

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Total (Rs.Crore) |
|------------|--|------------------|-----------------------------|---------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|------------------|
| | | | % | MW | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | |
| I | NTPC | 5,600 | 3% | 193 | 1,374.77 | 4.97% | 1,306.39 | 213.11 | 88.65 | 292.98 | - | 381.62 |
| | RSTPS Stage I & II | 2,100 | 4.23% | 89 | 657.43 | 4.97% | 624.73 | 246.15 | 31.72 | 161.83 | | 193.55 |
| | RSTPS Stage –III | 500 | 4.50% | 23 | 166.85 | 4.97% | 158.56 | 246.37 | 9.28 | 41.11 | | 50.39 |
| | Talcher Stage- II | 2,000 | 3.28% | 66 | 439.59 | 4.97% | 417.72 | 140.22 | 35.70 | 61.64 | | 97.34 |
| | Simhadri Stage- II | 1,000 | 1.63% | 16 | 110.89 | 4.97% | 105.38 | 256.12 | 11.94 | 28.40 | | 40.34 |
| II | NLC | 2,390 | 7% | 159 | 1,075.92 | 4.97% | 1,022.41 | 232.49 | 73.32 | 250.14 | - | 323.46 |
| | NLC TPS II Stage I | 630 | 13.07% | 82 | 550.77 | 4.97% | 523.38 | 233.57 | 34.32 | 128.64 | | 162.97 |
| | NLC TPS II Stage II | 840 | 3.69% | 31 | 211.60 | 4.97% | 201.08 | 233.58 | 12.70 | 49.43 | | 62.12 |
| | NLC TPS I (Expn) | 420 | 4.07% | 17 | 121.29 | 4.97% | 115.25 | 220.29 | 18.07 | 26.72 | | 44.79 |
| | NLC TPS II (Expn) | 500 | 3.53% | 18 | 118.28 | 4.97% | 112.40 | 218.29 | 5.79 | 25.82 | | 31.61 |
| | NTPL | 1,000 | 1.08% | 11 | 73.98 | 4.97% | 70.30 | 264.01 | 2.44 | 19.53 | | 21.97 |
| III | NPCIL | 3,320 | 3% | 110 | 582.57 | 4.97% | 553.59 | 324.43 | - | 189.01 | - | 189.01 |
| | MAPS | 440 | 1.79% | 8 | 39.55 | 4.97% | 37.59 | 202.69 | - | 8.02 | | 8.02 |
| | KAPS Stage I | 440 | 4.20% | 18 | 109.62 | 4.97% | 104.17 | 298.37 | - | 32.71 | | 32.71 |
| | KaPS Stage II | 440 | 3.75% | 17 | 95.33 | 4.97% | 90.59 | 298.37 | - | 28.44 | | 28.44 |
| | Kudankulam | 2,000 | 3.35% | 67 | 338.07 | 4.97% | 321.25 | 354.48 | - | 119.84 | | 119.84 |
| IV | Others | 1,000 | 2% | 16 | 468.80 | 3.86% | 450.71 | 328.49 | 22.76 | 154.00 | - | 176.75 |
| | TNEB (Karaikal) | - | | - | 318.61 | 4.00% | 305.86 | 347.00 | - | 110.56 | | 110.56 |
| | Vallur Thermal Project | 1,000 | 1.64% | 16 | 107.46 | 4.97% | 102.12 | 201.41 | 19.78 | 21.64 | | 41.42 |
| | KSEB | - | | - | 42.73 | 0.00% | 42.73 | 510.00 | 2.98 | 21.79 | | 24.77 |
| V | OVER/ UNDER DRAWAL | | | | | | | | | | | |
| B | Within State Generations | | | | | | | | | | | |
| | PPCL | 33 | 100% | 33 | 233.84 | 0.00% | 233.84 | 350.51 | 19.41 | 81.96 | | 101.37 |
| C | OTHER CHARGES | | | | | | | | | | 71.38 | 71.38 |
| | PGCIL Transmission Charges, Wheeling & Other Charges | | | | | | | | | | 70.13 | 70.13 |
| | POSOCO | | | | | | | | | | 0.85 | 0.85 |
| | PCKL | | | | | | | | | | 0.40 | 0.40 |
| D | RPO Compliance Cost | | | | | | | | | | 28.17 | 28.17 |
| E | Rebate | | | | | | | | | | (18.12) | (18.12) |
| F | Total | 12,342.50 | 0.04 | 510.87 | 3,735.91 | 0.05 | 3,566.95 | 259.13 | 204.14 | 968.08 | 81.42 | 1,253.64 |

Format 4 – Power Purchase Cost for FY 2018-19

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Total (Rs.Crore) |
|------------|--|------------------|-----------------------------|---------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|------------------|
| | | | % | MW | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | |
| I | NTPC | 5,600 | 3% | 193 | 1,374.77 | 5% | 1,306.39 | 213.11 | 88.65 | 292.98 | - | 381.62 |
| | RSTPS Stage I & II | 2,100 | 4.23% | 89 | 657.43 | 5% | 624.73 | 246.15 | 31.72 | 161.83 | | 193.55 |
| | RSTPS Stage –III | 500 | 4.50% | 23 | 166.85 | 5% | 158.56 | 246.37 | 9.28 | 41.11 | | 50.39 |
| | Talcher Stage- II | 2,000 | 3.28% | 66 | 439.59 | 5% | 417.72 | 140.22 | 35.70 | 61.64 | | 97.34 |
| | Simhadri Stage- II | 1,000 | 1.63% | 16 | 110.89 | 5% | 105.38 | 256.12 | 11.94 | 28.40 | | 40.34 |
| II | NLC | 3,390 | 5% | 159 | 1,075.92 | 5% | 1,022.41 | 232.49 | 73.32 | 250.14 | - | 323.46 |
| | NLC TPS II Stage I | 630 | 13.07% | 82 | 550.77 | 5% | 523.38 | 233.57 | 34.32 | 128.64 | | 162.97 |
| | NLC TPS II Stage II | 840 | 3.69% | 31 | 211.60 | 5% | 201.08 | 233.58 | 12.70 | 49.43 | | 62.12 |
| | NLC TPS I (Expn) | 420 | 4.07% | 17 | 121.29 | 5% | 115.25 | 220.29 | 18.07 | 26.72 | | 44.79 |
| | NLC TPS II (Expn) | 500 | 3.53% | 18 | 118.28 | 5% | 112.40 | 218.29 | 5.79 | 25.82 | | 31.61 |
| | NTPL | 1,000 | 1.08% | 11 | 73.98 | 5% | 70.30 | 264.01 | 2.44 | 19.53 | | 21.97 |
| III | NPCIL | 3,320 | 3% | 110 | 582.57 | 5% | 553.59 | 324.43 | - | 189.01 | - | 189.01 |
| | MAPS | 440 | 1.79% | 8 | 39.55 | 5% | 37.59 | 202.69 | | 8.02 | | 8.02 |
| | KAPS Stage I | 440 | 4.20% | 18 | 109.62 | 5% | 104.17 | 298.37 | | 32.71 | | 32.71 |
| | KAPS Stage II | 440 | 3.75% | 17 | 95.33 | 5% | 90.59 | 298.37 | | 28.44 | | 28.44 |
| | Kudankulam | 2,000 | 3.35% | 67 | 338.07 | 5% | 321.25 | 354.48 | | 119.84 | | 119.84 |
| IV | Others | 1,000 | 0% | 16 | 479.64 | 4% | 461.17 | 329.34 | 22.76 | 157.97 | - | 180.72 |
| | TNEB (Karaikal) | - | | - | 328.17 | 4% | 315.04 | 347.00 | - | 113.87 | | 113.87 |
| | Vallur Thermal Project | 1,000 | 1.64% | 16 | 107.46 | 5% | 102.12 | 201.41 | 19.78 | 21.64 | | 41.42 |
| | KSEB | - | | - | 44.02 | 0% | 44.02 | 510.00 | 2.98 | 22.45 | | 25.43 |
| V | OVER/ UNDER DRAWAL | | | | | | | | | | | |
| B | Within State Generations | | | | | | | | | | | |
| | PPCL | 33 | 100% | 33 | 233.84 | 0% | 233.84 | 350.51 | 19.41 | 81.96 | | 101.37 |
| C | OTHER CHARGES | | | | | | | | | | 75.17 | 75.17 |
| | PGCIL Transmission Charges, Wheeling & Other Charges | | | | | | | | | | 73.87 | 73.87 |
| | POSOCO | | | | | | | | | | 0.89 | 0.89 |
| | PCKL | | | | | | | | | | 0.42 | 0.42 |
| D | RPO Compliance Cost | | | | | | | | | | 33.91 | 33.91 |
| E | Rebate | | | | | | | | | | (19.28) | (19.28) |
| F | Total | 13,342.50 | 0.04 | 510.87 | 3,746.75 | 4.52% | 3,577.40 | 259.44 | 204.14 | 972.05 | 89.81 | 1,265.99 |

Format 4 A – Power Purchase Cost (Under MoD) for FY 2015-16

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Supplementary (Rs. Crore) | Total (Rs.Crore) |
|------------|--|------------------|-----------------------------|---------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|---------------------------|------------------|
| | | | % | MW | | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | | |
| I | NTPC | 5,600 | 3% | 193 | 1,058.99 | 4.97% | 1,006.32 | 202.40 | 88.65 | 214.34 | 0.83 | 2.43 | 306.25 |
| | RSTPS Stage I & II | 2,100 | 4.23% | 89 | 554.97 | 4.97% | 527.36 | 246.15 | 31.72 | 136.60 | 0.06 | 0.76 | 169.15 |
| | RSTPS Stage –III | 500 | 4.50% | 23 | 41.51 | 4.97% | 39.45 | 246.37 | 9.28 | 10.23 | 0.02 | 1.23 | 20.76 |
| | Talcher Stage- II | 2,000 | 3.28% | 66 | 439.59 | 4.97% | 417.72 | 140.22 | 35.70 | 61.64 | 0.75 | 0.49 | 98.58 |
| | Simhadri Stage- II | 1,000 | 1.63% | 16 | 22.93 | 4.97% | 21.79 | 256.12 | 11.94 | 5.87 | 0.01 | (0.05) | 17.77 |
| II | NLC | 2,890 | 5% | 130 | 1,006.26 | 4.97% | 956.21 | 230.31 | 73.32 | 231.75 | 0.45 | 1.94 | 307.46 |
| | NLC TPS II Stage I | 630 | 13.07% | 82 | 550.77 | 4.97% | 523.38 | 233.57 | 34.32 | 128.64 | 0.25 | 1.52 | 164.74 |
| | NLC TPS II Stage II | 840 | 3.69% | 31 | 211.60 | 4.97% | 201.08 | 233.58 | 12.70 | 49.43 | 0.00 | 0.00 | 62.13 |
| | NLC TPS I (Expn) | 420 | 4.07% | 17 | 121.29 | 4.97% | 115.25 | 220.29 | 18.07 | 26.72 | 0.17 | 0.41 | 45.37 |
| | NLC TPS II (Expn) | 500 | 3.53% | 18 | 118.28 | 4.97% | 112.40 | 218.29 | 5.79 | 25.82 | 0.03 | - | 31.64 |
| | NTPL | 500 | 1.08% | 5 | 4.32 | 4.97% | 4.10 | 264.01 | 2.44 | 1.14 | 0.01 | - | 3.59 |
| III | NPICIL | 2,320 | 3% | 76 | 329.02 | 4.97% | 312.65 | 301.28 | - | 99.13 | 4.34 | 2.01 | 105.49 |
| | MAPS | 440 | 1.79% | 8 | 39.55 | 4.97% | 37.59 | 202.69 | - | 8.02 | 0.17 | 0.04 | 8.23 |
| | KAPS Stage I | 440 | 4.20% | 18 | 109.62 | 4.97% | 104.17 | 298.37 | - | 32.71 | 0.70 | 1.36 | 34.77 |
| | KAPS Stage II | 440 | 3.75% | 17 | 95.33 | 4.97% | 90.59 | 298.37 | - | 28.44 | 0.55 | - | 28.99 |
| | Kudankulam | 1,000 | 3.35% | 34 | 84.52 | 4.97% | 80.31 | 354.48 | - | 29.96 | 2.93 | 0.62 | 33.50 |
| IV | Others | 1,000.00 | 2% | 16.40 | 387.79 | 3.83% | 372.94 | 324.64 | 22.76 | 125.89 | 0.14 | 0.05 | 148.84 |
| | TNEB (Karaikal) | - | | - | 237.54 | 4.00% | 228.04 | 347.00 | - | 82.43 | 0.00 | - | 82.43 |
| | Vallur Thermal Project | 1,000 | 1.64% | 16 | 107.46 | 4.97% | 102.12 | 201.41 | 19.78 | 21.64 | 0.03 | 0.05 | 41.50 |
| | KSEB | - | | - | 42.79 | 0.00% | 42.79 | 510.00 | 2.98 | 21.82 | 0.11 | - | 24.91 |
| V | OVER/ UNDER DRAWAL | | | | 28.99 | 0.00% | 28.99 | | | 3.68 | | | 3.68 |
| B | Within State Generations | | | | | | | | | | | | |
| | PPCL | 33 | 100% | 33 | 175.38 | 0.00% | 175.38 | 350.51 | 19.41 | 61.47 | - | - | 80.88 |
| C | OTHER CHARGES | | | | | | | | | | 57.82 | 2.93 | 60.74 |
| | PGCIL Transmission, Wheeling & Other Charges | - | | - | - | 0.00% | - | - | - | - | 56.86 | 2.75 | 59.61 |
| | POSOCO | - | | - | - | 0.00% | - | - | - | - | 0.77 | - | 0.77 |
| | PCKL | - | | - | - | 0.00% | - | - | - | - | 0.18 | 0.17 | 0.36 |
| D | RPO Compliance Cost | | | | | | | | | | 33.40 | | 33.40 |
| E | Rebate | | | | | | | | | | (8.82) | | (8.82) |
| F | Total | 11,842.50 | 4% | 448.92 | 2,986.43 | 4% | 2,852.50 | 246.54 | 204.14 | 736.27 | 88.16 | 9.36 | 1,037.92 |

Format 4 A – Power Purchase Cost (Under MoD) for FY 2016-17

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Total (Rs.Crore) |
|------------|--|------------------|-----------------------------|---------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|------------------|
| | | | % | MW | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | |
| I | NTPC | 5,600 | 3.45% | 193 | 984.06 | 4.97% | 935.12 | 198.83 | 88.65 | 195.66 | - | 284.31 |
| | RSTPS Stage I & II | 2,100 | 4.23% | 89 | 544.49 | 4.97% | 517.40 | 246.15 | 31.72 | 134.03 | - | 165.74 |
| | RSTPS Stage –III | 500 | 4.50% | 23 | (0.00) | 4.97% | (0.00) | 246.37 | 9.28 | (0.00) | - | 9.28 |
| | Talcher Stage- II | 2,000 | 3.28% | 66 | 439.59 | 4.97% | 417.72 | 140.22 | 35.70 | 61.64 | - | 97.34 |
| | Simhadri Stage- II | 1,000 | 1.63% | 16 | (0.00) | 4.97% | (0.00) | 256.12 | 11.94 | (0.00) | - | 11.94 |
| II | NLC | 3,390 | 4.69% | 159 | 1,001.94 | 4.97% | 952.11 | 230.16 | 73.32 | 230.61 | - | 303.93 |
| | NLC TPS II Stage I | 630 | 13.07% | 82 | 550.77 | 4.97% | 523.38 | 233.57 | 34.32 | 128.64 | - | 162.97 |
| | NLC TPS II Stage II | 840 | 3.69% | 31 | 211.60 | 4.97% | 201.08 | 233.58 | 12.70 | 49.43 | - | 62.12 |
| | NLC TPS I (Expn) | 420 | 4.07% | 17 | 121.29 | 4.97% | 115.25 | 220.29 | 18.07 | 26.72 | - | 44.79 |
| | NLC TPS II (Expn) | 500 | 3.53% | 18 | 118.28 | 4.97% | 112.40 | 218.29 | 5.79 | 25.82 | - | 31.61 |
| | NTPL | 1,000 | 1.08% | 11 | 0.00 | 4.97% | 0.00 | 264.01 | 2.44 | 0.00 | - | 2.44 |
| III | NPCIL | 3,320 | 3.31% | 110 | 582.57 | 4.97% | 553.59 | 324.43 | - | 189.01 | - | 189.01 |
| | MAPS | 440 | 1.79% | 8 | 39.55 | 4.97% | 37.59 | 202.69 | - | 8.02 | - | 8.02 |
| | KAPS Stage I | 440 | 4.20% | 18 | 109.62 | 4.97% | 104.17 | 298.37 | - | 32.71 | - | 32.71 |
| | KAPS Stage II | 440 | 3.75% | 17 | 95.33 | 4.97% | 90.59 | 298.37 | - | 28.44 | - | 28.44 |
| | Kudankulam | 2,000 | 3.35% | 67 | 338.07 | 4.97% | 321.25 | 354.48 | - | 119.84 | - | 119.84 |
| IV | Others | 1,000.00 | 1.64% | 16.40 | 458.28 | 3.87% | 440.56 | 327.62 | 22.76 | 150.14 | - | 172.90 |
| | TNEB (Karaikal) | | | | 309.33 | 4.00% | 296.96 | 347.00 | - | 107.34 | - | 107.34 |
| | Vallur Thermal Project | 1,000 | 1.64% | 16 | 107.46 | 4.97% | 102.12 | 201.41 | 19.78 | 21.64 | - | 41.42 |
| | KSEB | | | | 41.49 | 0.00% | 41.49 | 510.00 | 2.98 | 21.16 | - | 24.14 |
| V | OVER/ UNDER DRAWAL | | | | | | | | | | | |
| B | Within State Generations | | | | | | | | | | | |
| | PPCL | 33 | 100% | 33 | 233.84 | 0.00% | 233.84 | 350.51 | 19.41 | 81.96 | - | 101.37 |
| C | OTHER CHARGES | | | | | | | | | | 67.78 | 67.78 |
| | PGCIL Transmission Charges, Wheeling & Other Charges | | | | | | | | | | 66.59 | 66.59 |
| | POSOCO | | | | | | | | | | 0.81 | 0.81 |
| | PCKL | | | | | | | | | | 0.38 | 0.38 |
| D | RPO Compliance Cost | | | | | | | | | | 22.31 | 22.31 |
| E | Rebate | | | | | | | | | | (17.03) | (17.03) |
| F | Total | 13,342.50 | 4% | 510.87 | 3,260.70 | 4% | 3,115.22 | 259.88 | 204.14 | 847.38 | 73.05 | 1,124.57 |

Format 4 A – Power Purchase Cost (Under MoD) for FY 2017-18

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Total (Rs.Crore) |
|------------|--|------------------|-----------------------------|---------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|------------------|
| | | | % | MW | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | |
| I | NTPC | 5,600 | 3.45% | 193 | 1,181.75 | 4.97% | 1,122.97 | 206.76 | 88.65 | 244.34 | | 332.99 |
| | RSTPS Stage I & II | 2,100 | 4.23% | 89 | 657.43 | 4.97% | 624.73 | 246.15 | 31.72 | 161.83 | | 193.55 |
| | RSTPS Stage –III | 500 | 4.50% | 23 | 84.73 | 4.97% | 80.52 | 246.37 | 9.28 | 20.87 | | 30.16 |
| | Talcher Stage- II | 2,000 | 3.28% | 66 | 439.59 | 4.97% | 417.72 | 140.22 | 35.70 | 61.64 | | 97.34 |
| | Simhadri Stage- II | 1,000 | 1.63% | 16 | (0.00) | 4.97% | (0.00) | 256.12 | 11.94 | (0.00) | | 11.94 |
| II | NLC | 2,390 | 6.65% | 159 | 1,001.94 | 4.97% | 952.11 | 230.16 | 73.32 | 230.61 | | 303.93 |
| | NLC TPS II Stage I | 630 | 13.07% | 82 | 550.77 | 4.97% | 523.38 | 233.57 | 34.32 | 128.64 | | 162.97 |
| | NLC TPS II Stage II | 840 | 3.69% | 31 | 211.60 | 4.97% | 201.08 | 233.58 | 12.70 | 49.43 | | 62.12 |
| | NLC TPS I (Expn) | 420 | 4.07% | 17 | 121.29 | 4.97% | 115.25 | 220.29 | 18.07 | 26.72 | | 44.79 |
| | NLC TPS II (Expn) | 500 | 3.53% | 18 | 118.28 | 4.97% | 112.40 | 218.29 | 5.79 | 25.82 | | 31.61 |
| | NTPL | 1,000 | 1.08% | 11 | 0.00 | 4.97% | 0.00 | 264.01 | 2.44 | 0.00 | | 2.44 |
| III | NPCIL | 3,320 | 3.31% | 110 | 582.57 | 4.97% | 553.59 | 324.43 | - | 189.01 | | 189.01 |
| | MAPS | 440 | 1.79% | 8 | 39.55 | 4.97% | 37.59 | 202.69 | - | 8.02 | | 8.02 |
| | KAPS Stage I | 440 | 4.20% | 18 | 109.62 | 4.97% | 104.17 | 298.37 | - | 32.71 | | 32.71 |
| | KAPS Stage II | 440 | 3.75% | 17 | 95.33 | 4.97% | 90.59 | 298.37 | - | 28.44 | | 28.44 |
| | Kudankulam | 2,000 | 3.35% | 67 | 338.07 | 4.97% | 321.25 | 354.48 | - | 119.84 | | 119.84 |
| IV | Others | 1,000.00 | 1.64% | 16.40 | 468.80 | 3.86% | 450.71 | 328.49 | 22.76 | 154.00 | | 176.75 |
| | TNEB (Karaikal) | | | | 318.61 | 4.00% | 305.86 | 347.00 | - | 110.56 | | 110.56 |
| | Vallur Thermal Project | 1,000 | 1.64% | 16 | 107.46 | 4.97% | 102.12 | 201.41 | 19.78 | 21.64 | | 41.42 |
| | KSEB | | | | 42.73 | 0.00% | 42.73 | 510.00 | 2.98 | 21.79 | | 24.77 |
| V | OVER/ UNDER DRAWAL | | | | | | | | | | | |
| B | Within State Generations | | | | | | | | | | | |
| | PPCL | 33 | 100.00% | 33 | 233.84 | 0.00% | 233.84 | 350.51 | 19.41 | 81.96 | - | 101.37 |
| C | OTHER CHARGES | | | | | | | | | | 71.38 | 71.38 |
| | PGCIL Transmission Charges, Wheeling & Other Charges | | | | | | | | | | 70.13 | 70.13 |
| | POSOCO | | | | | | | | | | 0.85 | 0.85 |
| | PCKL | | | | | | | | | | 0.40 | 0.40 |
| D | RPO Compliance Cost | | | | | | | | | | 28.17 | 28.17 |
| E | Rebate | | | | | | | | | | (18.12) | (18.12) |
| F | Total | 12,342.50 | 4% | 510.87 | 3,468.91 | 4% | 3,313.23 | 259.42 | 204.14 | 899.91 | 81.42 | 1,185.47 |

Format 4 A – Power Purchase Cost (Under MoD) for FY 2018-19

| Sr. No. | Source | Capacity (MW) | Firm allocation to Licensee | | Purchase (MU) | External losses (%) | Energy recd. by Licensee (MU) | VC (Ps/ Unit) | FC (Rs. Crore) | VC (Rs.Crore) | Others (Rs.Crore) | Total (Rs.Crore) |
|------------|--|------------------|-----------------------------|---------------|-----------------|---------------------|-------------------------------|---------------|----------------|---------------|-------------------|------------------|
| | | | % | MW | | | | | | | | |
| A | Central Sector Power Stations | | | | | | | | | | | |
| I | NTPC | 5,600 | 3.45% | 193 | 1,374.77 | 4.97% | 1,306.39 | 213.11 | 88.65 | 292.98 | - | 381.62 |
| | RSTPS Stage I & II | 2,100 | 4.23% | 89 | 657.43 | 4.97% | 624.73 | 246.15 | 31.72 | 161.83 | - | 193.55 |
| | RSTPS Stage –III | 500 | 4.50% | 23 | 166.85 | 4.97% | 158.56 | 246.37 | 9.28 | 41.11 | - | 50.39 |
| | Talcher Stage- II | 2,000 | 3.28% | 66 | 439.59 | 4.97% | 417.72 | 140.22 | 35.70 | 61.64 | - | 97.34 |
| | Simhadri Stage- II | 1,000 | 1.63% | 16 | 110.89 | 4.97% | 105.38 | 256.12 | 11.94 | 28.40 | - | 40.34 |
| II | NLC | 2,390 | 7% | 159 | 1,020.40 | 4.97% | 969.65 | 230.77 | 73.32 | 235.48 | - | 308.80 |
| | NLC TPS II Stage I | 630 | 13.07% | 82 | 550.77 | 4.97% | 523.38 | 233.57 | 34.32 | 128.64 | - | 162.97 |
| | NLC TPS II Stage II | 840 | 3.69% | 31 | 211.60 | 4.97% | 201.08 | 233.58 | 12.70 | 49.43 | - | 62.12 |
| | NLC TPS I (Expn) | 420 | 4.07% | 17 | 121.29 | 4.97% | 115.25 | 220.29 | 18.07 | 26.72 | - | 44.79 |
| | NLC TPS II (Expn) | 500 | 3.53% | 18 | 118.28 | 4.97% | 112.40 | 218.29 | 5.79 | 25.82 | - | 31.61 |
| | NTPL | 1,000 | 1.08% | 11 | 18.46 | 4.97% | 17.54 | 264.01 | 2.44 | 4.87 | - | 7.31 |
| III | NPICIL | 3,320 | 3% | 110 | 582.57 | 4.97% | 553.59 | 324.43 | - | 189.01 | - | 189.01 |
| | MAPS | 440 | 1.79% | 8 | 39.55 | 4.97% | 37.59 | 202.69 | - | 8.02 | - | 8.02 |
| | KAPS Stage I | 440 | 4.20% | 18 | 109.62 | 4.97% | 104.17 | 298.37 | - | 32.71 | - | 32.71 |
| | KAPS Stage II | 440 | 3.75% | 17 | 95.33 | 4.97% | 90.59 | 298.37 | - | 28.44 | - | 28.44 |
| | Kudankulam | 2,000 | 3.35% | 67 | 338.07 | 4.97% | 321.25 | 354.48 | - | 119.84 | - | 119.84 |
| IV | Others | 1,000.00 | 2% | 16.40 | 479.64 | 3.85% | 461.17 | 329.34 | 22.76 | 157.97 | - | 180.72 |
| | TNEB (Karaikal) | | | | 328.17 | 4.00% | 315.04 | 347.00 | - | 113.87 | - | 113.87 |
| | Vallur Thermal Project | 1,000 | 2% | 16 | 107.46 | 4.97% | 102.12 | 201.41 | 19.78 | 21.64 | - | 41.42 |
| | KSEB | | | | 44.02 | 0.00% | 44.02 | 510.00 | 2.98 | 22.45 | - | 25.43 |
| V | OVER/ UNDER DRAWAL | | | | | | | | | | | |
| B | Within State Generations | | | | | | | | | | | |
| | PPCL | 33 | 100% | 33 | 233.84 | 0.00% | 233.84 | 350.51 | 19.41 | 81.96 | - | 101.37 |
| C | OTHER CHARGES | | | | | | | | | | 75.17 | 75.17 |
| | PGCIL Transmission Charges, Wheeling & Other Charges | | | | | | | | | | 73.87 | 73.87 |
| | POSO | | | | | | | | | | 0.89 | 0.89 |
| | PCKL | | | | | | | | | | 0.42 | 0.42 |
| D | RPO Compliance Cost | | | | | | | | | | 33.91 | 33.91 |
| E | Rebate | | | | | | | | | | (19.28) | (19.28) |
| F | Total | 12,342.50 | 0.04 | 510.87 | 3,691.23 | 4.5% | 3,524.64 | 259.37 | 204.14 | 957.39 | 89.81 | 1,251.34 |

Format 4 A –Information Regarding RPO

| S.No | Description | Unit | Previous Year (Audit) | | | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Rev.Est) | Cumulative RPO to be purchased in Control Period | Ensuing Year (Projections) | | | | |
|------|--------------------------------------|----------------|-----------------------|--------------|--------------|-----------------------|-----------------------------|------------------------|--|----------------------------|---------------|---------------|--------------|--------------|
| | | | FY 2010-11 | FY 2011-12 | FY 2012-13 | FY 2013-14 | FY 2014-15 | FY 2015-16 | | FY 2016-17 | FY 2017-18 | FY 2018-19 | | |
| 1 | Sales Within State | MUs | 2,182.48 | 2,321.29 | 2,474.98 | 2,365.72 | 2,366.31 | 2,473.07 | | 2,797.08 | 2,980.60 | 3,177.04 | | |
| 2 | RPO Obligation | % | 1.00% | 2.00% | 3.00% | 3.00% | 3.30% | 3.55% | | 3.95% | 4.30% | 4.65% | | |
| | - Solar | % | 0.25% | 0.30% | 0.40% | 0.40% | 0.60% | 0.85% | | 1.15% | 1.50% | 1.85% | | |
| | - Non Solar | % | 0.75% | 1.70% | 2.60% | 2.60% | 2.70% | 2.70% | | 2.80% | 2.80% | 2.80% | | |
| 3 | RPO Obligation | MUs | 21.82 | 46.43 | 74.25 | 70.97 | 78.09 | 87.79 | | 110.48 | 128.17 | 147.73 | | |
| | - Solar | MUs | 5.46 | 6.96 | 9.90 | 9.46 | 14.20 | 21.02 | | 32.17 | 44.71 | 58.78 | | |
| | - Non Solar | MUs | 16.37 | 39.46 | 64.35 | 61.51 | 63.89 | 66.77 | | 78.32 | 83.46 | 88.96 | | |
| 4 | RPO Purchase | MUs | | | | | | | | | | | | |
| | - Solar | MUs | | | | | | 69.00 | | | | | | |
| | - Non Solar | MUs | | | 48.00 | 112.00 | 90.69 | 61.66 | | | | | | |
| 5 | Cumulative RPO Obligation | | | | | | | | | | | | | |
| | - Solar | MUs | 5.46 | 12.42 | 22.32 | 31.78 | 45.98 | (2.00) | (2.00) | (2.00) | | | | |
| | - Non Solar | MUs | 16.37 | 55.83 | 72.18 | 21.69 | (5.11) | 0.00 | 0.00 | | | | | |
| 6 | Floor Price of REC Certificates /MWH | | | | | | | | | | | | | |
| | - Solar | Rs./MWH | 9300 | | | | 3500 | | | | | | | |
| | - Non Solar | Rs./MWH | 1500 | | | | 1500 | | | | | | | |
| 7 | Amount for RPO Compliance | | | | | | | | | | | | | |
| | - Solar | Rs. Crs | | | | | | | | | 10.56 | 15.65 | 20.57 | |
| | - Non Solar | Rs. Crs | | | | | | | | | 0.00 | 11.75 | 12.52 | 13.34 |
| 8 | Total (Rs Crores) | Rs. Crs | | | | | | | | | 0.00 | 22.31 | 28.17 | 33.91 |

Format 6 – CAPITAL BASE AND RETURN

(Rs. Crore)

| Sr. No. | Particulars | Previous Year (Actuals) | Previous Year (Est.) | Current Year (Rev. Est) |
|---------|--|-------------------------|----------------------|-------------------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 |
| 1 | Gross block at beginning of the year | 555.30 | 563.59 | 633.98 |
| 2 | Opening CWIP | | | |
| 3 | Less accumulated depreciation | 251.25 | 274.63 | 300.55 |
| 4 | Less Opening Debt | | | |
| 4 | Net block at beginning of the year | 304.04 | 288.96 | 333.43 |
| 5 | Less accumulated consumer contribution | 8.00 | 9.92 | 17.71 |
| 6 | Net fixed assets at beginning of the year | 296.05 | 279.04 | 315.72 |
| 7 | Reasonable return @3% of NFA | 8.88 | 8.37 | 9.47 |

(Rs. Crore)

| Sr. No. | Particulars | R.E | Ensuing Year (Projection) | | |
|---------|--|---------------|---------------------------|---------------|---------------|
| | | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Gross block of the year | 697.28 | 787.81 | 943.95 | 1,087.81 |
| 2 | Less accumulated depreciation | 328.35 | 360.59 | 399.52 | 446.38 |
| 3 | Less accumulated consumer contribution | 17.71 | 17.71 | 17.71 | 17.71 |
| 4 | Net Capital Base of the year | 351.21 | 409.51 | 526.72 | 623.72 |
| 5 | Equity - 30% of Net Capital Base | 105.36 | 122.85 | 158.02 | 187.12 |
| 6 | Return on Equity - 16% | | 18.26 | 22.47 | 27.61 |

* - RoE for MYT control period in line with MYT Regulations 2014.

Format 6 A – DETAILS OF GFA / WIP AND CONSUMER CONTRIBUTION

| Sr. No. | Particulars | WIP | Fixed Assets |
|---------|---|---------------|-----------------|
| 1 | As on 31st March of Previous year (12-13) | 56.30 | 555.30 |
| | Add capital expenditure during FY 2013-14 | 54.98 | |
| | Add capitalised during FY 2013-14 | | 8.29 |
| | Total: | 111.28 | 563.59 |
| | Less transferred to fixed assets | 8.29 | |
| | Less: Deductions from Fixed assets | | - |
| 2 | As on 31st March of Previous year (13-14) | 102.99 | 563.59 |
| | Add capital expenditure during FY 2014-15 | 33.30 | |
| | Add capitalised during FY 2014-15 | | 70.39 |
| | Total: | 136.29 | 633.98 |
| | Less transferred to fixed assets | 70.39 | |
| 3 | As on 31st March of Current year (14-15) | 65.90 | 633.98 |
| | Add capital expenditure during FY 2015-16 | 105.48 | |
| | Add capitalised during FY 2015-16 | | 63.29 |
| | Total: | 171.38 | 697.28 |
| | Less transferred to fixed assets | 63.29 | |
| 4 | As on 31st March of ensuing year (15-16) | 108.08 | 697.28 |
| | Add capital expenditure during FY 2016-17 | 80.56 | |
| | Add capitalised during FY 2016-17 | | 90.53 |
| | Total: | 188.64 | 787.81 |
| | Less transferred to fixed assets | 90.53 | |
| 5 | As on 31st March of Ensuing year (16-17) | 98.11 | 787.81 |
| | Add capital expenditure during FY 2017-18 | 206.53 | |
| | Add capitalised during FY 2017-18 | | 156.14 |
| | Total: | 304.64 | 943.95 |
| | Less transferred to fixed assets | 156.14 | |
| 6 | As on 31st March of ensuing year (17-18) | 148.50 | 943.95 |
| | Add capital expenditure during FY 2018-19 | 102.09 | |
| | Add capitalised during FY 2018-19 | | 143.86 |
| | Total: | 250.59 | 1,087.81 |
| | Less transferred to fixed assets | 143.86 | |
| 7 | As on 31st March of ensuing year (18-19) | 106.73 | 1,087.81 |

6B - Details of Consumer contribution

| Sr. | Particulars | Amount |
|-----|--|---------------|
| A | Accumulated Depreciation | |
| 1 | As on 31st March of Previous year (12-13) | 251.25 |
| 2 | Add: Depreciation for Previous year (13-14) | 23.38 |
| 3 | As on 31st March of Previous year (13-14) | 274.63 |
| 4 | Add: Depreciation for current year (14-15) | 25.92 |
| 5 | As on 31st March of current year (14-15) | 300.55 |
| | | |
| B | Consumers Contribution | |
| 1 | As on 31st March of Previous year (12-13) | 8.00 |
| 2 | Add: Consumer Contribution for Previous year (13-14) | 1.92 |
| 3 | As on 31st March of Previous year (13-14) | 9.92 |
| 4 | Add: Consumer Contribution for current year (14-15) | 7.79 |
| 5 | As on 31st March of current year (14-15) | 17.71 |

Format 7 – COST OF FIXED ASSETS

(Rs. Crore)

| Sr. No. | Assets group | Value of assets at the beginning of previous year * | Addition during previous year | Value of assets sold/ disposed off | Closing balance at the end of previous year | Addition during previous year | Closing balance at the end of previous year | Addition during previous year | Closing balance at the end of previous year | Addition during previous year | Closing balance at the end of previous year | Addition during previous year | Closing balance at the end of previous year | Addition during previous year | Closing balance at the end of previous year |
|---------|--------------------------------|---|-------------------------------|------------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|
| | | 2013-14 | 2013-14 | 2013-14 | 2013-14 | 2014-15 | 2014-15 | 2015-16 | 2015-16 | 2016-17 | 2016-17 | 2017-18 | 2017-18 | 2018-19 | 2018-19 |
| 1 | Land and Land rights | 7.35 | | | 7.35 | | 7.35 | 0.90 | 8.25 | 1.59 | 9.84 | 0.66 | 10.50 | | 10.50 |
| 2 | Building | 17.37 | | | 17.37 | | 17.37 | | 17.37 | | 17.37 | | 17.37 | | 17.37 |
| 3 | Plant & Machinery | 302.35 | 6.96 | | 309.31 | 31.30 | 340.61 | 15.17 | 355.78 | 28.12 | 383.90 | 92.08 | 475.98 | 78.79 | 554.77 |
| 4 | Lines and Cables Network | 193.36 | 1.26 | | 194.62 | 39.02 | 233.64 | 38.66 | 272.31 | 51.58 | 323.88 | 58.52 | 382.40 | 63.40 | 445.80 |
| 5 | Vehicles | 1.89 | | | 1.89 | 0.05 | 1.94 | | 1.94 | | 1.94 | | 1.94 | | 1.94 |
| 6 | Furniture and Fixtures | 0.13 | | | 0.13 | 0.02 | 0.15 | | 0.15 | | 0.15 | | 0.15 | | 0.15 |
| 7 | Office Equipments | 0.84 | | | 0.84 | | 0.84 | | 0.84 | | 0.84 | | 0.84 | | 0.84 |
| 8 | IT Equipments | 1.93 | 0.07 | | 2.00 | | 2.00 | 4.80 | 6.80 | 4.23 | 11.03 | 0.69 | 11.72 | | 11.72 |
| 9 | Testing & Measuring Equipments | 3.32 | | | 3.32 | | 3.32 | 3.76 | 7.07 | 5.02 | 12.09 | 4.19 | 16.28 | 1.68 | 17.96 |
| 10 | SCADA Centre | 26.77 | | | 26.77 | | 26.77 | | 26.77 | | 26.77 | | 26.77 | | 26.77 |
| 11 | Others | - | | | - | | - | | - | | - | | - | | - |
| 20 | Total | 555.30 | 8.29 | - | 563.59 | 70.39 | 633.98 | 63.29 | 697.28 | 90.53 | 787.81 | 156.14 | 943.95 | 143.86 | 1,087.81 |

Format 8 – DETAILS OF WORK IN PROGRESS

(Rs, Crores)

| Sr. No. | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) | Ensuing Year (Projections) | | |
|---------|-----------------------------|-----------------------|-----------------------------|----------------------------|----------------------------|------------|------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Opening Balance | 56.30 | 102.99 | 65.90 | 108.08 | 98.11 | 148.50 |
| 2 | Add: New Investments | 54.98 | 33.30 | 105.48 | 80.56 | 206.53 | 102.09 |
| 3 | Total | 111.28 | 136.29 | 171.38 | 188.64 | 304.64 | 250.59 |
| 4 | Less Investment Capitalized | 8.29 | 70.39 | 63.29 | 90.53 | 156.14 | 143.86 |
| 5 | Closing Balance | 102.99 | 65.90 | 108.08 | 98.11 | 148.50 | 106.73 |

Format 9 – INTEREST CAPITALISED

(Rs, Crores)

| Sr. No. | Interest Capitalized | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Revised est) | Ensuing Year (Projections) | | |
|---------|---------------------------------------|-----------------------|-----------------------------|----------------------------|----------------------------|------------|------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | WIP | 102.99 | 65.90 | 108.08 | 98.11 | 148.50 | 106.73 |
| 2 | GFA* at the end of the year | 563.59 | 633.98 | 697.28 | 787.81 | 943.95 | 1,087.81 |
| 3 | WIP+GFA at the end of the year | 666.58 | 699.88 | 805.36 | 885.92 | 1,092.45 | 1,194.54 |
| 4 | Interest (excluding interest on WCL*) | 13.91 | 16.84 | 22.06 | 26.64 | 34.12 | 43.28 |
| 5 | Interest Capitalized | - | - | - | 2.51 | 2.96 | 5.42 |

*WIP:Works-in-Progress; GFA:Gross Fixed Assets; WCL:Working capital loan

Format 10 – DETAILS OF LOANS

Details of loans for FY 2013-14 (Actuals) (Rs. Crore)

| Sl. No. | Particulars (source) | Opening balance | Rate of interest * | Addition during the year | Repayment during the year | Closing balance | Amount of Interest paid |
|---------|---|-----------------|--------------------|--------------------------|---------------------------|-----------------|-------------------------|
| 1 | SLR Bonds | | | | | | |
| 2 | Non SLR Bonds | | | | | | |
| 3 | LIC | | | | | | |
| 4 | REC | | | | | - | - |
| 5 | Commercial Banks | | | | | | |
| 6 | Letter of Credit Charges | | | | | | |
| 7 | Lease rental | 9.71 | 8.22% | | 1.95 | 7.77 | 0.64 |
| 8 | PFC | 4.50 | 11.50% | 14.10 | | 18.60 | 0.52 |
| 9 | GPF | | | | | | |
| 10 | CSS | | | | | | |
| 11 | Working capital loan | | | | | | |
| 12 | Others | | | | | | |
| 13 | Total | 14.21 | | 14.10 | 1.95 | 26.37 | 1.16 |
| 14 | Add Govt. loan | | | | | | |
| | -State Govt. | | | | | | |
| | -Central Govt. | | | | | | |
| | Total | - | - | - | - | - | - |
| 15 | Total (13+14) | 14.21 | - | 14.10 | 1.95 | 26.37 | 1.16 |
| 16 | Less capitalization # | | | | | | |
| 17 | Net interest | 14.21 | - | 14.10 | 1.95 | 26.37 | 1.16 |
| 18 | Add prior period | | | | | | |
| 19 | Total interest | 14.21 | - | 14.10 | 1.95 | 26.37 | 1.16 |
| 20 | Finance charges | | | | | | 1.57 |
| 21 | Total Interest and Finance Charges | 14.21 | - | 14.10 | 1.95 | 26.37 | 2.73 |

Details of loans for FY 2014-15 (Provisional Actuals) (Rs. Crore)

| Sl. No. | Particulars (source) | Opening balance | Rate of interest * | Addition during the year | Repayment during the year | Closing balance | Amount of Interest paid |
|---------|---|-----------------|--------------------|--------------------------|---------------------------|-----------------|-------------------------|
| 1 | SLR Bonds | - | | | | | - |
| 2 | Non SLR Bonds | - | | | | | - |
| 3 | LIC | - | | | | | - |
| 4 | REC | - | | | | - | - |
| 5 | Commercial Banks | - | | | | | - |
| 6 | Letter of Credit Charges | - | | | | | - |
| 7 | Lease rental | 7.77 | 8.22% | | 1.49 | 6.28 | 0.53 |
| 8 | PFC / REC * | 18.60 | 11.50% | | - | 18.60 | 11.40 |
| 9 | PFC - Loan No.18003004 | - | | | | | - |
| 10 | PFC - Loan No.18233001 to 004 | - | | | | | - |
| 11 | Working capital loan | - | | | | | - |
| 12 | Others | - | | | | | - |
| 13 | Total | 26.37 | | - | 1.49 | 24.88 | 11.93 |
| 14 | Add Govt. loan | - | | | | | - |
| | -State Govt. | - | | | | | - |
| | -Central Govt. | - | | | | | - |
| | Total | - | - | - | - | - | - |
| 15 | Total (13+14) | 26.37 | | - | 1.49 | 24.88 | 11.93 |
| 16 | Less capitalization # | - | | | | | |
| 17 | Net interest | 26.37 | - | - | 1.49 | 24.88 | 11.93 |
| 18 | Add prior period | - | | | | | |
| 19 | Total interest | 26.37 | - | - | 1.49 | 24.88 | 11.93 |
| 20 | Finance charges | - | | | | | 1.96 |
| 21 | Total Interest and Finance Charges | 26.37 | - | - | 1.49 | 24.88 | 13.90 |

Details of loans for FY 2015-16 (Revised Estimates) (Rs. Crore)

| Sl. No. | Particulars (source) | Opening balance | Rate of interest * | Addition during the year | Repayment during the year | Closing balance | Amount of Interest paid |
|---------|---|-----------------|--------------------|--------------------------|---------------------------|-----------------|-------------------------|
| 1 | SLR Bonds | - | | | | - | - |
| 2 | Non SLR Bonds | - | | | | - | - |
| 3 | LIC | - | | | | - | - |
| 4 | REC | - | | | | - | - |
| 5 | Commercial Banks | - | | | | - | - |
| 6 | Letter of Credit Charges | - | | | | - | - |
| 7 | Lease rental | 6.28 | 8.22% | | 2.64 | 3.64 | 0.41 |
| 8 | PFC / REC * | 18.60 | 11.50% | 20.00 | | 38.60 | 3.29 |
| 9 | PFC - Loan No.18003004 | - | | | | - | - |
| 10 | PFC - Loan No.18233001 to 004 | - | | | | - | - |
| 11 | Working capital loan | - | | | | - | - |
| 12 | Others/ JICA | - | 6% | | | - | - |
| 13 | Total | 24.88 | | 20.00 | 2.64 | 42.24 | 3.70 |
| 14 | Add Govt. loan | - | | | | - | - |
| | -State Govt. | - | | | | - | - |
| | -Central Govt. | - | | | | - | - |
| | Total | - | - | - | - | - | - |
| 15 | Total (13+14) | 24.88 | | 20.00 | 2.64 | 42.24 | 3.70 |
| 16 | Less capitalization # | | | | | | |
| 17 | Net interest | 24.88 | | 20.00 | 2.64 | 42.24 | 3.70 |
| 18 | Add prior period | | | | | | |
| 19 | Total interest | 24.88 | - | 20.00 | 2.64 | 42.24 | 3.70 |
| 20 | Finance charges | | | | | | 2.06 |
| 21 | Total Interest and Finance Charges | 24.88 | - | 20.00 | 2.64 | 42.24 | 5.76 |

Details of loans for FY 2016-17 (Ensuing Year) (Rs. Crore)

| Sl. No. | Particulars (source) | Opening balance | Rate of interest * | Addition during the year | Repayment during the year | Closing balance | Amount of Interest paid |
|---------|---|-----------------|--------------------|--------------------------|---------------------------|-----------------|-------------------------|
| 1 | SLR Bonds | - | - | | | - | - |
| 2 | Non SLR Bonds | - | - | | | - | - |
| 3 | LIC | - | - | | | - | - |
| 4 | REC | - | - | | | - | - |
| 5 | Commercial Banks | - | - | | | - | - |
| 6 | Letter of Credit Charges | - | - | | | - | - |
| 7 | Lease rental | 3.64 | 8.22% | | 3.64 | - | 0.15 |
| 8 | PFC / REC * | 38.60 | 11.50% | 31.72 | | 70.32 | 6.26 |
| 9 | PFC - Loan No.18003004 | - | | | | - | - |
| 10 | PFC - Loan No.18233001 to 004 | - | | | | - | - |
| 11 | Working capital loan | - | | | | - | - |
| 12 | Others/JICA | - | 6% | | | - | - |
| 13 | Total | 42.24 | | 31.72 | 3.64 | 70.32 | 6.41 |
| 14 | Add Govt. loan | - | | | | | |
| | -State Govt. | - | | | | | |
| | -Central Govt. | - | | | | | |
| | Total | - | - | - | - | - | - |
| 15 | Total (13+14) | 42.24 | | 31.72 | 3.64 | 70.32 | 6.41 |
| 16 | Less capitalization # | | | | | | 2.51 |
| 17 | Net interest | 42.24 | | 31.72 | 3.64 | 70.32 | 3.91 |
| 18 | Add prior period | | | | | | |
| 19 | Total interest | 42.24 | - | 31.72 | 3.64 | 70.32 | 3.91 |
| 20 | Finance charges | | | | | | 2.17 |
| 21 | Total Interest and Finance Charges | 42.24 | - | 31.72 | 3.64 | 70.32 | 6.07 |

- Interest Capitalisation considered as 40% of the interest

Details of loans for FY 2017-18 (Ensuing Year) (Rs. Crore)

| Sl. No. | Particulars (source) | Opening balance | Rate of interest * | Addition during the year | Repayment during the year | Closing balance | Amount of Interest paid |
|---------|---|-----------------|--------------------|--------------------------|---------------------------|-----------------|-------------------------|
| 1 | SLR Bonds | - | - | | | - | - |
| 2 | Non SLR Bonds | - | - | | | - | - |
| 3 | LIC | - | - | | | - | - |
| 4 | REC | - | - | | | - | - |
| 5 | Commercial Banks | - | - | | | - | - |
| 6 | Letter of Credit Charges | - | - | | | - | - |
| 7 | Lease rental | - | 8.22% | | | - | - |
| 8 | PFC / REC * | 70.32 | 11.50% | 30.00 | | 100.32 | 9.81 |
| 9 | PFC - Loan No.18003004 | - | | | | - | - |
| 10 | PFC - Loan No.18233001 to 004 | - | | | | - | - |
| 11 | Working capital loan | - | | | | - | - |
| 12 | Others/JICA | - | 6% | 128.47 | | 128.47 | 3.85 |
| 13 | Total | 70.32 | | 158.47 | - | 228.79 | 13.67 |
| 14 | Add Govt. loan | - | | | | | |
| | -State Govt. | - | | | | | |
| | -Central Govt. | - | | | | | |
| | Total | - | - | - | - | - | - |
| 15 | Total (13+14) | 70.32 | | 158.47 | - | 228.79 | 13.67 |
| 16 | Less capitalization # | | | | | | 2.96 |
| 17 | Net interest | 70.32 | | 158.47 | - | 228.79 | 10.70 |
| 18 | Add prior period | | | | | | |
| 19 | Total interest | 70.32 | - | 158.47 | - | 228.79 | 10.70 |
| 20 | Finance charges | | | | | | 2.27 |
| 21 | Total Interest and Finance Charges | 70.32 | - | 158.47 | - | 228.79 | 12.98 |

- Interest Capitalisation considered as 40% of the interest and previous year interest added

Details of loans for FY 2018-19 (Ensuing Year) (Rs. Crore)

| Sl. No. | Particulars (source) | Opening balance | Rate of interest * | Addition during the year | Repayment during the year | Closing balance | Amount of Interest paid |
|---------|---|-----------------|--------------------|--------------------------|---------------------------|-----------------|-------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 |
| 1 | SLR Bonds | - | - | | | - | - |
| 2 | Non SLR Bonds | - | - | | | - | - |
| 3 | LIC | - | - | | | - | - |
| 4 | REC | - | - | | | - | - |
| 5 | Commercial Banks | - | 0.00% | | | - | - |
| 6 | Letter of Credit Charges | - | 0.00% | | | - | - |
| 7 | Lease rental | - | 8.22% | | | - | - |
| 8 | PFC / REC * | 100.32 | 11.50% | - | | 100.32 | 11.54 |
| 9 | PFC - Loan No.18003004 | - | 0.00% | | | - | - |
| 10 | PFC - Loan No.18233001 to 004 | - | 0.00% | | | - | - |
| 11 | Working capital loan | - | 0.00% | | | - | - |
| 12 | Others/JICA | 128.47 | 6.00% | 57.34 | | 185.81 | 9.43 |
| 13 | Total | 228.79 | | 57.34 | - | 286.13 | 20.97 |
| 14 | Add Govt. loan | - | | | | | |
| | -State Govt. | - | | | | | |
| | -Central Govt. | - | | | | | |
| | Total | - | - | - | - | - | - |
| 15 | Total (13+14) | 228.79 | | 57.34 | - | 286.13 | 20.97 |
| 16 | Less capitalization # | | | | | | 5.42 |
| 17 | Net interest | 228.79 | | 57.34 | - | 286.13 | 15.54 |
| 18 | Add prior period | | | | | | |
| 19 | Total interest | 228.79 | - | 57.34 | - | 286.13 | 15.54 |
| 20 | Finance charges | | | | | | 2.39 |
| 21 | Total Interest and Finance Charges | 228.79 | - | 57.34 | - | 286.13 | 17.93 |

- Interest Capitalisation considered as 40% of the interest and previous year interest added

Format 10A – NORMATIVE LOAN & INTEREST CALCULATION

| Sr. No. | Particulars | Previous Year (Actuals) | Previous Year (prov.) | Current Year (Rev. Est) | Ensuing Year (Projection) | | |
|---------|---|-------------------------|-----------------------|-------------------------|---------------------------|---------------|---------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Opening Normative Loan | 98.30 | 94.27 | 134.12 | 165.01 | 196.15 | 266.52 |
| 2 | Add: Normative Loan during the Year | 5.80 | 49.28 | 44.31 | 63.37 | 109.30 | 100.70 |
| 3 | Less: Normative Repayment | 9.83 | 9.43 | 13.41 | 32.24 | 38.93 | 46.86 |
| 4 | Closing Normative Loan | 94.27 | 134.12 | 165.01 | 196.15 | 266.52 | 320.36 |
| 4 | Average Normative Loan | 96.28 | 114.19 | 149.57 | 180.58 | 231.34 | 293.44 |
| 5 | Rate of Interest (@SBAR rate) | 14.45% | 14.75% | 14.75% | 14.75% | 14.75% | 14.75% |
| 6 | Interest on Normative Loan | 13.91 | 16.84 | 22.06 | 26.64 | 34.12 | 43.28 |
| 7 | Other Finance Charges | 1.57 | 1.96 | 2.06 | 2.17 | 2.27 | 2.39 |
| 8 | Total Interest & Finance Charges | 15.48 | 18.81 | 24.12 | 28.80 | 36.40 | 45.67 |

Format 11 – INFORMATION REGARDING RESTRUCTURING OF OUTSTANDING LOANS DURING THE FY 2013-14 TO FY 2018-19

| Sr. No. | Source of loan | Amount of original loan (Rs. Crores) | Old rate of interest | Amount already restructured | Revised rate of interest | Amount now being restructured (Rs. Crores) | New rate of interest |
|---------|----------------|--------------------------------------|----------------------|-----------------------------|--------------------------|--|----------------------|
| | | | | (Rs. Crores) | | | |
| 1 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

NIL

Format 12 – VALUE OF ASSETS AND DEPRECIATION CHARGES

(Rs.Crores)

| Sr. No. | Name of the Assets | Rate of Dep* | Previous Year (Actual) | | Provisional | | Revised Estimates | | Ensuing Year (Control Period) | | | | | |
|---------|--------------------------------|--------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|---|---------------|
| | | | FY 2013-14 | | FY 2014-15 | | FY 2015-16 | | FY 2016-17 | | FY 2017-18 | | FY 2018-19 | |
| | | | Assets value at the beginning of the year | Depn. charges | Assets value at the beginning of the year | Depn. charges | Assets value at the beginning of the year | Depn. charges | Assets value at the beginning of the year | Depn. charges | Assets value at the beginning of the year | Depn. charges | Assets value at the beginning of the year | Depn. charges |
| 1 | Land and Land rights | 0.00% | 7.35 | | 7.35 | | 7.35 | - | 8.25 | - | 9.84 | - | 10.50 | - |
| 2 | Building | 3.34% | 17.37 | 0.58 | 17.37 | 0.54 | 17.37 | 0.54 | 17.37 | 0.54 | 17.37 | 0.54 | 17.37 | 0.54 |
| 3 | Plant & Machinery | 5.28% | 302.35 | 13.57 | 309.31 | 14.44 | 340.61 | 14.85 | 355.78 | 15.99 | 383.90 | 19.16 | 475.98 | 23.67 |
| 4 | Lines and Cables Network | 5.28% | 193.36 | 7.54 | 194.62 | 9.33 | 233.64 | 10.35 | 272.31 | 12.73 | 323.88 | 15.64 | 382.40 | 18.86 |
| 5 | Vehicles | 9.50% | 1.89 | 0.07 | 1.89 | 0.04 | 1.94 | 0.04 | 1.94 | 0.04 | 1.94 | 0.04 | 1.94 | 0.04 |
| 6 | Furniture and Fixtures | 6.33% | 0.13 | 0.00 | 0.13 | 0.00 | 0.15 | 0.00 | 0.15 | 0.00 | 0.15 | 0.00 | 0.15 | 0.00 |
| 7 | Office Equipments | 6.33% | 0.84 | 0.04 | 0.84 | 0.03 | 0.84 | 0.03 | 0.84 | 0.03 | 0.84 | 0.03 | 0.84 | 0.03 |
| 8 | IT Equipments | 15.00% | 1.93 | 0.08 | 2.00 | 0.07 | 2.00 | 0.43 | 6.80 | 1.11 | 11.03 | 1.48 | 11.72 | 1.53 |
| 9 | Testing & Measuring Equipments | 5.28% | 3.32 | 0.16 | 3.32 | 0.15 | 3.32 | 0.25 | 7.07 | 0.48 | 12.09 | 0.73 | 16.28 | 0.88 |
| 10 | SCADA Centre | 6.33% | 26.77 | 1.32 | 26.77 | 1.31 | 26.77 | 1.31 | 26.77 | 1.31 | 26.77 | 1.31 | 26.77 | 1.31 |
| 11 | Others | | | | | | | - | | - | | - | | |
| | Total | | 555.30 | 23.38 | 563.59 | 25.92 | 633.98 | 27.80 | 697.28 | 32.24 | 787.81 | 38.93 | 943.95 | 46.86 |

Format 13 – REPAIR AND MAINTENANCE EXPENSES

(Rs. Crore)

| Sr. No | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) | Ensuing Year (Projections) | | |
|--------|--|-----------------------|-----------------------------|----------------------------|----------------------------|--------------|--------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2018-19 | FY 2017-19 |
| 1 | Plant & machinery | 7.36 | 2.92 | | | | |
| 2 | Building | | | | | | |
| 3 | Minor R&M works | 6.10 | 4.80 | | | | |
| 4 | Total | 13.46 | 7.71 | 16.99 | 20.06 | 22.66 | 27.15 |
| 5 | Add/Deduct share of others (To be specified) | | | | | | |
| 6 | Total expenses | 13.46 | 7.71 | 16.99 | 20.06 | 22.66 | 27.15 |
| 7 | Less : Capitalized | | | | | | |
| 8 | Net expenses | 13.46 | 7.71 | 16.99 | 20.06 | 22.66 | 27.15 |
| 9 | Add: prior period | | | | | | |
| 10 | Total expenses charged to revenue as R&M expenses | 13.46 | 7.71 | 16.99 | 20.06 | 22.66 | 27.15 |

Format 14 – NO. OF EMPLOYEES

| Sr. No. | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) | Ensuing Year (Projections) | | |
|---------|--|-----------------------|-----------------------------|----------------------------|----------------------------|-----------------|-----------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2018-19 | FY 2017-18 |
| 1 | Number of employees as on 1st April | 2,179.00 | 2,149.00 | 2,097.00 | 2,191.00 | 2,191.00 | 2,191.00 |
| 2 | Employees on deputation/ foreign service as on 1st April | 54.00 | | - | - | - | |
| 4 | Total number of employees as on 1st April (1+2) | 2,233.00 | 2,149.00 | 2,097.00 | 2,191.00 | 2,191.00 | 2,191.00 |
| 3 | Recruitment | - | - | 172.00 | | | |
| 5 | Number of employees retired/ retiring during the year | 84.00 | 52.00 | 78.00 | | | |
| 6 | Number of employees at the end of the year (4-5) | 2,149.00 | 2,097.00 | 2,191.00 | 2,191.00 | 2,191.00 | 2,191.00 |

Format 15 –EMPLOYEE COST

(Rs. Crore)

| Sr.No | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) | Ensuing Year (Projections) | | |
|-------|----------------------------------|--------------------------|--------------------------------|-------------------------------|----------------------------|--------------|--------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2018-19 | FY 2017-18 |
| | Salaries& Allowances | | | | | | |
| 1 | Salary | 82.67 | 87.78 | 91.33 | | | |
| 2 | Wages | 0.59 | 0.64 | 0.66 | | | |
| 3 | Stipend | 0.35 | 0.40 | 0.39 | | | |
| 4 | Transport Allowance | 0.62 | 0.47 | 0.69 | | | |
| 5 | Overtime allowance | 0.81 | 0.78 | 0.89 | | | |
| 6 | Total | 85.04 | 90.07 | 93.96 | 75.12 | 81.75 | 88.94 |
| 7 | Less: Add/Deduct share of others | 1.15 | 1.94 | 1.27 | | | |
| 8 | Total | 83.90 | 88.13 | 92.70 | 75.12 | 81.75 | 88.94 |
| 9 | Less: Amount capitalized | 11.20 | 12.21 | 12.38 | | | |
| 10 | Net amount | 72.70 | 75.93 | 80.32 | 75.12 | 81.75 | 88.94 |
| 11 | Add : prior period expenses | | | | | - | |
| 12 | Total Employee Expenses | 72.70 | 75.93 | 80.32 | 75.12 | 81.75 | 88.94 |

Format 16 –ADMINISTRATION AND GENERAL EXPENSES

(Rs. Crore)

| Sr. No. | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) | Ensuing Year (Projections) | | |
|---------|--|-----------------------|-----------------------------|----------------------------|----------------------------|-------------|-------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Rent, rates & taxes | 0.43 | 0.54 | 0.57 | | | |
| 2 | Other Professional charges including Regulatory Expenses (License + Petition Fees) | 2.43 | 2.54 | 2.67 | | | |
| 3 | Office Expenses including Legal, Professional & Special Service Charges | 1.77 | 2.66 | 2.80 | | | |
| 4 | Advertisement & Publicity | 0.24 | 0.30 | 0.32 | | | |
| 5 | Other A&G Charges | 0.04 | 0.04 | 0.04 | | | |
| 6 | Other professional charges | | - | - | | | |
| 7 | Conveyance & Travel expense | | - | - | | | |
| 8 | Electricity & water charges | | | - | | | |
| 9 | Others | 0.37 | 0.26 | 0.28 | | | |
| 10 | Freight | | | - | | | |
| 11 | Incentives to consumers | 1.17 | 4.54 | 4.77 | | | |
| 12 | Grant - in – Aid | 0.72 | | - | | | |
| 12 | Other material related expenses | 0.07 | 0.05 | 0.05 | | | |
| 13 | EESL Charges | | 3.65 | | | | |
| 14 | Total | 7.25 | 14.59 | 11.50 | 5.11 | 5.56 | 6.05 |
| 15 | Add/Deduct share of others (to be specified) | | | | | | |
| 16 | Total expenses | 7.25 | 14.59 | 11.50 | 5.11 | 5.56 | 6.05 |
| 17 | Less: Capitalized | | | | | | |
| 18 | Net expenses | 7.25 | 14.59 | 11.50 | 5.11 | 5.56 | 6.05 |
| 19 | Add: Prior period | | | | | | |
| 20 | Total A&G Expenses charged to revenue | 7.25 | 14.59 | 11.50 | 5.11 | 5.56 | 6.05 |

Format 17 – INFORMATION REGARDING BAD AND DOUBTFUL DEBTS

(Rs. Crore)

| Sr. No. | Particulars | Previous Year (Audit) | Current Year (Provisional) | Ensuing Year (Projections) | | |
|---------|--|-----------------------|----------------------------|----------------------------|------------|------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 |
| 1 | Amount of receivables (audited) | 532.12 | 551.93 | 551.93 | 551.93 | 551.93 |
| 2 | Bad and doubtful debts actually written-off in the books of accounts | | | | | |
| 3 | Provision made for debts in ARR | | 2.60 | | | |

Format 18 – INFORMATION REGARDING WORKING CAPITAL

(Rs. Crore)

| Sr. No. | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) |
|---------|---|-----------------------|-----------------------------|----------------------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 |
| 1 | Power Purchase Cost - 1 Month | 82.84 | 78.37 | 86.49 |
| 2 | Employee Cost - 1 Month | 6.06 | 6.33 | 6.69 |
| 3 | Administration & General Expenses - 1 Month | 0.60 | 1.22 | 0.96 |
| 4 | R&M Cost - 1 Month | 1.12 | 0.64 | 1.42 |
| 5 | Less: Security Deposit Opening Bal. | 95.90 | 123.48 | 144.79 |
| 6 | Total | (5.28) | (36.92) | (49.23) |
| 7 | Interest Rate * | 14.45% | 14.75% | 14.05% |
| 8 | Interest on working capital | - | - | - |

* - Working Capital for Previous and Current year as per JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009

| Sr. No. | Particulars | Ensuing Year (Projections) | | |
|---------|--|----------------------------|----------------|----------------|
| | | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Two Months Receivable | 219.40 | 234.52 | 250.09 |
| 2 | Power Purchase Cost for one month | 93.71 | 98.79 | 104.28 |
| 3 | Total Consumer Security Deposit | 187.41 | 208.72 | 230.04 |
| 4 | Consumer Security Deposit excluding Bank Guarantee/ Fixed Deposit Receipts | 187.41 | 208.72 | 230.04 |
| 5 | Inventory for two months based on Aggregate Revenue Requirement of previous year | 8.92 | 8.92 | 8.92 |
| 6 | Total (1-2-4+5) | (52.81) | (64.07) | (75.30) |
| 7 | Interest Rate * | 9.30% | 9.30% | 9.30% |
| 8 | Interest on working capital | - | - | - |

* - Working Capital for ensuing year as per MYT Regulations 2014

** - Inventory considered based on FY 2014-15 provisional figures for two months

Format 18A – INFORMATION ON SECURITY DEPOSIT FROM CONSUMERS

(Rs. Crore)

| Sr. No. | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Est.) | Ensuing Year (Projections) | | |
|---------|---------------------------------------|-----------------------|-----------------------------|---------------------|----------------------------|---------------|---------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Opening Security Deposit | 95.90 | 123.48 | 144.79 | 166.10 | 187.41 | 208.72 |
| 2 | Add: Deposits during the Year | 27.58 | 21.31 | 21.31 | 21.31 | 21.31 | 21.31 |
| 3 | Less: Deposits refunded | - | - | - | - | - | |
| 4 | Less: Deposits in form of BG/FDR | | | - | - | | |
| 5 | Closing Security Deposit | 123.48 | 144.79 | 166.10 | 187.41 | 208.72 | 230.04 |
| 6 | Bank Rate | 8.50% | 8.50% | 8.50% | 8.50% | 8.50% | 8.50% |
| 7 | Interest on Security Deposit * | 9.32 | 11.40 | 13.21 | 15.02 | 16.84 | 18.65 |

Format 18B – PROVISIONS OF INTEREST ON SECURITY DEPOSITS FROM CONSUMERS

(Rs. Crore)

| Sr. No. | Particulars | Previous Year (Audit) | | | | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Est.) |
|---------|---|-----------------------|-------------|--------------|--------------|-----------------------|-----------------------------|---------------------|
| | | FY 2009-10 | FY 2010-11 | FY 2011-12 | FY 2012-13 | FY 2013-14 | FY 2014-15 | FY 2015-16 |
| 1 | Opening Security Deposit | | | 64.25 | 73.03 | 95.90 | 123.48 | 144.79 |
| 2 | Add: Deposits during the Year | | | 8.78 | 22.87 | 27.58 | 21.31 | 21.31 |
| 3 | Less: Deposits refunded | | | - | - | - | - | - |
| 4 | Less: Deposits in form of BG/FDR | | | - | - | | | |
| 5 | Closing Security Deposit | | | 73.03 | 95.90 | 123.48 | 144.79 | 166.10 |
| 6 | Bank Rate | | | 6.00% | 9.50% | 8.50% | 9.00% | 8.50% |
| 7 | Interest on Security Deposit * | 2.99 | 3.18 | 4.12 | 8.02 | 9.32 | 12.07 | 13.21 |
| 8 | Cumulative Security Deposit of Past Years | 52.92 | | | | | | |
| 9 | Security Deposit Paid | | | - | - | - | 2.02 | 2.50 |
| 10 | Balance Security Deposit to be Paid during control Period | 48.40 | | | | | | |

Format 19 – INFORMATION REGARDING FOREIGN EXCHANGE RATE VARIATION (FERV)

| Sr. No. | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) | Ensuing Year (Projections) | | |
|---------|------------------------------|-----------------------|-----------------------------|----------------------------|----------------------------|------------|------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Amount of liability provided | NIL | | | | | |
| 2 | Amount recovered | | | | | | |
| 3 | Amount adjusted | | | | | | |

Format 20 – NON-TARIFF INCOME

(Rs. Crore)

| Sr. No. | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) | Ensuing Year (Projections) | | |
|-----------|------------------------------------|-----------------------|-----------------------------|----------------------------|----------------------------|-------------|-------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Meter/service rent | | | | | | |
| 2 | Late payment surcharge | | | | | | |
| 3 | UI Sales / Sales to Exchange | 23.29 | 2.06 | 1.17 | | | |
| 4 | Wheeling charges under open access | | | | | | |
| 5 | Income from trading of Materials | 0.08 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 |
| 6 | Income staff welfare activities | | | | | | |
| 7 | Misc. Receipts/income | 3.35 | 2.48 | 2.60 | 2.73 | 2.87 | 3.01 |
| 8 | Total income | 26.72 | 4.60 | 3.83 | 2.80 | 2.93 | 3.08 |
| 9 | Add: Prior Period income | | | | | | |
| 10 | Total Non Tariff income | 26.72 | 4.60 | 3.83 | 2.80 | 2.93 | 3.08 |

Format 21 – REVENUE FROM OTHER BUSINESS

| Sr. No. | Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) | Ensuing Year (Projections) | | |
|---------|--|-----------------------|-----------------------------|----------------------------|----------------------------|------------|------------|
| | | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Total revenue from other business | NIL | | | | | |
| 2 | Income from other business to be considered for licensed business as per regulations | | | | | | |

Format 22 – LEASE DETAILS

| Name of Lesser | Gross Assets (Rs. Crore) | Lease entered on | Lease Rentals (Crs/pm) | Primary period ended/ ending by | Secondary period ending by |
|----------------|--------------------------|------------------|-------------------------|---------------------------------|----------------------------|
| Power Grid | 23.07 | 07-01-2002 | 0.22 | 06-01-2017 | NA |

Format 23 – WHOLESALE PRICE INDEX (ALL COMMODITIES)

| Sr. No. | Period | WPI | Increase over previous year |
|---------|---------------------------------|--------|-----------------------------|
| 1 | Financial Year 2010-11 | 143.33 | |
| 2 | Financial Year 2011-12 | 156.13 | 8.93% |
| 3 | Financial Year 2012-13 | 167.62 | 7.36% |
| 4 | Financial Year 2013-14 | 177.64 | 5.98% |
| 5 | Financial Year 2014-15 | 181.19 | 2.00% |
| 6 | Average WPI of last three years | | 5.11% |

Format 24 – EQUITY AND LOAN

| Sr. No. | Period | Amount of equity (Rs. Crore) * | Amount of loan (Rs. Crore) | Ratio of equity & loan |
|---------|------------------------------|--------------------------------|----------------------------|------------------------|
| 1 | As on March 31 of FY2011-12 | 429.46 | 51.03 | 89 : 11 |
| 2 | As on March 31 of FY 2012-13 | 457.00 | 98.30 | 82 : 18 |
| 3 | As on March 31 of FY 2013-14 | 469.32 | 94.27 | 83 : 17 |
| 4 | As on March 31 of FY 2014-15 | 519.79 | 114.19 | 82 : 18 |
| 5 | As on March 31 of FY 2015-16 | 547.71 | 149.57 | 79 : 21 |
| 6 | As on March 31 of FY 2016-17 | 607.23 | 180.58 | 77 : 23 |
| 7 | As on March 31 of FY 2017-18 | 712.61 | 231.34 | 75 : 25 |
| 8 | As on March 31 of FY 2018-19 | 794.37 | 293.44 | 73 : 27 |

Format 25 – ANNUAL REVENUE REQUIREMENT FOR FY 2013-14 (ACTUALS)

(Rs. Crore)

| Sr. No. | Item of expense | Proposed by licensee | Revised by Licensee | Approved by the Commission | Actuals as per Accounts |
|-----------|---|----------------------|---------------------|----------------------------|-------------------------|
| 1 | Cost of fuel | | | | |
| 2 | Cost of power purchase including RPO Provision to meet obligation of the previous years | 1,049.64 | 984.77 | 1,002.78 | 994.04 |
| 3 | Employee costs | 67.60 | 69.69 | 64.73 | 72.70 |
| 4 | Administration and General expenses | 5.35 | 3.96 | 3.96 | 7.25 |
| 5 | R&M expenses | 17.64 | 20.15 | 18.06 | 13.46 |
| 6 | Depreciation | 25.03 | 23.65 | 23.65 | 23.38 |
| 7 | Interest charges (including interest on working capital) | 15.91 | 12.92 | 21.06 | 15.48 |
| 8 | Return on NFA /Equity | 10.95 | 9.85 | 9.87 | 8.88 |
| 9 | Provision for Bad Debt | | | | |
| 10 | Interest on Consumer Security Deposit | | | | - |
| 11 | Amortization of the regulatory asset proposed for previous years | 92.60 | | | |
| 12 | Total Revenue Requirement | 1,284.73 | 1,125.00 | 1,144.11 | 1,135.19 |
| 13 | Less: Non-Tariff Income | 144.30 | 16.50 | 16.50 | 26.72 |
| 14 | Net Revenue Requirement (12-13) | 1,140.43 | 1,108.50 | 1,127.61 | 1,108.47 |
| 15 | Revenue from Tariff * | 833.80 | 1,089.13 | 1,084.99 | 1045.82 |
| 16 | Revenue Gap (14-15) | 306.63 | 19.37 | 42.62 | 62.64 |
| 17 | Additional Surcharge | | 105.00 | 104.36 | 101.46 |
| 18 | Net Revenue Gap after Surcharge (16-17) | 306.63 | (85.63) | (61.74) | (38.82) |
| 19 | Energy sales (MU) | 2,897.10 | 2,542.53 | 2,498.65 | 2,366 |
| 20 | Average Cost of Supply (Rs/kWh) | 3.94 | 4.36 | 4.51 | 4.69 |

* -Energy Sales doesn't includes sale through UI / Export to Exchange

Format 25 – ANNUAL REVENUE REQUIREMENT FOR FY 2014-15 (PROVISIONAL ACTUALS)

(Rs. Crore)

| Sr. No. | Item of expense | Proposed by licensee | Revised by Licensee | Approved by the Commission | Actuals as per Accounts |
|-----------|---|----------------------|---------------------|----------------------------|-------------------------|
| 1 | Cost of fuel | | | | |
| 2 | Cost of power purchase including RPO Provision to meet obligation of the previous years | 996.73 | 970.62 | 963.84 | 940.45 |
| 3 | Employee costs | 76.28 | 75.32 | 75.32 | 75.93 |
| 4 | Administration and General expenses | 4.25 | 5.36 | 5.36 | 14.59 |
| 5 | R&M expenses | 20.56 | 19.12 | 19.12 | 7.71 |
| 6 | Depreciation | 26.45 | 30.86 | 30.86 | 25.92 |
| 7 | Interest charges (including interest on working capital) | 16.12 | 19.38 | 19.38 | 18.81 |
| 8 | Return on NFA /Equity | 9.99 | 10.67 | 8.37 | 8.37 |
| 9 | Provision for Bad Debt | | | | 2.60 |
| 10 | Interest on Consumer Security Deposit | | 4.00 | 4.00 | 2.02 |
| 11 | Amortization of the regulatory asset proposed for previous years | | | | |
| 12 | Total Revenue Requirement | 1,150.38 | 1,135.33 | 1,126.25 | 1,096.40 |
| 13 | Less: Non-Tariff Income | 0.50 | 4.88 | 4.88 | 4.60 |
| 14 | Net Revenue Requirement (12-13) | 1,149.88 | 1,130.45 | 1,121.37 | 1,091.80 |
| 15 | Revenue from Tariff * | 1,080.67 | 1,089.13 | 1,142.70 | 1,077.06 |
| 16 | Revenue Gap (14-15) | 69.21 | 41.32 | (21.33) | 14.74 |
| 17 | Additional Surcharge | 108.00 | 110.50 | 110.50 | 103.94 |
| 18 | Net Revenue Gap after Surcharge (16-17) | (38.79) | (69.18) | (131.83) | (89.19) |
| 19 | Energy sales (MU) | 2,897.10 | 2,542.53 | 2,498.65 | 2,366 |
| 20 | Average Cost of Supply (Rs/kWh) | 3.97 | 4.45 | 4.49 | 4.61 |

* Note: Revenue from Tariff includes FPPCA but doesn't includes sale through UI / Export to Exchange

Format 25 – ANNUAL REVENUE REQUIREMENT FOR FY 2015-16 (REVISED ESTIMATES)

(Rs. Crore)

| Sr. No. | Item of expense | Proposed by licensee | Approved by the Commission | Revised by Licensee |
|-----------|--|----------------------|----------------------------|---------------------|
| 1 | Cost of fuel | | | |
| 2 | Cost of power purchase | 1,108.87 | 1,035.63 | 1,037.92 |
| 3 | Employee costs | 80.91 | 78.22 | 80.32 |
| 4 | Administration and General expenses | 5.76 | 5.68 | 11.50 |
| 5 | R&M Expenses | 18.35 | 18.35 | 16.99 |
| 6 | Depreciation | 35.21 | 35.21 | 27.80 |
| 7 | Interest charges (including interest on working capital) | 24.87 | 24.87 | 24.12 |
| 8 | Return on NFA /Equity | 16.21 | 8.89 | 9.47 |
| 9 | Provision for Bad Debt | | | |
| 10 | Interest on Consumer Security Deposit | 14.84 | 22.36 | 2.50 |
| | Provision to meet arrears of interest on consumer security deposit | - | 27.63 | - |
| 11 | Total Revenue Requirement | 1,305.02 | 1,256.84 | 1,210.63 |
| 12 | Less: Non-Tariff Income | 3.79 | 3.79 | 3.83 |
| 13 | Net Revenue Requirement (11-12) | 1,301.23 | 1,253.05 | 1,206.80 |
| 14 | Revenue from Tariff * | 1,213.10 | 1,210.82 | 1,164.07 |
| 15 | Revenue Gap (13-14) | 88.13 | 42.23 | 42.73 |
| 16 | Additional Surcharge | 60.93 | 33.32 | 30.11 |
| 17 | Net Revenue Gap after Surcharge (15-16) | 27.20 | 8.91 | 12.62 |
| 18 | Gap of Previous Years (17 (a) to 17 (f)) | 694.17 | 629.75 | 685.85 |
| a | <i>FY 2009-10</i> | 59.54 | 58.02 | 58.02 |
| b | <i>FY 2010-11</i> | 96.19 | 93.94 | 93.94 |
| c | <i>FY 2011-12</i> | 352.18 | 348.96 | 348.96 |
| d | <i>FY 2012-13</i> | 125.57 | 107.54 | 107.54 |
| e | <i>FY 2013-14</i> | 19.37 | 42.62 | 62.64 |
| f | <i>FY 2014-15</i> | 41.32 | (21.33) | 14.74 |
| 19 | Total Gap (15 + 18) | 782.30 | 671.98 | 728.58 |
| 20 | Collection of Surcharge | 273.20 | 248.18 | 235.51 |
| | <i>FY 2013-14</i> | 101.76 | 104.36 | 101.46 |
| | <i>FY 2014-15</i> | 110.50 | 110.50 | 103.94 |
| | <i>FY 2015-16</i> | 60.94 | 33.32 | 30.11 |
| 21 | Expected Subsidy from Government | 360.28 | 360.28 | 360.28 |
| 22 | Net Revenue Gap after Surcharge and Government Subsidy (19-20-21) | 148.82 | 63.52 | 132.79 |
| 22 | Energy sales (MU) | 2,524.70 | 2,502.09 | 2,473.07 |
| 23 | Average Cost of Supply (Rs/kWh) | 5.15 | 5.01 | 4.88 |

* Note: Revenue from Tariff includes FPPCA but doesn't includes sale through UI / Export to Exchange

Format 25 – PROJECTION OF ANNUAL REVENUE REQUIREMENT FOR ENSUING YEAR (MYT PERIOD FY 2016-17 TO FY 2018-19)

(Rs. Crore)

| Sr. No. | Item of expense | Proposed by licensee | | |
|-----------|--|----------------------|-----------------|-----------------|
| | | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1 | Cost of fuel | | | |
| 2 | Cost of power purchase | 1,124.57 | 1,185.47 | 1,251.34 |
| 3 | Employee costs | 75.12 | 81.75 | 80.32 |
| 4 | R&M expenses | 20.06 | 22.66 | 27.15 |
| 5 | Administration and General expenses | 5.11 | 5.56 | 6.05 |
| 6 | Depreciation | 32.24 | 38.93 | 46.86 |
| 7 | Interest charges (including interest on working capital) | 28.80 | 36.40 | 45.67 |
| 8 | Return on NFA /Equity | 18.26 | 22.47 | 27.61 |
| 9 | Provision for Bad Debt | | | |
| 10 | Interest on Consumer Security Deposit | 15.02 | 16.84 | 18.65 |
| 11 | Total Revenue Requirement | 1,319.18 | 1,410.07 | 1,503.65 |
| 12 | Less: Non-Tariff Income | 2.80 | 2.93 | 3.08 |
| 13 | Net Revenue Requirement (11-12) | 1,316.38 | 1,407.14 | 1,500.56 |
| 14 | Revenue from Existing Tariff * | 1,294.76 | | |
| 15 | Net Gap (13-14) | 21.62 | 1,407.14 | 1,500.56 |
| 16 | Energy sales (MU) | 2,797.08 | 2,980.60 | 3,177.04 |
| 17 | Average Cost of Supply (Rs/kWh) | 4.71 | 4.72 | 4.72 |

* Note: Revenue from Tariff doesn't include FPPCA and UI sale. Also, additional surcharge not considered in Control Period

** - Treatment of Gap and impact on Tariff shown separately

Format 25 A – TREATMENT OF REGULATORY ASSETS

(Rs. Crore)

| Sr. No. | Item of expense | Proposed by licensee | Approved by Commission | Revised by Licensee |
|---------|--|----------------------|------------------------|---------------------|
| 1 | FY 2009-10 | 59.54 | 58.02 | 58.02 |
| 2 | FY 2010-11 | 96.19 | 93.94 | 93.94 |
| 3 | FY 2011-12 | 352.18 | 348.96 | 348.96 |
| 4 | FY 2012-13 | 125.57 | 107.54 | 107.54 |
| 6 | Less: Government Support | (360.00) | (360.28) | (360.28) |
| 7 | Regulatory Assets | 273.48 | 248.18 | 248.18 |
| 8 | Recovery of Regulatory Assets from Consumers | | | |
| a | FY 2013-14 | 101.76 | 104.36 | 101.46 |
| b | FY 2014-15 | 110.50 | 110.50 | 103.94 |
| c | FY 2015-16 | 60.94 | 33.32 | 30.11 |
| 9 | Total Estimated Regulatory Assets recovered | 273.20 | 248.18 | 235.51 |
| 10 | Proposed/ Pending/Balance Recovery during control period | 0.28 | - | 12.67 |

Format 25 B – BRIEF GAP SUMMARY

(Rs. Crore)

| Particulars | Previous Year (Audit) | Previous Year (Provisional) | Current Year (Provisional) | Ensuing Year (Projections) |
|---|-----------------------|-----------------------------|----------------------------|----------------------------|
| | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 |
| Net ARR | 1,108.47 | 1,091.80 | 1,206.80 | 1,316.38 |
| Less: Revenue at Existing Tariffs excluding Surcharge | 1,045.82 | 1,077.06 | 1,164.07 | 1,294.76 |
| Revenue Gap for the year | 62.64 | 14.74 | 42.73 | 21.62 |
| Opening Balance of Gap | | 62.64 | 77.39 | 181.19 |
| Add: Past Gap | | | | |
| <i>Gap for FY 2013-14</i> | 62.64 | | | |
| <i>Gap for FY 2014-15</i> | | 14.74 | | |
| <i>Gap for FY 2015-16</i> | | | 42.73 | |
| <i>Gap during MYT Control Period</i> | | | | 21.62 |
| Total Cumulative Gap for years | 62.64 | 77.39 | 120.12 | 202.81 |
| Additional Past Recoveries | | | | |
| Balance/Pending Regulatory Asset recovery | | | 12.67 | |
| Accumulated Interest on Security Deposit to be paid in MYT Period | | | 48.40 | |
| Balance Regulatory Gap to be recovered from MYT Control Period | | - | 181.19 | 202.81 |

Format 26 – REVENUE AT EXISTING TARIFF (ACTUALS FY 2013-14)

| Sr. No. | Category of Consumer | No of Consumers | Energy Sale (MUs) | Contracted Maximum Demand (KW/kVA) | Revenue (Rs Crore) | | | | | | |
|----------|---|-----------------|-------------------|------------------------------------|--------------------|----------------|---------------|----------|---------------|---------------|---------------|
| | | | | | Demand Charges | Energy Charges | FPPCA Charges | Accrual | Total Billing | 10% Surcharge | Total |
| 1 | Domestic & Cottage | | | | | | | | | | |
| a | 0 – 100 | 108,879 | 210.00 | - | 2.61 | 21.00 | | | 23.61 | 2.36 | 25.97 |
| b | 101 – 200 | 59,884 | 132.00 | - | 1.44 | 19.80 | | | 21.24 | 2.12 | 23.36 |
| c | 201 – 300 | 48,995 | 78.00 | - | 1.76 | 21.84 | | | 23.60 | 2.36 | 25.96 |
| d | >300 | 54,440 | 180.00 | - | 1.96 | 63.00 | | | 64.96 | 6.50 | 71.46 |
| e | OHOB | 35,537 | 12.09 | - | 1.07 | - | | | 1.07 | | 1.07 |
| f | Total | 307,735 | 612.09 | - | 8.84 | 125.64 | - | - | 134.48 | 13.34 | 147.82 |
| 2 | Commercial | | | | | | | | | | |
| a | 0 – 100 | 7,250 | 28.96 | - | 0.52 | 10.14 | | | 10.66 | 1.07 | 11.72 |
| b | 101 – 250 | 6,796 | 21.72 | - | 0.49 | 9.77 | | | 10.26 | 1.03 | 11.29 |
| c | > 250 | 31,265 | 130.32 | - | 2.25 | 65.16 | | | 67.41 | 6.74 | 74.15 |
| d | Total | 45,311 | 181.00 | - | 3.26 | 85.07 | - | | 88.33 | 8.83 | 97.17 |
| 3 | Agriculture | | | | | | | | | | |
| a | Small farmers | 958 | 8.00 | 5,439 | 0.05 | - | | | 0.05 | | 0.05 |
| b | Other farmers | 5,852 | 49.00 | 54,099 | 1.75 | - | | | 1.75 | | 1.75 |
| c | Total | 6,810 | 57.00 | 59,538 | 1.81 | - | - | | 1.81 | - | 1.81 |
| 4 | Public lighting | 49,524 | 26.00 | - | 2.97 | 10.92 | | | 13.89 | 1.39 | 15.28 |
| 5 | LT Industrial | | | | | | | | | | |
| a | 0 – 1000 | 3,627 | 104.70 | - | 0.26 | 45.02 | | | 45.28 | 4.53 | 49.81 |
| b | > 1000 | 2,626 | 69.80 | - | 0.19 | 31.41 | | | 31.60 | 3.16 | 34.76 |
| c | Water tank | 85 | 51.60 | - | 0.01 | 23.74 | | | 23.74 | 2.37 | 26.12 |
| d | Total | 6,338 | 226.10 | - | 0.46 | 100.17 | - | | 100.62 | 10.06 | 110.69 |
| 6 | Temporary supply - LT&HT | - | 10.10 | - | - | 9.09 | | | 9.09 | 0.91 | 10.00 |
| 7 | Total LT | 415,718 | 1,112 | 59,538 | 17.34 | 330.89 | - | | 348.22 | 34.54 | 382.76 |
| 8 | HT 1 Industrial | | | | | | | | | | |
| a | Contract Demand upto 2000 | | | | | | | | | | |
| i | 0 – 100000 | 224 | 190.01 | 57,000 | 13.68 | 82.65 | | - | 96.33 | 9.63 | 105.97 |
| ii | >100000 | 96 | 163.05 | 80,500 | 19.32 | 73.37 | | - | 92.69 | 9.27 | 101.96 |
| b | Contract Demand greater than 2000 kVA and upto 5000 kVA | 43 | 462.39 | 133,000 | 35.11 | 217.32 | | - | 252.44 | 25.24 | 277.68 |
| | Total | 363 | 815 | 270,500 | 68.11 | 373.35 | - | - | 441.46 | 44.15 | 485.61 |
| c | Commercial - Contract Demand upto 5000 kVA | 71 | 62.56 | 20,450 | 5.40 | 29.40 | | | 34.80 | 3.48 | 38.28 |

True-up for FY 2013-14, Provisional True-up for FY 2014-15, Review for FY 2015-16 and ARR & MYT Petition for FY 2016-19

| | | | | | | | | | | | |
|----|--------------------------------|----------------|-----------------|----------------|---------------|---------------|--------------|-------------|-----------------|---------------|-----------------|
| 9 | HT 2 - Government & water tank | 49 | 48.77 | 18,500 | 4.88 | 22.43 | | - | 27.32 | 2.73 | 30.05 |
| 10 | HT 3 – EHT | 7 | 326.65 | 90,500 | 21.72 | 146.99 | | - | 168.71 | 16.87 | 185.58 |
| 11 | Total HT | 490 | 1,253.43 | 399,950 | 100.11 | 572.18 | - | - | 672.29 | 67.23 | 739.52 |
| 12 | Total | 416,208 | 2,365.72 | 459,488 | 117.45 | 903.07 | 22.76 | 2.54 | 1,045.82 | 101.46 | 1,147.29 |

Format 26 – REVENUE AT EXISTING TARIFF (PROVISIONAL ACTUALS FY 2014-15)

| Sr. No. | Category of Consumer | No of Consumers | Energy Sale (MUs) | Contracted Maximum Demand (KW/kVA) | Revenue (Rs Crore) | | | | | |
|-----------|---|-----------------|-------------------|------------------------------------|--------------------|----------------|---------------|-----------------|---------------|-----------------|
| | | | | | Demand Charges | Energy Charges | FPPCA Charges | Total Billing | 10% Surcharge | Total |
| 1 | Domestic & Cottage | | | | | | | | | |
| a | 0 – 100 | 114,598 | 222.33 | - | 4.13 | 23.34 | - | 27.47 | 2.75 | 30.22 |
| b | 101 – 200 | 63,029 | 146.10 | - | 2.27 | 23.38 | - | 25.65 | 2.56 | 28.21 |
| c | 201 – 300 | 51,569 | 82.58 | - | 1.86 | 25.60 | - | 27.46 | 2.75 | 30.20 |
| d | >300 | 57,299 | 184.21 | - | 2.06 | 70.92 | - | 72.99 | 7.30 | 80.28 |
| e | OHOB | 35,539 | 10.00 | - | 1.07 | - | - | 1.07 | - | 1.07 |
| f | Total | 322,034 | 645.22 | - | 11.38 | 143.24 | - | 154.62 | 15.36 | 169.98 |
| 2 | Commercial | | | | | | | | | |
| a | 0 – 100 | 7,510 | 29.15 | - | 0.63 | 11.22 | - | 11.86 | 1.19 | 13.04 |
| b | 101 – 250 | 7,041 | 27.33 | - | 0.59 | 12.44 | - | 13.03 | 1.30 | 14.33 |
| c | > 250 | 32,387 | 125.73 | - | 2.72 | 62.86 | - | 65.59 | 6.56 | 72.14 |
| d | Total | 46,938 | 182.22 | - | 3.94 | 86.53 | - | 90.47 | 9.05 | 99.51 |
| 3 | Agriculture | | | | | | | | | |
| a | Small farmers | 960 | 8.00 | 5,439 | 0.05 | - | - | 0.05 | - | 0.05 |
| b | Other farmers | 5,889 | 49.00 | 54,099 | 1.76 | - | - | 1.76 | - | 1.76 |
| c | Total | 6,849 | 57.00 | 59,538 | 1.81 | - | - | 1.81 | - | 1.81 |
| 4 | Public lighting | 49,893 | 26.00 | - | 2.99 | 11.44 | - | 14.43 | 1.44 | 15.88 |
| 5 | LT Industrial & Water Tank | | | | | | | | | |
| a | LT Industrial | 6,338 | 164.05 | - | 0.61 | 73.82 | - | 74.43 | 7.44 | 81.87 |
| b | Water tank | 85 | 34.85 | - | 0.01 | 15.68 | - | 15.69 | 1.57 | 17.26 |
| c | Total | 6,423 | 198.90 | - | 0.62 | 89.51 | - | 90.12 | 9.01 | 99.13 |
| 6 | Temporary supply - LT&HT | - | 6.12 | - | - | 5.51 | - | 5.51 | 0.55 | 6.06 |
| 7 | Total LT | 432,137 | 1,115.46 | 59,538 | 20.74 | 336.22 | - | 356.96 | 35.41 | 392.37 |
| 8 | HT 1 Industrial | | | | | | | | | |
| a | HT I(a) for contract demand upto 5000 kVA | 337 | 805.16 | 234,717 | 61.97 | 378.42 | - | 440.39 | 44.04 | 510.60 |
| b | HT I(b) for contract demand upto 5000 kVA | 75 | 70.13 | 21,160 | 5.59 | 32.96 | - | 38.55 | 3.85 | 42.40 |
| c | Total | 412 | 875.290 | 255,877 | 68 | 411.39 | - | 478.94 | 48 | 553 |
| 9 | HT 2 - Government & water tank | 53 | 55.96 | 19,186 | 5.07 | 26.86 | - | 31.93 | 3.19 | 35.12 |
| 10 | HT 3 – EHT | 7 | 319.60 | 83,997 | 24.19 | 150.21 | - | 174.4 | 17.44 | 191.84 |
| 11 | Total HT | 472 | 1,251 | 359,060 | 96.81 | 588.46 | - | 685.27 | 68.53 | 779.97 |
| 12 | Total | 432,609 | 2,366.31 | 418,598 | 117.55 | 924.68 | 34.83 | 1,042.23 | 103.94 | 1,181.00 |

Format 26 – REVENUE AT EXISTING TARIFF (REVISED ESTIMATES FY 2015-16)

| Sr. No. | Category of Consumer | No of Consumers | Energy Sale (MUs) | Contracted Maximum Demand (KW/kVA) | Revenue (Rs Crore) | | | | | |
|-----------|---|-----------------|-------------------|------------------------------------|--------------------|-----------------|---------------|-----------------|-----------------|-----------------|
| | | | | | Demand Charges | Energy Charges | FPPCA Charges | Total Billing | 2.64% Surcharge | Total |
| 1 | Domestic & Cottage | | | | | | | | | |
| a | 0 – 100 | 117,681 | 204 | - | 4.52 | 22.41 | - | 26.93 | 0.71 | 27.64 |
| b | 101 – 200 | 64,724 | 149 | - | 2.49 | 24.65 | - | 27.13 | 0.72 | 27.85 |
| c | 201 – 300 | 52,956 | 102 | - | 2.03 | 33.10 | - | 35.14 | 0.93 | 36.06 |
| d | >300 | 58,840 | 224 | - | 2.26 | 95.23 | - | 97.49 | 2.57 | 100.07 |
| e | OHOB | 35,539 | 10 | - | 1.15 | - | - | 1.15 | | 1.15 |
| f | Total | 329,741 | 689.02 | - | 12.45 | 175.39 | - | 187.84 | 4.93 | 192.77 |
| 2 | Commercial | | | | | | | | | |
| a | 0 – 100 | 7,708 | 29 | - | 0.69 | 12.31 | - | 13.00 | 0.34 | 13.34 |
| b | 101 – 250 | 7,226 | 27 | - | 0.65 | 13.11 | - | 13.76 | 0.36 | 14.12 |
| c | > 250 | 33,239 | 137 | - | 2.99 | 71.96 | - | 74.95 | 1.98 | 76.93 |
| d | Total | 48,173 | 193.04 | - | 4.34 | 97.37 | - | 101.71 | 2.69 | 104.39 |
| 3 | Agriculture | | | | | | | | | |
| a | Small farmers | 960 | 8.00 | 4,079 | 0.04 | - | - | 0.04 | | 0.04 |
| b | Other farmers | 5,889 | 49.00 | 40,575 | 1.45 | - | - | 1.45 | | 1.45 |
| c | Total | 6,849 | 57.00 | 44,654 | 1.49 | - | - | 1.49 | | 1.49 |
| 4 | Public lighting | 50,055 | 27.24 | - | 3.24 | 14.71 | - | 17.95 | 0.47 | 18.43 |
| 5 | LT Industrial and Water Tank | | | | | | | | | |
| a | LT Industrial | 6,504 | 169.01 | - | 0.67 | 86.20 | - | 86.87 | 2.29 | 89.16 |
| b | Water tank | 113 | 35.90 | - | 0.01 | 18.31 | - | 18.32 | 0.48 | 18.81 |
| c | Total | 6,617 | 204.92 | - | 0.68 | 104.51 | - | 105.19 | 2.78 | 107.97 |
| 6 | Temporary supply - LT&HT | - | 8.28 | - | - | 7.82 | - | 7.82 | 0.21 | 8.03 |
| 7 | Total LT | 441,435 | 1,179.50 | 44,654 | 22.20 | 399.80 | - | 422.01 | 11.07 | 433.08 |
| 8 | HT 1 Industrial | | | | | | | | | |
| a | HT I(a) for contract demand upto 5000 kVA | 347 | 841.42 | 241,634 | 68.14 | 399.68 | | 467.82 | 12.35 | 480.17 |
| b | HT I(b) for contract demand upto 5000 kVA | 80 | 73.12 | 21,583 | 6.09 | 34.73 | - | 40.82 | 1.08 | 41.90 |
| c | Total | 427 | 915 | 263,217 | 74 | 434 | - | 509 | 13.43 | 522 |
| 9 | HT 2 - Government & water tank | 53 | 58.58 | 19,570 | 5.52 | 32.22 | - | 37.74 | 1.00 | 38.73 |
| 10 | HT 3 – EHT | 7 | 320.44 | 85,677 | 22.62 | 152.21 | - | 174.83 | 4.62 | 179.44 |
| 11 | Total HT | 487 | 1,293.56 | 368,464 | 102 | 619 | - | 721 | 19.04 | 740 |
| | Total | 441,922 | 2,473.07 | 413,118 | 124.57 | 1,018.64 | 20.86 | 1,143.21 | 30.11 | 1,194.18 |

Format 26 – REVENUE AT EXISTING TARIFF (ENSUING YEAR FY 2016-17)

| Sr. No. | Category of Consumer | No of Consumers | Energy Sale (MUs) | Contracted Maximum Demand (KW/kVA) | Revenue (Rs Crore) | | | |
|-----------|---|-----------------|-------------------|------------------------------------|--------------------|-----------------|-----------------|-----------------|
| | | | | | Demand Charges | Energy Charges | Total Billing | Total |
| 1 | Domestic & Cottage | | | | | | | |
| a | 0 – 100 | 122,968 | 246 | - | 4.72 | 27.04 | 31.76 | 31.76 |
| b | 101 – 200 | 67,633 | 180 | - | 2.60 | 29.75 | 32.34 | 32.34 |
| c | 201 – 300 | 55,336 | 123 | - | 2.12 | 39.95 | 42.07 | 42.07 |
| d | >300 | 61,484 | 270 | | 2.36 | 114.93 | 117.29 | 117.29 |
| e | OHOB | 35,539 | 10 | 2,843 | 1.15 | - | 1.15 | 1.15 |
| f | Total | 342,960 | 829.84 | 509,672 | 12.96 | 211.67 | 224.62 | 224.62 |
| 2 | Commercial | | | | | | | - |
| a | 0 – 100 | 7,961 | 31 | - | 0.72 | 13.22 | 13.93 | 13.93 |
| b | 101 – 250 | 7,463 | 29 | - | 0.67 | 14.08 | 14.75 | 14.75 |
| c | > 250 | 34,330 | 147 | - | 3.09 | 77.28 | 80.37 | 80.37 |
| d | Total | 49,754 | 207.32 | 109,627 | 4.48 | 104.57 | 109.05 | 109.05 |
| 3 | Agriculture | | | | | | | |
| a | Small farmers | 958 | 8 | 4,079 | 0.04 | - | 0.04 | 0.04 |
| b | Other farmers | 5,878 | 49 | 40,575 | 1.45 | - | 1.45 | 1.45 |
| c | Total | 6,836 | 57.00 | 44,654 | 1.49 | - | 1.49 | 1.49 |
| 4 | Public lighting | 50,824 | 28.17 | 6,058 | 3.29 | 15.21 | 18.51 | 18.51 |
| 5 | LT Industrial & Water Tank | | | | | | | |
| a | LT Industrial | 6,566 | 184.77 | - | 0.68 | 94.23 | 94.91 | 94.91 |
| c | Water tank | 117 | 39.25 | - | 0.01 | 20.02 | 20.03 | 20.03 |
| d | Total | 6,683 | 224.02 | 122,804 | 0.69 | 114.25 | 114.94 | 114.94 |
| 6 | Temporary supply - LT&HT | - | | - | - | | - | - |
| 7 | Total LT | 457,057 | 1,346.35 | 792,815 | 22.91 | 445.70 | 468.61 | 468.61 |
| 8 | HT 1 Industrial | | | | | | | |
| a | HT I(a) for contract demand upto 5000 kVA | 362 | 928.27 | 306,450 | 86.42 | 440.93 | 527.35 | 527.35 |
| b | HT I(b) for contract demand upto 5000 kVA | 81 | 80.72 | 26,648 | 7.51 | 38.34 | 45.86 | 45.86 |
| c | Total | 443 | 1,008.99 | 333,098 | 94 | 479 | 573 | 573 |
| 9 | HT 2 - Government & water tank | 56 | 65.33 | 27,731 | 7.82 | 35.93 | 43.75 | 43.75 |
| 10 | HT 3 – EHT | 7 | 376.41 | 115,167 | 30.40 | 178.79 | 209.20 | 209.20 |
| 11 | Total HT | 506 | 1,451 | 475,996 | 132.16 | 694.00 | 826 | 826 |
| 12 | Total | 457,563 | 2,797.08 | 1,268,811 | 155.07 | 1,139.70 | 1,294.76 | 1,294.76 |

Format 27 – REVENUE AT PROPOSED TARIFF (ENSUING YEAR FY 2016-17)

| Sr. No. | Category of Consumer | No of Consumers | Energy Sale/ Demand (MUs) | Contracted Maximum Demand (KW/kVA) | Fixed Charge (Rs/kW Rs/kVA Rs/BHP Rs/Month/ Connection) | Energy Charge (Rs/kWh) | Revenue (Rs Crore) | | |
|-------------|--|-----------------|---------------------------|------------------------------------|---|------------------------|--------------------|-----------------|-----------------|
| | | | | | | | Fixed Charges | Energy Charges | Total |
| 1(a) | Domestic & Cottage | | | | | | | | |
| | 0 – 100 | 122,968 | 245.84 | - | 32 | 1.10 | 4.72 | 27.04 | 31.76 |
| | 101 – 200 | 67,633 | 180.28 | - | 32 | 1.65 | 2.60 | 29.75 | 32.34 |
| | 201 – 300 | 55,336 | 122.92 | - | 32 | 3.25 | 2.12 | 39.95 | 42.07 |
| | >300 | 61,484 | 270.42 | - | 32 | 4.25 | 2.36 | 114.93 | 117.29 |
| 1(b) | OHOB | 35,539 | 10.38 | 2,843 | 27 | - | 1.15 | - | 1.15 |
| | Total | 342,960 | 829.84 | 509,672 | - | - | 12.96 | 211.67 | 224.62 |
| 2 | Commercial | | | | | | | | |
| | 0 – 100 | 7,961 | 31.10 | - | 75 | 4.25 | 0.72 | 13.22 | 13.93 |
| | 101 – 250 | 7,463 | 29.02 | - | 75 | 4.85 | 0.67 | 14.08 | 14.75 |
| | > 250 | 34,330 | 147.20 | - | 75 | 5.25 | 3.09 | 77.28 | 80.37 |
| | Total | 49,754 | 207.32 | 109,627 | | | 4.48 | 104.57 | 109.05 |
| 3 | Agriculture | | | | | | | | |
| | Small farmers | 958 | 8.00 | 4,079 | 9 | - | 0.04 | - | 0.04 |
| | Other farmers | 5,878 | 49.00 | 40,575 | 27 | - | 1.44 | - | 1.44 |
| | Total | 6,836 | 57 | 44,654 | | | 1.49 | - | 1.49 |
| 4 | Public lighting | 50,824 | 28.17 | 6,058 | 54 | 5.40 | 3.29 | 15.21 | 18.51 |
| 5 | LT Industrial and Water Tank | | | | | | | | |
| 5(a) | LT Industrial | 6,566 | 184.77 | - | 86 | 5.10 | 0.68 | 94.23 | 94.91 |
| 5(b) | Water tank | 117 | 39.25 | - | 86 | 5.10 | 0.01 | 20.02 | 20.03 |
| | Total | 6,683 | 224 | 122,804 | | | 0.69 | 114.25 | 114.94 |
| 5© | Temporary supply - LT&HT | - | - | - | - | 9.45 | - | - | - |
| A | Total LT | 457,057 | 1,346.35 | 792,815 | - | - | 22.91 | 445.70 | 468.61 |
| 6 | HT 1 Industrial | | | | | | | | |
| 6(a) | HT I(a) for contract demand upto 5000 kVA | 362 | 928.27 | 306,450 | 235 | 4.75 | 86.42 | 440.93 | 527.35 |
| 6(b) | HT I(b) for contract demand upto 5000 kVA | 81 | 80.72 | 26,648 | 235 | 4.75 | 7.51 | 38.34 | 45.86 |
| | Total | 443 | 1,008.99 | 333,098 | | | 93.93 | 479.27 | 573.20 |
| 7 | HT 2 - Government & water tank | 56 | 65.33 | 27,731 | 235 | 5.50 | 7.82 | 35.93 | 43.75 |
| 8 | HT 3 – EHT | 7 | 376.41 | 115,167 | 220 | 4.75 | 30.40 | 178.79 | 209.20 |
| B | Total HT | 506 | 1,451 | 475,996 | - | - | 132.16 | 694.00 | 826.15 |
| 9 | Total | 457,563 | 2,797.08 | 1,268,811 | | | 155.06 | 1,139.70 | 1,294.76 |

Annexure II: AUDITED ACCOUNTS OF FY 2013-14

Annexure III: UN-AUDITED ACCOUNTS OF FY 2014-15