# BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA AND UNION TERRITORIES HSIIDC Office Complex, Udyog Vihar, Gurgaon

# <u>PETITION NO: .....</u> <u>of 2017</u>

IN THE MATTER OF : Petition under Section 62 and 83 (4) of the Electricity Act, 2003 read with chapter-II of ......2/-

|                      |   | The Joint Electricity Regulatory Commission<br>(Terms & Conditions for Determination of Tariff)<br>Regulations, 2009 for approval of Tariff for<br>Karaikal Gas Power Station, (32.5MW) for the<br>period 2018-19. |
|----------------------|---|--|
| AND IN THE MATTER OF | : |  |
| PETITIONER           | : | Puducherry Power Corporation Ltd.(PPCL),<br>#10, Second Cross, Jawahar Nagar,<br>Boomiyanpet,<br>PUDUCHERRY-605 005.   |
| RESPONDENT           | : | The Superintending Engineer-cum-HOD,<br>Electricity Department,<br>Government of Puducherry,<br>137, NSC Bose Salai,<br>PUDUCHERRY – 605 001.  |

# AFFIDAVIT OF THIRU P. PARTHIBAN, IAS, SON OF SHRI PAZHANISAMY AGED ABOUT 34 YEARS RESIDING AT NO.5, INDIRA NAGAR GOVT. GUEST HOUSE, GORIMEDU, PUDUCHERRY – 605 006.

# I, the deponent above named do hereby solemnly affirm and state as under:

- 1.0 I am working as Managing Director (MD) of the Petitioner Company and I am duly authorized by the said petitioner to file this affidavit. I am conversant with the facts of the case.
- 2.0 I have read the accompanying Tariff Petition under Section 62 and 83 (4) of the Electricity Act, 2003 read with chapter-II of the Joint Electricity Regulatory Commission (Terms & Conditions for Determination of Tariff) Regulations, 2009 and I say that the facts stated therein are based on the records of the Petitioner maintained in the ordinary course of its business and believed by me to be true.

DEPONENT

# VERIFICATION:

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

Verified at Puducherry on this  $21^{st}$  day of November, 2017.

DEPONENT

PLACE : Puducherry DATE : 21.11.2017

# BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA AND UNION TERRITORIES HSIIDC Office Complex, Udyog Vihar, Gurgaon

# PETITION NO: .....

<u>of 2017</u>

IN THE MATTER OF : Petition under Section 62 and 83 (4) of the Electricity Act 2003 read with chapter-II of the Joint

.....2/-

|                      | Electricity Regulator<br>Conditions for Determ<br>2009 for Revision of<br>Station, (32.5 MW) fo<br>truing up exercise. |  |                             |        | ns,<br>ver |
|----------------------|--|--|-----------------------------|--------|------------|
| AND IN THE MATTER OF | :  |  |                             |        |            |
| PETITIONER           | :  | Puducherry Power<br>#10, Second Cross<br>Boomiyanpet,<br>PUDUCHERRY-60                           | s, Jawahar Nag              |        |            |
| RESPONDENT           | :  | The Superintendin<br>Electricity Departm<br>Government of Pu<br>137, NSC Bose Sa<br>PUDUCHERRY – | nent,<br>ducherry,<br>alai, | n-HOD, |            |

# AFFIDAVIT OF THIRU P. PARTHIBAN, IAS, SON OF SHRI PAZHANISAMY AGED ABOUT 34 YEARS RESIDING AT NO.5, INDIRA NAGAR GOVT. GUEST HOUSE, GORIMEDU, PUDUCHERRY – 605 006.

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VERIFICATION:

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

Verified at Puducherry on this 21<sup>st</sup> day of November, 2017.

DEPONENT

PLACE : Puducherry DATE : 21.11.2017

|   | ANNUAL PERFORMANCE REVIEW FOR FY 17-18 |               |                                |                      |   |              |           |                              |  |                                  |
|---|--|---------------|--------------------------------|----------------------|---|--------------|-----------|------------------------------|--|----------------------------------|
| SLNO  | MONTH                                  | ACTUAL<br>PLF | GENERATION AT<br>NORMATIVE PLF | ACTUAL<br>GENERATION | ACUTAL<br>AUXILARY<br>POWER<br>CONSUMPT<br>ION IN % | HEAT<br>RATE | FUEL BILL | ENERGY<br>CHARGES<br>CLAIMED | DIFF BETWEEN<br>FUEL BILL &<br>ENERGY<br>CHARGES<br>CALAIMED | CAPACITY<br>CHARGES<br>RECOVERED |
| 1   | April'17                               | 76.99         | 19890000                       | 18014680             | 6.42  | 3066.44      | 40631390  | 35233582.82                  | -5397807.18  | 17418047                         |
| 2   | May'17                                 | 79.37         | 20553000                       | 19387450             | 6.54  | 2951.8       | 42145506  | 36679711.92                  | -5465794.08  | 17807047.05                      |
| 3   | June'17                                | 80.2          | 19890000                       | 18767880             | 6.73  | 2864.85      | 39549232  | 35883200                     | -3666032   | 18017564.17                      |
| 4   | July'17                                | 80.35         | 20553000                       | 19429560             | 6.83  | 3113.15      | 45268496  | 37835001.64                  | -7433494.36  | 18031294.12                      |
| 5   | Aug'17                                 | 76.53         | 20553000                       | 18504040             | 6.89  | 2952.87      | 40906209  | 36008153.96                  | -4898055.04  | 17166341.17                      |
| 6   | Sept'17                                | 83.05         | 19890000                       | 19433190             | 6.79  | 2913.27      | 42106860  | 37494632.02                  | -4612227.98  | 18607929.42                      |
| cum   |  | 79.44         | 121329000                      | 113536800            | 6.75  | 2971.03      | 250607693 | 219134282.4                  | -31473410.64   | 107048222.9                      |
| Under recovery of Capacity charges =( 23.34/2)-10.70 = 0.97 |  |               |                                |                      |   |              | -3.15     | 10.7                         |  |                                  |

Under recovery of Capacity charges =(23.34/2)-10.70 = 0.97

Normative PLF

85% 2646 Kcal/kwh

Normative Heat Rate Normative APC 5%

Total under recovery = 3.15 + 0.97= Rs 4.12 crores

# **BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION**

# **PETITION NO: ..... OF 2017**

| IN THE MATTER OF<br>AND IN THE<br>MATTER OF: | : | Petition under Section 62 and 83 (4) of the<br>Electricity Act 2003 read with chapter-II of the<br>Joint Electricity Regulatory Commission (Terms<br>& Conditions for Determination of Tariff)<br>Regulations, 2009 for approval of Tariff for<br>Karaikal Gas Power Station, (32.5 MW) for the<br>period 2018-19. |
|--|---|--|
| PETITIONER                                   | : | Puducherry Power Corporation Ltd.(PPCL),<br>#10, Second Cross, Jawahar Nagar,<br>Boomianpet,<br>Puducherry-605 005   |
| RESPONDENT                                   | : | The Superintending Engineer-cum-HOD,<br>Electricity Department,<br>Govt. of Puducherry,<br>137, NSC Bose Salai,<br>Puducherry – 605 001.   |

# **MEMORANDUM OF TARIFF PETITION**

# **MOST RESPECTFULLY SHOWETH:**

**1.0** The Petitioner herein i.e. the Puducherry Power Corporation Ltd. (PPCL) is a Government of Puducherry undertaking and is a Government Company within the meaning of the Companies Act, 1956. Further, it is a "Generating Company" as defined under Section 2(28) of the Electricity Act, 2003.

- **2.0.** The Puducherry Power Corporation Ltd was incorporated on 30.03.1993 with the objective of generating 32.5 MW of Electricity (22.9 MW from gas turbine and 9.6 MW from Steam turbine) at Karaikal which is one of the outlying regions of Union Territory of Puducherry. The required gas of 1.91 lakhs cu.m of gas per day is obtained from the gas wells at Narimanam in the Cauvery basin under an agreement with the GAIL (India) Ltd.
- **3.0.** The Karaikal Gas Power Station was declared commercial operation w.e.f. 03.01.2000 and is supplying power to Electricity Dept., Puducherry under a PPA signed with them on 25.02.2002. Consequent to setting up of Hon'ble Joint Electricity Regulatory Commission, the Petitioner had filed first petition for determination of tariff for the period 2011-12. The Hon'ble Commission vide Order dated 06.08.2011 had determined tariff with effect from June, 2011. At present, the Petitioner is operating at the tariff rate fixed by the Hon'ble Commission to the Electricity Department vide order dated 31.03.2017 on the basis of petition filed for the tariff period 2017-18.
- **4.0** Section 62 of Electricity Act, 2003 provides for determination of tariff by the Appropriate Commission for supply of electricity by a generating company. The Hon'ble Commission, under Section 83(4) of Electricity Act, 2003, is vested with the jurisdiction to regulate the tariff of the Generating Companies owned or controlled by the Govt. of Union Territories.
- 5.0 In terms of Section 61 of the Electricity Act, 2003 this Hon'ble Commission has also notified the Joint Electricity Regulatory Commission (Terms & Conditions for Tariff) Regulations, 2009 (hereinafter referred to as 'Tariff Regulations, 2009').

- **6.0** In terms of the Tariff Regulations, 2009, the Petitioner has formulated the tariff for Karaikal Station for the year 2018-19. As per Regulation 12 of Tariff Regulations, 2009 the formats 1G to 12G as applicable to generating Companies have been filled in and placed at **Annexure-I.** The various assumptions considered for finalization of tariff brought up in the following paras is as per the methodologies specified by this Hon'ble Commission as well as the Hon'ble CERC as the case may be.
- **7.0** The Tariff has been calculated as fixed /capacity charges in Cr./per annum and the energy charges calculated based on cost of fuel/gas consumed for generation of electricity, as provided in Regulation 19 of the Tariff Regulations, 2009. The JERC/CERC Regulations have been kept in view as applicable while finalizing this petition and formulating tariff for instant station.

# A. CAPITAL COST:

- i. The Petitioner has claimed the total capital cost as stated in Regulation 22 (2) of the Tariff Regulations, 2009. The Petitioner has prepared the tariff for the year 2018-19 by considering the capital cost of ` 150.92 crores as opening capital cost as per Hon'ble
  Commission Order dated 31.03.2017. The total Capital Cost of ` 153.11 crores is up to 31.03.2017, as per the unaudited financial statement pertaining to the financial year 2016-17.
- ii. It is submitted to the Hon'ble Commission may allow the claim of the Petitioner of opening capital cost of ` 150.92 crores for the tariff period 2018-19 as approved in the Order dated 31.03.2017 for the tariff period 2017-18.

- iii. It is also submitted that the Petitioner requested the Hon'ble Commission to consider the capital cost for replacement of Gas turbine compressor stator and rotor blades along with major inspection of Gas Turbine. The service agency of OEM M/s.BGGTS has recommended the replacement of Compressor Stator and Rotor blades. For replacement of Compressor Rotor blades, Turbine Rotor needs to be changed for which an expenditure of `9.60 crores plus taxes will have to be incurred and the same was intimated to the Hon'ble Commission while filing the tariff petition of 2017-18. In the Tariff Order of FY 2017-18 and True up of FY 2014-15 the Hon'ble Commission has mentioned the following;" the Commission has no objection for the replacement of the Compressor rotor and other Gas Turbine spares. The Commission will consider the actual expense (after discovery of actual market price through the process of bidding and adjustment of salvage value of the existing rotor) at the time of True up as a capital expense, subject to technical validation of this requirement by the competent authority and subsequent investment approval of the Government".
- **iv.** In this regard, it is submitted that the Corporation floated the etender for Gas Turbine rotor and its spares even-though these are proprietary spares and got the approval from the Government to replace the rotor along with other mandatory spares to be replaced during the shutdown. As such, the Petitioner requests that a sum of

` 11.769 Crores inclusive of taxes incurred on procurement of rotor and associated spares may please be considered while arriving the Capital cost for determining the tariff. The list of spares considered for capitalisation is enclosed in the **Annexure-II**. Copy of the G.O Ms No.35 dt.05.10.2017 and the Purchase order copy for Gas Turbine spares are also enclosed in the **Annexure-II**.

# **B. RETURN ON EQUITY**

- i. It is submitted that as per Regulation 23 of the Tariff Regulations, the tariff determination is by splitting the capital expenditure into debt and equity of 70:30. If the equity employed is more than 30%, the amount of equity for determination of tariff is limited to 30% and the balance amount is considered as normative loan. In case of instant station, since the entire capital cost has been funded from the own funds, the equity has been considered at the normative level of 30% and the balance 70% has been considered as normative loan for calculation of Interest on Loan component of capacity charges.
- The return on Equity has been calculated @ 23.481% for the year 2018-19 as per Regulation 24 of the Tariff Regulations, 2009 read with CERC Tariff Regulations 2014.
- iii. It is submitted that Petitioner does not have tax holiday with effect from the financial year 2010-11 as the tax holiday was applicable to the Corporation up to 2009-10. As therefore, the Petitioner is claiming return on equity in the tariff petition at grossing rate @ 23.481%.
- iv. It is respectfully prayed that the return on equity as calculated@ 23.481% may be allowed by the Hon'ble Commission.

# C. DEPRECIATION ON ASSETS

 The rate of depreciation has been considered as per Regulation 26 of the Tariff Regulations, 2009 read with the applicable CERC Regulations 2014. In this regard, it is submitted before the Hon'ble Commission that the accumulated depreciation of the respective individual Asset has been restricted to 90% of the Capitalized value of the Assets in order to keep the 10% of the Cost as WDV as per Regulation 26 beyond which the depreciation has not been claimed in view of the provisions in the Tariff Regulations, 2009.

- ii. The station is more than 17 years old and Petitioner has calculated depreciations accordingly. The claim of the Petitioner is on the same methodology as adopted for the previous years.
- iii. It is prayed that the depreciation may be allowed as claimed by the Petitioner.

# **D. INTEREST ON WORKING CAPITAL**

For computing the element of Interest on Working Capital (IWC) of fixed/capacity charges the rate of interest considered is SBI Base Rate as on 01.4.2017 as per CERC Regulations 2014 Regulation 28 (3). The energy charges considered while working out IWC are based on average actual fuel consumption and payments made pertaining the period commencing from July '17, August '17 and September'17 and the same as per Petitioner's unaudited annual accounts.

# E. OPERATION & MAINTENANCE (O&M) EXPENSES

i. The Operation and Maintenance expenses element of Fixed/Capacity charges has been taken @ 43.50 lac/MW as specified by the CERC for small gas turbine for the year of 2018-19 based on Regulation 27 of the Tariff Regulations, 2009 and Regulation 29(1)(c) the applicable CERC Regulations, 2014.

# F. HEAT RATE AND AUXILIARY CONSUMPTION

i. The Tariff Regulations, 2009 of the Hon'ble Commission provides that the norms and parameters of the Central Commission's Tariff Regulations

shall be applicable. The Central Commission's Regulations provide for determination of Station Heat Rate on the basis of Gross Calorific Value (GCV).

- ii. The Station design net heat rate is 2291 Kcal/kwh. A copy of the heat balance diagram for design heat rate is enclosed in Annexure III. The gross heat design heat for net station design heat rate of 2291 Kcal/kwh works out to (2291\*1.1) 2520 Kcal/kwh considering a conversion factor of 1.1 i.e. GCV = 110% of NCV. Further, applying the degradation factor of 5% as per the CERC regulations, the normative GSHR comes to 2520 \* 1.05 = 2646 Kcal/kwh. The Commission approved the Gross Station Heat Rate at 2646 kcal/kWh for the FY 2015-16 on the basis of the submission of the Performance Guarantee Report of the Corporation for the guaranteed heat rate of 2291 kcal/kWh (on the basis of the NCV of the gas).
- iii. With regard to auxiliary power consumption, the Petitioner seeks to invoke the power of the Hon'ble Commission to deviate from the Tariff Regulations, 2009 considering the peculiar facts of the case and for reasons beyond the control of the Petitioner. The Auxiliary Power Consumption (APC) is considered as per actual based on period from 01.06.2017 to 30.09.2017 because the station has electric Gas Booster Compressor pumps due to which APC is higher.
- iv. The CEA has also recommended higher APC for plants having electric Gas Booster Compressor. Since Natural Gas is supplied at a lower pressure i.e. 3 to 5 kg/sq.cm. Electric driven Gas Booster compressors are required to boost up the gas pressure to 17 kg/sq.cm resulting in increase of APC. Four electric driven Gas Booster Compressor of 300 KW each has to run to achieve full load. It is imperative to submit that the Hon'ble Commission and also the Hon'ble Appellate Tribunal have taken the view that in number of judgments, the vintage of power plants has to be kept in mind

before determining the various operating parameters for the power plant and accordingly the petitioner has considered APC at 6% percentage which is around the actual.

- In <u>Gujarat State Electricity Corporation Limited v</u> <u>Gujarat Electrcity</u> <u>Regulatory Commission &Ors</u> (Judgment dated 23.11.2006 in Appeal No. 129 of 2006), where, the Hon'ble Tribunal had recommended *a modification in respect of the auxiliary consumption of the said generating stations viz. Gandhinagar 1 to 4, Sikka, KLTPS, Dhuravan.*
- In <u>Indraprastha Power Generation Company Limited</u> v. <u>DERC</u>(Judgment dated 10.01.2008 in Appeal No. 81 of 2007) wherein the Hon'ble Tribunal directed the DERC to consider relaxation in heat rate and O & M Expenses considering the vintage of the Stations.
- v. The CERC also in its order dated 19.06.2002 in Petition No.62 of 2000 has allowed relaxed operational norms in case of Takhar Thermal Power Station comprising of four units of 60 MW and two units of 110 MW.
- vi. As per the Assam Electricity Regulatory Commission (AERC) Tariff Order for the FY 2103-14 to FY2015-16 for Assam Power Generation Corporation Limited in petition no.3/2013, the AERC has allowed APC of 4.5 % for NTPS for against CEA recommendation of APC as 4% and APC of 5.5 % for LTPS with WHRU.
- vii. It is not possible for the Petitioner to achieve the norms specified in the Regulations, which are applicable generally. It is for this specific purpose that where there is sufficient justification and taking into account the facts of a particular generator, the power to relax and the power to deviate are provided for.
- viii. It is submitted that the month wise under recovery of Energy Charges on account of APC and Heat rate is enclosed as **Annexure-IV**. For the FY

2016-17, the under recovery is ` 1.33 crores. Hence, request for relaxation of APC to 6% as allowed in the case of AERC may be considered.

- ix. Applying the above analogy, the Petitioner is praying for the APC of 6%.
   The Petitioner is placing all the relevant pages from the above Judgments /
   Orders in a separate compilation as **Annexure V**.
- x. The Hon'ble Commission may consider the facts and factors and allow the Petitioners to avail the actual auxiliary consumption made during the period from 01.04.2017 to 30.09.2017 (coverage of 6 months) of the tariff year 2018-19.

# G. FUEL COST

It is submitted that the Petitioner has considered requirement of fuel stock etc. for working out interest on working capital and the Variable Charges for power supply from Karaikal station, based on landed cost of gas for the months of July'17, August'17 and September'17 instead of landed cost of the gas for the months of Jan.'17, Feb.'17 and March'17. This has been considered to arrive the fuel cost in realistic manner. Therefore, it is prayed that Hon'ble Commission may please allow working out of capacity and variable charges based on weighted average landed cost of gas for the months of July'17, August'17 and September'17.

# H. NORMATIVE ANNUAL PLANT AVAILABILITY FACTOR (NAPAF):

 In terms of Regulation 36 of the Tariff Regulations, 2009 read with the CERC Regulations, 2014, the Petitioner is praying for NAPAF of 85%. The CERC has specified Normative Annual Plant Availability Factor (NAPAF) for recovery of full fixed charges at 85% for the period 2014-19 for thermal generating stations. ii. The Hon'ble Commission may be pleased to fix the norm-"Normative Annual Plant Availability Factor" NAPAF for the Karaikal station for recovery of full fixed charges in the FY 2018-19 at 78% instead of 85% PLF in view of 30 days shutdown required for replacement of Gas turbine compressor stator and rotor blades along with major inspection of Gas Turbine.

# I. ANNUAL PERFORMANCE REVIEW FOR FY 17-18:

- The details of Annual Performance Review for FY 17-18 is enclosed in the Annexure – VI. The cumulative Plant load Factor from April'17 to September'17 is 79.44 and cumulative generation from April'17 to September'17 is 113.39 MU.
- ii. It is submitted that the Plant Load factor is lower than 85 % because the Steam Turbine running on part load as one of the tooth of Steam Turbine gear box high speed shaft pinion got cracked. So the cracked tooth was removed by BHEL Engineers and as per their advise machine is run on part load. BHEL has advised to procure one Gear set and bearing set immediately. Order for Gear set and bearing set has been placed on BHEL. Till the Gear set is replaced, Steam Turbine has to be run on part load.
- iii. The report of BHEL is enclosed as Annexure VII on the Breakdown of Steam Turbine Gear box. BHEL has concluded the reason for breakdown as follows;" The visible break in only one tooth of the Pinion and absence of any kind of indication on the rest of the Teeth and also on the Gear, indicate an instantaneous impact load imparted on the unit. The exact nature of the fault cannot be pin pointed, but guess can be made as a possible load throw or cascading failure of grid may have caused the damage"

- iv. From the conclusion of BHEL it is very clear that the damage is due to external factor which is beyond the control of PPCL. The under recovery of energy charges and capacity charges due to reduced generation is
   ` 4.12 Crores till the end of Sept'17 as shown in the Annexure VI. It is submitted that the under recovery may be allowed during review of FY 2017-18.
- v. It is submitted that the Distributed Control system installed in PPCL for HRSG controls and balance of Plant controls has become obsolete and the Original Equipment Manufacturer, M/s.Honeywell has suggested for up gradation. The cost of up gradation quoted by M/s.Honeywell is more than the cost of latest DCS available in the market. Hence it was proposed to replace the existing DCS with new one through tendering. The approximate value of the tender is ` 2.0 crores. Petitioner requests the expenditure proposed to be incurred in 2018-19 may be allowed under Renovation and Modernisation. Because of the above the proposed PLF of 78% may be allowed.

# J. ANNUAL FIXED CHARGES AND ENERGY CHARGES

Based on above, the Annual Fixed/Capacity charges have been worked out for the financial year 2018-19 (for detailed computations please refer **Annexure-I).** The monthly Capacity Charge payable shall be calculated as per the formula given in para 30(2) of CERC Tariff regulation 2014-19.

| Financial Year | Annual Capacity charge (` In |
|----------------|------------------------------|
|                | Cr.)                         |

The energy charges to be billed every month shall be as per following formula based on CERC Regulations 2014.

Energy Charge (ECR) = GHRxLGPx100/{GCVx(100-APC)},------ A

Where ECR = Energy charge rate, in Rs per KWH sent out upto three decimal charges,

GHR= Normative Gross Station Heat Rate in Kcal/kwh,

LGP= Weighted average landed price of gas in Rs/SCM,during calendar month,

GCV= Gross calorific value of gas, in Kcal per SCM during the calendar month,

APC= Normative Auxiliary Power Consumption in percentage

The petitioner has considered Gross Station Heat Rate = 2646 kcal/Kwh Auxiliary Power Consumption (APC) = 6%.

# K. STATUTORY LEVIES / TAXES ETC

It is submitted that in addition to Billing of Fixed/capacity charges & Energy charges as being submitted for approval of this Hon'ble Commission, the Petitioner may be allowed to recover statutory taxes, duties, etc., on actuals.

**8.0** It is also submitted that the Petitioner is presently raising bills for the energy supplied to The Respondent - Electricity Dept., Govt. of Puducherry with normative Gross heat rate of 2646 Kcal/kwh and Auxiliary power consumption of 5.0% w.e.f. 01.04.2017 as energy charges per unit and

` 23.34 crores as capacity charges per annum at 85% PLF for the tariff period 2017-18 vide order dated 31.03.2017 issued by the Hon'ble Commission.

- **9.0** The Accounts of the Petitioner for the year 2015-16 has been audited but not adopted in the AGM, which will be held in the next month and a copy of the Audited Accounts along with the Statutory Auditor's Report including the A.G. Comments received from the C&AG, Chennai are enclosed in the **Annexure-VIII** for perusal.
- 10.0 As regard the Accounts for FY 2016-17, the Petitioner is filing the unaudited accounts for FY 2016-17 as Annexure IX since Statutory auditor would normally commence their audit after adoption of accounts for the FY 2015-16 in the Adjourned Annual General Meeting and the Adjourned AGM would be held in next month. The copies of invoice raised by GAIL for the period 01.04.2017 to 31.10.2017 are attached hereto as Annexure X.

# PRAYER

- **11.0** In view of the above, the Petitioner prays as under
  - i) Approve the tariff for the year 2018-19 as brought out in this Petition as detailed below at 85% PLF.

Fixed cost- ` 30.12 Crores per annum

Variable Energy Charges - As per formula in CERC regulation 2014-

19 clause 30(6)(b)with normative GHR

of 2646 Kcal/kwh and normative APC

of **6%.** 

- ii) Allow the "Normative Annual Plant Availability Factor" @ 78% as laid down in the CERC Regulation 2014-19 vide clause No.36(A) for Karaikal Power Station for the year 2018-19 for full fixed cost recovery.
- iii) Allow capital cost as prayed by the Petitioner.
- iv) Allow the recovery of filing fees as and when paid to the Hon'ble Commission and publication expenses from the beneficiary.
- v) Pass any other order in this regard as the Hon'ble Commission may find appropriate in the circumstances pleaded above.

# PETITIONER – PUDUCHERRY POWER CORPORATION LIMITED

PLACE : Puducherry DATE : 21.11.2017

# BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION GURGAON

# <u>PETITION NO: .....</u> <u>of 2017</u>

- IN THE MATTER OF : Petition under Section 62 and 83 (4) of the Electricity Act 2003 read with chapter-II of the Joint Electricity Regulatory Commission (Terms & Conditions for Determination of Tariff) Regulations, 2009 for Revision of tariff for Karaikal Gas Power Station, (32.5 MW) for the period 2015-16 after the truing up exercise.
- PETITIONER : The Managing Director, Puducherry Power Corporation Ltd. (PPCL), #10, Second Cross, Jawahar Nagar, Boomianpet, Puducherry-605 005.
- RESPONDENT : The Superintending Engineer-cum-HOD, Electricity Department, Govt. of Puducherry, 137, NSC Bose Salai, Puducherry – 605 001.

The Petitioner humbly states that:

- The Petitioner herein the Managing Director of Puducherry Power Corporation Ltd. (PPCL) a Government of Puducherry Undertaking and is a Government Company within the meaning of the Companies Act, 1956. Further, it is a "Generating Company" as defined under Section 2(28) of the Electricity Act, 2003.
- 2) Puducherry Power Corporation Ltd was incorporated on 30.03.1993 with the objective of generating 32.5 MW of Electricity (22.9 MW from gas turbine and 9.6 MW from Steam turbine) at Karaikal which is one of the outlying regions of Union Territory of Puducherry. The required gas of 1.91 lakhs cu.m of gas per day is obtained from the gas wells at Narimanam in the Cauvery basin under an agreement with the GAIL (India) Ltd.

- Karaikal Gas Power Station declared commercial operation w.e.f. 03.01.2000 and is supplying power to Electricity Department, Puducherry under the PPA signed with them on 25.02.2002.
- Hon'ble Commission has notified "Joint Electricity Regulatory Commission (Terms & Conditions for Determination of Tariff) Regulations, 2009" to be effective from 08.02.2010.
- 5) Regulation 12 of the Tariff Regulations 2009 provides

"(1) Each generating company and the licensee shall file tariff application on or before 30<sup>th</sup> November each year with the commission, in the format as may be laid down by the Commission which shall include statements containing calculation of the expected aggregate revenue from charges under its currently ...........Aggregate Revenue Requirement (ARR) during previous year, current year and Ensuing year. The information for the previous year should be based on audited accounts, if available.

......Generating companies shall furnish information in respect of their Generating stations in the Generating formats 1G to 12G."

- 6) In accordance with the above, the petitioner had proposed the tariff for Karaikal Station for the year 2015-16 as per JERC (Terms & Conditions for tariff) Regulations, 2009. As per para 12 of JERC Regulations & accordingly formats 1G to 12G as applicable to generating Companies were filled in and placed at Annexure – I. The petition was filed during 1<sup>st</sup> week of January, 2015.
- 7) The Hon'ble Commission has passed the tariff order dated 31.03.2015 for the year 2015-16 determining the revenue requirements and generation tariff based on the proposed estimated costs and expenses of the Petitioner.
- 8) As per JERC Regulation 8 (2)(i) After audited accounts of a year are made available, the commission shall undertake similar excise as above with reference to the final actual figures as per audited accounts. This exercise with reference to audited accounts shall be called 'Truing Up'.

 Further CERC Regulation 6 (1) of the Tariff Regulations 2009 provides as follows:

(1) The Commission shall carry out truing up exercise along with the tariff petition filed for the next tariff period, with respect to the capital expenditure including additional capital expenditure incurred up to 31.3.2016, as admitted by the Commission after prudence check at the time of truing up.

- In accordance with proviso to the above quoted in JERC Regulation 8 (2)(i)
   & CERC Regulation 6 (1) the petitioner herein, that is PPCL is filing the present petition for revision and determination of tariff for Karaikal Gas Power Station for the period from 01.04.2015 to 31.03.2016.
- 11) The capital cost considered in the present petition is based on the approved capital cost of `150.92 Crores during True-up for the FY 2014-15 as per Hon'ble Commission order dt.31.03.2017. The total expenditure incurred towards erection of R.O. Plant was ` 4.47 crores upto the financial year 2015-16 which includes `18.00 lakhs incurred initially towards Preliminary expenses, Consultancy charges to CEA, Advertising charges, etc., which were directly attributable to the project. Out of `4.47 crores, a sum of 3.92 crores has been admitted by the Hon'ble Commission upto the tariff period 2015-16 and the Corporation has now claimed the difference of under the head Project cost and prayed the Hon'ble Commission to allow the additional cost of `0.55 crores towards R.O Plant under the head Capital cost during the true up of financial year 2015-16. Accordingly the revised Forms indicating year wise actual/projected capital expenditure is enclosed as part of **Annexure – I** herewith (Format 1G to 12G).
- 12) As regards the Normal Plant Availability Factor (NAPAF), considering Hon'ble APTEL judgment dt.21.11.2012, the Hon'ble Commission in its order has also approved NAPAF 85%. Computation of revised tariff is also done with 85% NAPAF.

- 13) It is also submitted to the Hon'ble Commission that while determine the Return on Equity under clause 4.66 of the Tariff order of 2015-16, it has been stated that by the Hon'ble Commission that for the purpose of computation of Return on Equity has considered the 30% of the capital cost as equity and the rate of return on equity at 15.50% as per CERC regulations, 2014 for FY 2015-16. Pending the enactment of Finance Act, 2015, the prevailing effective tax rate is at 33.99% (tax 30% + surcharge 10% + education cess 3%) and the post tax rate of return on equity works out to 23.481% and the Return on Equity will be reviewed at the time of "Review of FY 2015-16" in the light of audited accounts / True up of FY 2014-15.
- 14) It is also submitted to the Hon'ble Commission that the Corporation is allowed to Return on Equity of 15.5% instead of 23.481% vide order dated 31.03.2015 in view of business loss during the financial year 2014-15, for which the Corporation already filed the true up petition for the FY 2014-15 and the order thereon has been issued. In this connection, it is imperative to submit to the Hon'ble Commission that, because of carry forward of loss of 2014-15 to the financial year 2015-16, the Corporation has not paid the Income Tax for the financial year 2015-16 even though there was business income during the financial year 2015-16 due to generation of power for which the Corporation was liable for the payment of Income tax. Now, the Corporation submitted to the Hon'ble Commission to allow the Corporation to charge the Return on Equity of 23.481% instead of 15.5% for the financial year 2015-16 in the true up petition in view of Carry forward of huge loss of the financial year 2014-15, which was (the loss) not shifted to the Respondent and the Corporation shoulder its huge loss without shifting to the Respondent, as a result of which the Corporation has not paid the tax in the tariff period 2015-16 even though Income tax payable / due to the Corporation on business income.
- 15) Further in accordance with the provisions of the JERC Regulation 24 ROE is considered and CERC Regulation 15 (3), for the purpose of computation of the Return on Equity, the grossing up of the base rate has been done with respect to actual tax rate applicable to PPCL for the year 2015-16.

- 16) For computation of the Interest on Loan, the weighted average rate of interest on the basis of actual loan portfolio at the beginning of the year has been applied.
- 17) The tariff calculation based on the above and other applicable provisions, in the formats provided in the Annexure – I of the Tariff Regulations 2009, are enclosed herewith.
- The petitioner respectfully submits that the Audited financial statement for the financial year 2015-16 for the instant station is attached in the Annexure – II.
- 19) It is submitted that the petitioner is filing this tariff petition subject to the outcome of its various appeals pending before different courts and reserves its right to amend the tariff petition as per the outcome in such appeals, if required.
- 20) As submitted above the Petitioner is presently charging tariff for this station based on the Order dated 31.03.2017 in petition No.225/2017. As can be seen from Annexure I, the claim of tariff after truing up exercise is more than that allowed in the order dated 31.03.2015. Since the truing up exercise may take time, it is prayed that Hon'ble Commission may allow the Petitioner to provisionally charge tariff as per this petition for the period 2015-16 till the time truing up exercise is completed and this petition is disposed off. After determination of tariff as per this petition the retrospective adjustment may be allowed to be done along with interest at the rates provided in Regulation 6 of Tariff regulations, 2009.
- 21) The Operation and Maintenance expenses element of Fixed/Capacity charges has been taken @ 35.70 lac/MW as specified by the CERC for small gas turbine for the year of 2015-16 and thereafter the Operation and Maintenance expenses for relevant year of tariff has been worked out considering escalation @ of 6.7% p.a. over the base Operation and Maintenance expenses of 2015-16 as above based on Regulation 27 of the Tariff Regulations, 2009 and the applicable CERC Regulations.
- 22) It is submitted that the Operation and Maintenance expenses for the FY2015-16 as approved by the Hon'ble Commission is only `11.60 crores but

the actual cost of Operation and Maintenance expenses is 21.11 crores and out of 21.11 crores a sum of 5.16 crores was incurred towards procurement of Hot Gas Path Inspection spares for Frame-V Gas turbine. Out of `11.60 crores, `9.90 crores is spent towards Employee benefit expenses, leaving PPCL with no scope for meeting repair and maintenance expenditure. Out of total expenditure of ` 2.30 crores sanctioned towards replacement of corroded structure/pipeline, etc., the Corporation had paid a sum of `87,43,600/- and `94,25,400/- totaling `1,81,69,000/- of which, the Executive Engineer (B&R), Public Works Department, Karaikal has given utilization certificate for a sum of 1,78,11,600/- upto 31.10.2016 and the Corporation has accounted ` 1,56,06,600/- upto 31.12.2015 upto the financial year 2015-16 as per the Utilization certificate issued by the PWD, Karaikal. In this connection, it is submitted to the Hon'ble Commission that, the Commission has allowed to claim a sum of ` 87.00 lakhs during the true-up petition of 2013-14 and a sum of 21.00 lakhs during the true-up petition of 2014-15 and the balance amount of `48,06,600/- (`1,56,06,600 - 87,00,000 - 21,00,000) has to be claimed during the true up petition 2015-16. The Office of the Memorandum vide copy No.D.21044/10/ID(P)D/2012/P3, dt.10.01.2013 in connection with replacing of damaged/corroded structural steel with new Pipe Rack structure from Gas Booster Compressor to Boiler Area inside the Plant area at Karaikal for an estimated cost of 2,29,69,000/- and the Utilization certificate issued by the Executive Engineer (B&R), Public Works Department, Karaikal are enclosed in the Annexure - III.

23) It is submitted to the Hon'ble Commission may allow to recover an amount of ` 48,06,600/- in connection with replacement of corroded structure/pipeline, etc., under the head Operation and Maintenance while carrying out the truing up exercise for the tariff period 01.04.2015 to 31.03.2016. The details of Utilization certificate issued by the Executive Engineer (B&R), Public Works Department, Karaikal are enclosed in the **Annexure – III.** 

- 24) It is respectfully submitted that the above is absolutely necessary for the survival of a small company like the Petitioner since the Operation and Maintenance expenditure is exhausted in routine and other regular maintenance work, thereby hardly leaving any funds in the hands of the Petitioner for carrying out such type of expenditure and repairs. In view of above, the sum of sum of `5.16 crores incurred towards procurement of Hot Gas Path inspection spares for Frame-V Gas Turbine and copy of the supply order is enclosed in the Annexure IV. Further the inspection charges of ` 1.03 crores for hot gas path inspection may also be allowed and copy of the work order along with Invoice are enclosed in the Annexure V. Additional expenses due to enhanced insurance premium payment compared to last year i.e. ` 0.22 crores may be allowed and copies of the letter addressed to the Insurance Co., for renewal of IAR Policy for the FY 2014-15 and 2015-16 are enclosed in the Annexure VI.
- 25) So, it is humbly requested to Hon'ble Commission to kindly consider the above said expenditure as a onetime compensation by exercising its power in the Tariff Regulations, 2009 as under –

## *"43. Power to Remove Difficulties:*

If any difficulty arises in giving effect to any of these Regulations, the Commission, may, by general or specific order, direct the generating company/ licensee to do or undertake things which in the opinion of the Commission are necessary or expedient for removing the difficulties.

## 42. Special Provisions

The Commission may waive any of the provisions of these Regulations in any matter if, in the opinion of the Commission, it is impracticable or inexpedient to proceed as per these Regulations. In such a situation, after recording its reasons, the Commission may adopt any other approach which is reasonable and is consistent with the overall approach of these Regulations."

26) It is submitted that by its very nature, the onetime expenditure as detailed hereinabove are extra-ordinary and therefore it is further humbly requested that the Hon'ble Commission may kindly exercise its powers vested under the Regulations 42 and 43, i.e Special Provisions and Power to Remove Difficulties by relaxing Regulation, 27 i.e Operation & Maintenance expenses as a onetime measure and for granting such additional Operation and Maintenance expenses.

27) The filing fee for the tariff determination has already been paid for the year 2015-2016 as per provisions of CERC (Payment of Fees), Regulation 2008/2012.

Accordingly no fee is payable along with this truing up petition.

# Prayer

In the light of above submissions, the Petitioner, therefore, prays that the Hon'ble Commission may be pleased to:

- i) Carry out the truing up exercise and revise the tariff of Karaikal Power Station for the tariff period 01.04.2015 to 31.03.2016.
- ii) Allow the petitioner to provisionally charge tariff as per this petition till the time the petition is disposed of.
- Allow a sum of ` 48,06,600/- towards replacement of damaged / corroded pipe rack structure as detailed in the Petition.
- iv) Allow a sum of `5.31 Crores towards procurement of Hot Gas Path Inspection spares.
- v) Allow a sum of ` 1.03 crores towards Hot Gas path Inspection Charges.
- vi) Allow the additional expenditure of `0.22 crores incurred towards insurance premium.
- vii) Pass any other order as it may deem fit in the circumstances mentioned above.

# (PETITIONER) PUDUCHERRY POWER CORPORATION LIMITED

PLACE: Puducherry DATE: 21.11.2017

# Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges<sup>1</sup>

#### Name of the Company Name of the Power Station

#### Puducherry Power Corporation LTD. Karaikal Gas Power Station

### Fuel: Natural Gas

|        |  |              | For Preceeding 1st<br>Month (July'15) | For Preceeding 2nd<br>Month (Aug'15) | For Preceeding 3rd<br>Month (Sep'15) |
|--------|--|--------------|---------------------------------------|--------------------------------------|--------------------------------------|
| SI.No. | Month  | Unit         |                                       |                                      |                                      |
|        |  |              | Gas                                   | Gas                                  | Gas                                  |
| 1      | Quantity of gas supplied by GAIL                                       | Cu.m         | 5858790                               | 5602789                              | 5273335                              |
| 2      | Adjustment(+/-) in quantity supplied made by GAIL                      | Cu.m         | -                                     | -                                    | -                                    |
| 3      | Gas supplied by GAIL (1+2)   | Cu.m         | 58,58,790                             | 56,02,789                            | 52,73,335                            |
| 4      | Normative Transit & Handling Losses                                    | Cu.m         | -                                     | -                                    | -                                    |
| 5      | Net Gas Supplied (3-4)   | Cu.m         | 58,58,790                             | 56,02,789                            | 52,73,335                            |
| 6      | Amount charged by the Gas Company                                      | (Rs)         | 74533997                              | 71213008                             | 67910402                             |
| 7      | Adjustment(+/-) in amount charged made by Gas Company                  | (Rs)         | -                                     | -                                    | -                                    |
| 8      | Total amount charged (6+7)   | (Rs)         | 7,45,33,997                           | 7,12,13,008                          | 6,79,10,402                          |
| 9      | Transportation charges by rail / ship / road transport                 | (Rs)         | -                                     | -                                    | -                                    |
| 10     | Adjustment (+/-) in amount charged made by Railways/Transport Company  | (Rs)         | _                                     | -                                    | -                                    |
| 11     | Demurrage Charges, if any  | (Rs)         | -                                     | -                                    | -                                    |
| 12     | Cost of diesel in transporting gas through other system, if applicable | (Rs)         | -                                     | -                                    | -                                    |
| 13     | Total Transportation Charges (9+/-10-11+12)                            | (Rs)         | -                                     | -                                    | -                                    |
| 14     | Total amount Charged for fuel supplied including Transportation (8+13) | (Rs)         | 7,45,33,997                           | 7,12,13,008                          | 6,79,10,402                          |
| 15     | Weighted average GCV of Gas as fired                                   | (kCal/Cu.m)  | 10151.29                              | 10177.32                             | 10092.23                             |
| 16     | Gas consumption #  | KL           |                                       |                                      |                                      |
| 17     | Weighted average rate of Fuel/1000 Cu.m #                              | Rs/1000 cu.m | 12,721.74                             | 12,710.28                            | 12,878.07                            |

Note:

12770.03

<sup>1</sup> Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary

# Additional data

PETITIONER

0.002268563



# GOVERNMENT OF PUDUCHERRY ELECTRICITY DEPARTMENT

137, Nethaji Subhash Chandra Bose Salai, Puducherry - 605 001 Phone: 0413-2334277 (Per), 0413-2336361/65 (PBX), 0413-2331556 (Fax)

Lr.No: 2668/ED/SE-HOD/F-ARR/2017-18

Puducherry, dated. 29-11-2017

To The Secretary, Joint Electricity Regulatory Commission for Goa & UTs, II Floor, HSIIDC Office Complex, Vanijya Nikunj Complex, Udyog Vihar, Phase – V, Gurgaon – 122016, HARYANA.

Madam,

(j. e.

Sub: Electricity Department – Government of Puducherry-Petition-True-up of FY 2016-17, review of FY 2017-18 and ARR with new tariff proposal for FY 2018-19 – Submission - Reg.

I am enclosing six copies of petition with true- up of FY 2016-17, review of FY 2017-18 and ARR with new tariff proposal of FY 2018-19 for favourable consideration of the Honourable Commission.

2. The ARR petition fee of Rs 36,50,000/- (Rupees thirty six lakhs fifty thousands only) is worked out below:

The projected sale of power for FY 2018-19 is 2650 MU.

The petition Fee (@ Re 1/1000 units) is Rs 26,50,000/- plus

Fees towards Annual review of tariff and performance of the Licensee during the control period under MYT frameworks Rs. 10,00,000/-

3. The Petition fee of Rs 36,50,000/- has been sent through RTGS mode in favour of JERC Account no: 09871131000198, Oriental Bank of Commerce on 29/11/2017.

Yours faithfully

(D.RAVI) Superintending Engineer Cum Head of Department Electricity Department Puducherry

Encl: 1. Original petition with affidavit 2. Five copies of the petition

PETITION FOR APPROVAL OF TRUE-UP PETITION FOR FY 2016-17, ANNUAL PERFORMANCE REVIEW FOR FY 2017-18 AND AGGREGATE REVENUE REQUIREMENT (ARR) WITH TARIFF PROPOSAL FOR MYT CONTROL PERIOD FY 2018-19

OF

# **ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY**

**SUBMITTED TO** 

# THE HON'BLE JOINT ELECTRICITY REGULATORY COMMISSION GURGAON

BY

**ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY** 

NOVEMBER 2017

# BEFORE THE HON'BLE JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA AND UNION TERRITORIES

## IN THE MATTER OF:

PETITION FOR FILING OF TRUE-UP PETITION FOR FY 2016-17, ANNUAL PERFORMANCE REVIEW OF FY 2017-18 AND ARR WITH TARIFF PROPOSAL FOR FY 2018-19

## AND

# **IN THE MATTER OF:**

DIMA

PUDUCHERRY-11. REG. No: 6268 / 4-7-08 ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY

PETITIONER

## AFFIDAVIT

I, D.RAVI, Son of Shri G.Dharmalingam aged about 58 years, residing at No 31, 4th Cross, Kurinji Nagar, Puducherry 605 008, the deponent named above do hereby solemnly affirm and state on oath as under:-

1. That the deponent is the Superintending Engineer cum Head of the Department, Electricity Department, Government of Puducherry duly authorised by the Government of Puducherry to make this affidavit on its behalf and the deponent is acquainted with the facts deposed below.

2. I, the deponent named above do hereby verify that the contents of the affidavit and those of the accompanying petition are true to my personal knowledge and verify that no part of this affidavit is false and nothing material has been concealed.

Enclosure:

(i)Six copies of petition regarding filing of true-up petition for FY2016-17, Annual performance review of FY 2017-18 and ARR with tariff proposal for

FY 2018-19.

(Depohent) Electricity Department

I, Su Srinivasaperumal, Advocate, Puducherry, do hereby declare that the person making this affidavit is known to me through the perusal of records and I am satisfied that he is the same person alleging to be deponent himself.

......

SUPERI

Advocates. SRINTVASA PERUMAL, BA,ILB, ADVOCATE & NOTARY PUBLIC (GOVT. OF (NDIA)

6, ANNAI VELANKANNI STO

ENGINEER

Solemnly affirmed before me on this 29<sup>th</sup> day of November 2017, by the deponent who has been identified by the aforesaid Advocate.

I have satisfied myself by examining the deponent that he understood the contents of the affidavit which has been read over and explained to him. He has also been explained about section 193 of Indian Penal Code that whoever intentionally gives false evidence in any of the proceedings of the Commission or fabricates evidence for purpose of being used in any of the proceedings shall be liable for punishment as per law.

PETITION FOR APPROVAL OF TRUE-UP PETITION FOR FY 2016-17, ANNUAL PERFORMANCE REVIEW FOR FY 2017-18 AND AGGREGATE REVENUE REQUIREMENT (ARR) WITH TARIFF PROPOSAL FOR MYT CONTROL PERIOD FY 2018-19

OF

**ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY** 

SUBMITTED TO THE HON'BLE JOINT ELECTRICITY REGULATORY COMMISSION GURGAON

By

**ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY** 

NOVEMBER 2017

# BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA, & 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     | Gol           | Government of India                              |  |
| 26     | HT            | High Tension                                     |  |
| 27     | JERC          | Joint Electricity Regulatory Commission          |  |
| 28     | KSEB          | Kerala State Electricity Board                   |  |
| 29     | KV            | Kilo Volt  |  |
| 30     | kVA           | Kilo Volt Ampere                                 |  |
| 31     | kVAh          | Kilo Volt Ampere Hour                            |  |
| 32     | kW            | Kilo Watt  |  |
| 33     | kWh           | Kilo Watt Hour                                   |  |
| 34     | LT            | Low Tension                                      |  |
| 35     | MNRE          | Ministry of New and Renewable Energy             |  |
| 36     | MOD           | Merit Order Despatch                             |  |
| 37     | MoP           | Ministry of Power                                |  |
| 38     | MOU           | Memorandum of Understanding                      |  |
| 39     | MU            | Million Units (Million kWh)                      |  |
| 40     | MVA           | Mega Volt Ampere                                 |  |
| 41     | MW            | Mega Watt  |  |

True-up for FY2016-17, Review for FY2017-18 and ARR & Tariff Determination for FY2018-19

| Sr. No | Abbreviations | Descriptions  |  |  |
|--------|---------------|---|--|--|
| 42     | MYT           | Multi Year Tariff   |  |  |
| 43     | NFA           | Net Fixed Assets  |  |  |
| 44     | NLC           | Neyveli Lignite Corporation   |  |  |
| 45     | NPCIL         | Nuclear Power Corporation of India Limited                          |  |  |
| 46     | NTP           | National Tariff Policy  |  |  |
| 47     | NTPC          | National Thermal Power Corporation                                  |  |  |
| 48     | 0&M           | Operation & Maintenance   |  |  |
| 49     | PLR           | Prime Lending Rate  |  |  |
| 50     | POC           | Point of Connection   |  |  |
| 51     | РРА           | Power Purchase Agreement  |  |  |
| 52     | PPCL          | Puducherry Power Corporation Limited                                |  |  |
| 53     | R&M           | Repair and Maintenance  |  |  |
| 54     | R-APDRP       | Restructured Accelerated Power Development and Reforms<br>Programme |  |  |
| 55     | REC           | Renewable Energy Certificate  |  |  |
| 56     | ROE           | Return on Equity  |  |  |
| 57     | RPO           | Renewable Purchase Obligation                                       |  |  |
| 58     | RRAS          | Reserves Regulation Ancillary Services                              |  |  |
| 59     | Rs            | Rupees  |  |  |
| 60     | SBI           | State Bank of India   |  |  |
| 61     | SECI          | Solar Energy Corporation of India                                   |  |  |
| 62     | SLDC          | State Load Dispatch Centre  |  |  |
| 63     | SWOT          | Strength, Weakness, Opportunity and Threats                         |  |  |
| 64     | TANGEDCO      | Tamil Nadu Generation and Distribution Company                      |  |  |
| 65     | T&D           | Transmission and Distribution                                       |  |  |
| 66     | TOD           | Time of Day   |  |  |
| 67     | UI Charges    | Unscheduled Interchange Charges                                     |  |  |
| 68     | URS           | Un-requisitioned surplus  |  |  |
| 69     | w.e.f         | With effect from  |  |  |
| 70     | 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, 401.5 km of EHT line, 1401 km of HT line, 2554 nos. of distribution transformers and 5600 km of LT line. The network configuration as on October 2017 is as given below:

| Voltage                    | Lines        | Capacity MVA       | Substations/<br>Transformer | Transformation<br>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            | 297          | (25x3) + (16x25) + | 1.4                         | (20                        |  |
| 110 kV/22-11 kV (UG Cable) | 6.5          | (10x9) + (31.5x2)  | 14                          | 638                        |  |
| Distribution               | Distribution |                    |                             |                            |  |
| 33/11kV                    |              | (5x2)              | 1                           | 10                         |  |
| 22 kV & 11 kV (Overhead)   | 1314         |                    |                             |                            |  |
| 22 kV & 11 kV              | 87           |                    |                             |                            |  |
| (Underground)              | 07           |                    |                             |                            |  |
| LT (Overhead)              | 4737         |                    |                             |                            |  |
| LT (Underground)           | 863          |                    |                             |                            |  |

Table 1-1: Network Configuration (as on October 2017)

# **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 Joint Electricity Regulatory Commission (hereafter referred to as "JERC/ 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 already filed true-up Petition till FY 2015-16 against which the True-up Tariff Order has already been issued by the Hon'ble Commission in respective tariff orders till 16<sup>th</sup> May, 2017.
- 1.3.3 The Hon'ble Commission issued the JERC MYT Regulations in exercise of powers conferred by Section 61, 62, 63 and 86 read with Section 181 of Electricity Act 2003 on 30<sup>th</sup> June, 2014. These regulations were made applicable to all distribution licensees in the State of Goa & Union Territories of Andaman & Nicobar Island, Dadra & Nagar Haveli, Daman & Diu, Chandigarh, Lakshadweep and Puducherry. The Commission has subsequently issued first amendment to the MYT regulations on 10<sup>th</sup> 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 Tariff Order dated 10<sup>th</sup> 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.

1.3.4 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 had 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 05<sup>th</sup> August 2015. The Hon'ble Commission issued the Business Plan Order on 04<sup>th</sup> December, 2015 directing PED to file the MYT petition within one month. PED filed the MYT petition in line with the Tariff Regulations 2009, Business Plan Order, MYT Regulations 2014 and its subsequent amendments. The MYT Tariff order was issued by the Hon'ble Commission on 24<sup>th</sup> May, 2016 approving the ARR (Annual Revenue Requirement) for the MYT Control Period and tariff determination for FY 2016-17. Subsequently, the Hon'ble Commission issued the tariff order for FY 2017-18 vide order dated 16<sup>th</sup> May, 2017.

# 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 for 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 1<sup>st</sup> April 2016.
- 1.4.3 As per the MYT Regulations 2014 and its subsequent amendments, PED is filing the present petition for the approval of the Hon'ble Commission seeking the following.
  - a) Provisional True-up for FY 2016-17,
  - b) Annual Performance Review for FY 2017-18, and
  - c) Tariff Determination for FY 2018-19.
- 1.4.4 The tariff formats as outlined in the MYT Regulations, 2014 and as applicable to PED are provided at the end of this petition.
- 1.4.5 The details for each year are discussed in subsequent chapters and the Tariff Formats are enclosed as per Annexure I.

## 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 10<sup>th</sup> 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 Provisional True-up for FY 2016-17, Annual Performance Review for FY 2017-18 and tariff determination for third year of the MYT Control Period i.e. FY 2018-19.

# 2.1 Truing Up For FY 2016-17

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 is in the process of third party audit of accounts for FY 2016-17. PED is submitting the provisional actual figures of FY 2016-17 for Provisional True-up with provisional accounts as Annexure II with the details of ARR specified in the relevant chapters of this petition. PED further submits that it may provide the final audited accounts of FY 2016-17 during the regulatory process of finalisation of Tariff Order.

# 2.2 Annual Performance Review for FY 2017-18

- 2.2.1 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 10<sup>th</sup> August, 2015. These first amendment regulations govern the tariff determination for the first control period i.e. FY 2016-17 to FY 2018-19.
- 2.2.2 As per Clause 8 of the MYT Regulations, 2014, the Hon'ble Commission shall undertake the Annual Performance Review by considering variations between the approved and revised estimates/actuals of sale of electricity, income and expenditure for the relevant year and permit necessary adjustments/ changes in case such variations are for adequate and justifiable reasons.
- 2.2.3 Accordingly, PED is filing this Annual Performance Review petition for the year FY 2017-18 based on the actual performance during the 1<sup>st</sup> half of the year and the revised estimates for the second half of the year for purchase and sales.

## 2.3 Tariff determination for FY 2018-19

- 2.3.1 The Hon'ble Commission has already approved the ARR for the Control Period FY 2016-17 to FY 2018-19 vide tariff Order dated 24<sup>th</sup> May, 2016. The Hon'ble Commission initially determined the tariff only for the first year i.e. FY 2016-17 of the control period as per its directives in the Business Plan Order issued in Petition no. 181/2015 dated 4<sup>th</sup> December 2015. Subsequently, the Hon'ble Commission issued the tariff order for FY 2017-18 dt. 16<sup>th</sup> may, 2017 approving the tariff for FY 2017-18 and carrying out true-up of FY 2014-15, FY 2015-16 along with review of FY 2016-17.
- 2.3.2 Though the ARR for FY 2018-19 has already been approved by the Hon'ble Commission vide Tariff Order dated 24<sup>th</sup> May, 2016, PED is submitting the revised estimates for the year based on performance in the previous years. The cumulative gap for the FY 2018-19 has been determined based on the gap for previous years and the revenue from existing tariff for the ensuing year.

#### CHAPTER 3. TRUE-UP FOR FY 2016-17

#### 3.1 Preamble

- 3.1.1 This section outlines the performance of Puducherry Electricity Department (PED) for FY 2016-17. PED submits that the audit of the accounts are in the process and therefore it submits the provisional actual for FY 2016-17 in this petition for provisional truing up along with the comparison of the approved figures by Hon'ble Commission vide tariff order dated 16<sup>th</sup> May 2017. 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 2016-17 will be submitted to the Hon'ble Commission during the present MYT regulatory proceedings.
- 3.1.2 This chapter summarizes each of the components of ARR for FY 2016-17 and thereby working out the revenue gap for that year.

#### 3.2 Approved ARR for FY 2016-17

3.2.1 The summary of the charges for FY 2016-17 claimed by the petitioner in the last petition (review of FY 2016-17) and as approved by the Hon'ble Commission in the last Tariff Order dated 16<sup>th</sup> May 2017 is tabulated below:

|        |  |                   |                           | Rs. Crs |
|--------|--|-------------------|---------------------------|---------|
| S. No. | Particulars                            | Claimed in<br>APR | Approved by<br>Commission | Actuals |
| 1      | Cost of power purchase                 | 1056.81           | 1122.12                   | 1066.30 |
| 2      | Employee Costs                         | 89.20             | 85.66                     | 93.69   |
| 3      | Administration and General<br>Expenses | 33.54             | 10.02                     | 12.30   |
| 4      | R&M expenses                           | 19.01             | 18.61                     | 9.38    |
| 5      | Depreciation                           | 29.95             | 29.95                     | 24.81   |
| 6      | Interest & Finance Charges             | 23.06             | 23.06                     | 21.15   |
| 7      | Interest on Working Capital            |                   |                           | -       |
| 89     | Interest on Security Deposit           | 4.00              | 4.00                      | 3.50    |
| 10     | Return on NFA/ Equity                  | 15.68             | 33.25                     | 32.09   |
| 11     | Total Revenue Requirement              | 1271.25           | 1326.65                   | 1263.21 |
| 12     | Less: Non- Tariff Income               | 8.10              | 8.10                      | 12.97   |
|        | Less: Revenue from sale of             |                   |                           |         |
| 13     | surplus power and other CERC           | 5.39              | 5.39                      | 12.45   |
|        | mechanisms/ CGS services               |                   |                           |         |
|        | Net Aggregate Revenue                  | 1257.70           | 1212.10                   | 1007 70 |
| 14     | Requirement                            | 1257.76           | 1313.16                   | 1237.78 |

Table 3-1: APR of FY 2016-17 as per Tariff Order dated 16<sup>th</sup> May 2017

#### **3.3** Number of Consumers

3.3.1 Based on the unaudited accounts, PED submits before the Hon'ble Commission the actual number of consumers for FY 2016-17 in comparison of the approved numbers as highlighted below:

| S. No. | Particulars                  | Approved | Actuals |
|--------|------------------------------|----------|---------|
| 1      | Domestic                     | 315896   | 313367  |
| 2      | ОНОВ                         | 35539    | 35539   |
| 3      | Commercial                   | 53256    | 52087   |
| 4      | Agriculture                  | 6871     | 6900    |
| 5      | Public Lighting              | 50221    | 50250   |
| 6      | LT Industrial & water tanks  | 6594     | 6616    |
| 7      | Total LT                     | 468377   | 464759  |
| 8      | HT 1 Industrial & Commercial | 446      | 439     |
| 9      | HT 2 Government & Water Tank | 54       | 60      |
| 10     | HT 3 EHT                     | 7        | 7       |
| 11     | Total HT                     | 507      | 506     |
| 12     | Total LT and HT              | 468884   | 465265  |

#### Table 3-2: Details of No. of Consumer for FY 2016-17

3.3.2 It is requested to Hon'ble Commission to consider the number of consumers as submitted in the above table for FY 2016-17.

#### 3.4 Energy Sales

3.4.1 The total sales of PED for FY 2016-17 are **2,466.27** MU's. The category wise actual and approved sales for FY 2016-17 are shown in the table below.

|        |                              |          | MU's    |
|--------|------------------------------|----------|---------|
| S. No. | Particulars                  | Approved | Actuals |
| 1      | Domestic                     | 758.39   | 699.82  |
| 2      | ОНОВ                         | 10.00    | 10.21   |
| 3      | Commercial                   | 204.45   | 210.92  |
| 4      | Agriculture                  | 56.85    | 57.28   |
| 5      | Public Lighting              | 24.00    | 24.24   |
| 6      | LT Industrial & Water Tank   | 186.00   | 190.67  |
| 7      | Temporary Supply - LT&HT     | 6.00     | 8.00    |
| 8      | Total LT                     | 1245.69  | 1201.13 |
| 9      | HT 1 Industrial & Commercial | 966.31   | 944.15  |
| 10     | HT 2 Government & Water Tank | 64.01    | 62.03   |
| 11     | HT 3 EHT                     | 290.01   | 258.96  |
| 12     | Total HT                     | 1320.33  | 1265.14 |
| 13     | Total LT and HT              | 2566.17  | 2466.27 |

#### Table 3-3: Sales for FY 2016-17

- 3.4.2 PED submits that the lower sale in FY 2016-17 is due to lesser consumption of power in domestic category and also procurement of power through open access by HT consumers.
- 3.4.3 Based on the above submission PED requests the Hon'ble Commission to approve the actual sales for FY 2016-17 as stated in the table above.

#### 3.5 T&D Loss & Energy Requirement

3.5.1 PED has submitted 13.78% as the T&D losses for FY 2016-17 as compared to that approved by Hon'ble Commission at 11.50%. However, it is comparable with FY 2015-16 losses of 13.59%. The comparison of Energy balance statement and the loss levels based on unaudited accounts and approved figures are shown in the table below:

| S. No. | Particulars  | Approved | Actuals |
|--------|--|----------|---------|
| Α      | ENERGY REQUIREMENT                                     |          |         |
| 1      | Energy Sales within the UT (MUs)                       | 2566.17  | 2466.27 |
| 2      | Energy Drawal by TANGEDCo* (MUs)                       | 18.11    | 16.79   |
| 3      | Sale to Open Access Consumer (MUs)                     | 16.27    | 37.01   |
| 4      | Total Sales (MUs)                                      | 2600.55  | 2520.07 |
| 5      | T&D Losses (%)   | 11.50%   | 13.78%  |
| 6      | Energy Required for the Territories (MUs)              | 2904.10  | 2922.90 |
| 7      | Sales to common pool consumers / UI (MUs)              | 56.14    | 116.67  |
| 8      | Energy Requirement @ periphery (MUs)                   | 2960.24  | 3039.57 |
|        |  |          |         |
| В      | ENERGY AVAILABILITY                                    |          |         |
| 1      | Gross Energy Energy Purchase (MUs)                     | 3010.55  | 3038.87 |
| 2      | Power purchase from Common Pool / UI /<br>Others (MUs) | 14.36    | 25.93   |
| 3      | Open access power at periphery (MUs)                   |          | 37.38   |
| 4      | Total Power Purchase (MUs)                             | 3024.91  | 3102.18 |
| 5      | External Losses (MUs)                                  | 64.67    | 62.61   |
| 6      | Net Energy Availability (MUs)                          | 2960.24  | 3039.57 |

| Table 3-4: T&D Loss and Energy Balance for FY 2016-17 |
|---|
|---|

\*The explanation for the same has been provided in para 3.5.2 below.

- 3.5.2 At Puducherry, pockets of Tamilnadu region are being fed by Puducherry 110kV substation 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 2015-16, 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.
- 3.5.3 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.
- 3.5.4 PED submits that in comparison with the approved figures, actual T&D losses are

higher and therefore request the Hon'ble Commission to approve the T&D Loss of 13.78% for FY 2016-17.

# 3.6 Power Purchase Quantum & Cost for FY 2016-17

- 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.
- 3.6.2 The table below shows the summary of actual (provisional) Power Purchase from various sources along with their costs for FY 2016-17 including Transmission Charges, UI charges and purchase from traders.

|        |                      | Approved (FY 2016-17) |           | Actuals (FY 2016-17) |          | 5-17)     |            |
|--------|----------------------|-----------------------|-----------|----------------------|----------|-----------|------------|
| S. No. | Particulars          | Purchase              | Cost (Rs. | Rate                 | Purchase | Cost (Rs. | Rate       |
|        |                      | (MUs)                 | Cr.)      | (Rs./unit)           | (MUs)    | Cr.)      | (Rs./unit) |
| 1      | NTPC                 | 1030.06               | 300.78    | 2.92                 | 1213.78  | 354.81    | 2.92       |
| 2      | NLC                  | 781.99                | 281.71    | 3.60                 | 584.78   | 215.43    | 3.68       |
| 3      | NPCIL                | 562.14                | 217.51    | 3.87                 | 545.50   | 173.79    | 3.19       |
| 4      | KSEB                 | 41.49                 | 24.17     | 5.83                 | 44.91    | 26.07     | 5.80       |
| 5      | TANGEDCO             | 195.02                | 67.68     | 3.47                 | 167.51   | 61.08     | 3.65       |
| 6      | PPCL                 | 232.16                | 87.17     | 3.75                 | 231.32   | 77.72     | 3.36       |
| 7      | Vallur               | 101.99                | 36.63     | 3.59                 | 123.97   | 55.81     | 4.50       |
| 8      | NTPL                 | 65.70                 | 29.58     | 4.50                 | 127.09   | 56.63     | 4.46       |
| 9      | Over drawal          | 14.36                 | 0.26      | 0.18                 | 25.93    | 0.75      | 0.29       |
| 10     | Transmission Charges |                       | 59.36     |                      |          | 62.20     |            |
| 11     | Rebate               |                       | (9.86)    |                      |          | (17.98)   |            |
| 12     | RPO Obligations      |                       | 27.14     |                      |          |           |            |
| 13     | Total                | 3024.91               | 1122.13   | 3.71                 | 3064.80  | 1066.30   | 3.48       |

Table 3-5: Power Purchase Quantum & Cost for FY 2016-17

- 3.6.3 PED submits that for the FY 2016-17, RPO provision allowed by the Hon'ble Commission was Rs. 27.14 Crs against which the petitioner has not incurred any cost towards meeting the Renewable obligation. The non-compliance is on account of the shortage of funds due to budget constraints. The petitioner has also received 0.50 MUs of physical solar power on account of net metering in Puducherry.
- 3.6.4 The status of RPO compliance is tabulated below for FY 2016-17. The petitioner is making efforts to meet the pending RE obligation in FY 2017-18.

| Particulars   | Total  | Solar<br>Obligation | Non-solar<br>Obligation |
|---|--------|---------------------|-------------------------|
| Sales (MUs)   |        | 2466.27             |                         |
| RPO Obligation (%)                                      | 4.85%  | 1.65%               | 3.20%                   |
| RPO Requirement (MUs)                                   | 119.61 | 40.69               | 78.92                   |
| RPO met thru purchase of physical power<br>/ RECs (MUs) | 0.50   | 0.50                |                         |
| Outstanding RPO @ the end of previous year (MUs)        | 43.00  | -2.64               | 45.64                   |
| RPO pending at the end of the year (MUs)                | 162.11 | 37.56               | 124.56                  |

#### Table 3-6: Status of RPO obligation in FY 2016-17

3.6.5 The petitioner requests the Hon'ble Commission to approve power purchase quantum of 3064.80 MUs and power purchase cost (provisional actual) of Rs. 1066.30 Crs for FY 2016-17.

## 3.7 Operation & Maintenance Expenses

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

" 21. Operation & Maintenance Expenses

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

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

....

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

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

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

- 3.7.2 **Employee Expenses:** PED has computed the O&M (Employee) expense for FY 2016-17 based on the actual employee expenses incurred during the entire year.
- 3.7.2.1 The employee cost incurred during the year for FY 2016-17 is Rs. 93.69 Crores.

|        | Rs. Crs                           |          |         |  |
|--------|-----------------------------------|----------|---------|--|
| S. No. | Particulars                       | Approved | Actuals |  |
|        | Salaries & Allowances             |          |         |  |
| 1      | Salary                            |          | 105.61  |  |
| 2      | Wages                             |          | 0.65    |  |
| 3      | Stipend                           |          | 1.50    |  |
| 4      | Transport Allowance               |          | 0.49    |  |
| 5      | Overtime Allowance                |          | 1.23    |  |
|        | Sub - Total                       |          | 109.46  |  |
| 6      | Less: Add/ Deduct Share of Others |          | 0.86    |  |
|        | Total                             | 85.66    | 108.60  |  |
| 7      | Less: Amount Capitalised          |          | 14.92   |  |
| 8      | Total Employee Expenses           | 85.66    | 93.69   |  |

- 3.7.2.2 PED submits that the transport allowance as included in the Table 3-7 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 while determining the ARR. Therefore, it is submitted that difference to the tune of transport allowance will be there in employee expenses as projected in the table above and employee expense as per accounts.
- 3.7.2.3 PED requests the Hon'ble Commission to kindly approve the actual cost during the year for FY 2016-17 as reflecting in annual accounts.
- 3.7.3 **Repairs & Maintenance Expenses:** The repairs and maintenance cost has been claimed as per expenses actually incurred during FY 2016-17.

|              |                           | Rs. Crs |
|--------------|---------------------------|---------|
| Particulars  | Approved by<br>Commission | Actuals |
| R&M Expenses | 18.61                     | 9.38    |

| -17 |
|-----|
|     |

- 3.7.3.1 As seen from the table above R&M expenses incurred actually for FY 2016-17 are much less than the approved level.
- 3.7.3.2 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.
- 3.7.3.3 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. 9.38 Crs for FY 2016-17 as R&M expenses.

3.7.4 Administration & General expenses: The administrative expense mainly comprise of rents, professional charges, office expenses, etc. The expenses incurred by the petitioner for FY 2016-17 are shown in the table below.

|       |                                  |                           | NS. CIS |  |
|-------|----------------------------------|---------------------------|---------|--|
| S.No. | Particulars                      | Approved by<br>Commission | Actuals |  |
| 1     | Rent,Rate and taxes              |                           | 0.28    |  |
|       | Other Professional charges       |                           |         |  |
| 2     | including regulatory             |                           | 1.54    |  |
| -     | expenses(License and Petition    |                           | 1.54    |  |
|       | fees)                            |                           |         |  |
|       | Office Expenses including Legal, |                           |         |  |
| 3     | professional and special service | 5.23                      | 1.90    |  |
|       | charge                           |                           |         |  |
| 4     | Advertisement & Publicity        |                           | 0.19    |  |
| 5     | Other A&G expenses               | 1                         | 0.18    |  |
| 6     | Others                           |                           | 0.54    |  |
| 7     | Grant in Aid                     |                           |         |  |
| 8     | Other material related expense   |                           | 0.06    |  |
| 9     | EESL Charges                     | 4.79                      | 7.61    |  |
| 10    | Total                            | 10.02                     | 12.30   |  |
| 11    | Add/deduct share of others       |                           |         |  |
| 12    | Total Expenses                   | 10.02                     | 12.30   |  |
| 13    | Less: Capitalised                |                           |         |  |
| 14    | Net expenses                     | 10.02                     | 12.30   |  |
| 15    | Add: Prior period                |                           |         |  |
| 16    | Total A&G Expenses charges to    | 10.02                     | 12.30   |  |
| 10    | revenue                          | 10.02                     | 12.50   |  |

#### Table 3-9 A&G Expenses for FY 2016-17

Rs. Crs

- 3.7.4.1 PED submits that the transport allowance as included in the Table 3-7 is considered under the head of A&G expenses in the accounts. However, in line with the ARR formats, the same has been considered in the employee cost while determining ARR. Therefore, it is submitted that difference to the tune of transport allowance will be there in A&G expenses submitted in above table and A&G expenses as per accounts.
- 3.7.4.2 An amount of Rs. 7.61 Crores has been incurred by PED towards payment of charges to EESL related to DELP scheme approved by the Commission.
- 3.7.4.3 The Hon'ble Commission is therefore requested to approve the A&G expenses of Rs. 12.30 Crs for FY 2016-17.
- 3.7.5 **O&M Expenses Summary:** Based on the foregoing paragraphs, the O&M expenses for the year FY 2016-17 are summarised below:

| S. No. | Particulars             | Approved by<br>Commission | Actuals |
|--------|-------------------------|---------------------------|---------|
| 1      | Total Employee Expenses | 85.66                     | 93.69   |
| 2      | Total R&M Expenses      | 18.61                     | 9.38    |
| 3      | Total A&G Expenses      | 10.02                     | 12.30   |
|        | Total O&M Expenses      | 114.29                    | 115.36  |

#### Table 3-10: O&M Expenses for FY 2016-17

Rs. Crs

Rs Crs

3.7.6 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 115.36 Crs for FY 2016-17 as shown in the table above. The details of O&M expense for FY 2016-17 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 2016-17 comes to around Rs. 660.92 Crs as per provisional accounts. The following table shows the opening balance, additions and closing balance of GFA for FY 2016-17.

|        |  |                           | N3. C13 |
|--------|--|---------------------------|---------|
| S. No. | Particulars  | Approved by<br>Commission | Actuals |
| 1      | Opening value of the assets at the beginning of the year | 660.92                    | 660.92  |
| 2      | Additions during the year                                | 63.40                     | 15.25   |
| 3      | Value of assets sold/disposed off                        |                           | -       |
| 4      | Gross Fixed Assets at the end of the year                | 724.32                    | 676.16  |

#### Table 3-11: GFA for FY 2016-17

- 3.8.2 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 2016-17. PED hereby requests the Hon'ble Commission to approve the actual Gross Fixed Assets opening and additions as submitted above for FY 2016-17.
- 3.8.3 **Depreciation:** As per Regulation 23 of JERC 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. Accordingly, the depreciation rates as specified by CERC have been adopted for calculation of depreciation on different asset categories.
- 3.8.4 As per the GFA and the applicable depreciation rates, PED has calculated the depreciation for the year FY 2016-17 as Rs. 24.81 Crs. The table shows the working of depreciation.

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

| Fable 3-12: 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 2016-17 based on the approved depreciation rates specified by the Hon'ble Commission for different asset class.

|        | Rs. Crs  |                           |         |
|--------|--|---------------------------|---------|
| S. No. | Particulars  | Approved by<br>Commission | Actuals |
| 1      | Opening value of the assets at the beginning of the year | 660.92                    | 660.92  |
| 2      | Additions during the year                                | 63.40                     | 15.25   |
| 3      | Value of assets sold /disposed off                       |                           | -       |
| 4      | Gross Fixed Assets at the end of the year                | 724.32                    | 676.16  |
| 5      | Net Depreciation for the year                            | 36.41                     | 24.81   |

Table 3-13: Depreciation for FY 2016-17

3.8.7 The Hon'ble Commission is requested to approve Rs. 24.81 Crs for FY 2016-17 as submitted in the table above.

#### 3.9 Interest & Finance Charge

3.9.1 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."

3.9.2 The Regulation 24(b) 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.

|        | RS. Urs                             |          |         |
|--------|-------------------------------------|----------|---------|
| S. No. | Particulars                         | Approved | Actuals |
| 1      | Opening Normative Loan              | 139.56   | 139.56  |
| 2      | Add: Normative Loan during the Year | 44.38    | 10.67   |
| 3      | Less: Normative Repayment           | 29.95    | 24.81   |
| 4      | Closing Normative Loan              | 153.99   | 125.43  |
| 5      | Average Normative Loan              | 146.78   | 132.49  |
| 6      | Rate of Interest(@SBAR)             | 14.05%   | 14.05%  |
| 7      | Interest on Normative Loan          | 20.62    | 18.62   |
| 7      | Other Finance Charges               | 2.43     | 2.54    |
| 9      | Total Interest and Finance Charges  | 23.05    | 21.15   |

| Table 3-14: Interest & Finance Charges for FY 2016-17 |
|---|
| Pc Crc  |

- 3.9.3 It is submitted that it has considered an addition of Rs. 15.25 Crs in the Gross Fixed Assets for FY 2016-17, 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 1<sup>st</sup> April of that relevant year.
- 3.9.4 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 3-14 of the Petition
- 3.9.5 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 21.15 Crs as shown in the table for FY 2016-17. 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 As per Regulation 25 of JERC MYT Regulations, 2014, interest on Working Capital for retail supply activity of the licensee shall consist of:
  - Receivables for two months of billing
  - Less power purchase cost of one month
  - Less consumer security deposit but excluding bank guarantee/ fixed deposit receipt
  - Inventory for two months based on annual requirement for previous year.

3.10.2 The petitioner has considered the SBI base rate of 9.30% as prevailing as on 1st April 2016 and accordingly has computed the interest on working capital.

|        |  |          | Rs. Crs |
|--------|--|----------|---------|
| S. No. | Particulars  | Approved | Actuals |
| 1      | Two Months Receivable  | 218.86   | 206.30  |
| 2      | Power Purchase Cost for one month  | 93.51    | 88.86   |
| 3      | Total Consumer Security Deposit  | 178.37   | 177.70  |
| 4      | Consumer Security Deposit excluding<br>Bank Guarantee/ Fixed Deposit Receipts          | 178.37   | 177.70  |
| 5      | Inventory for two months based on<br>Aggregate Revenue Requirement of<br>previous year | 6.77     | 6.78    |
| 6      | Total (1-2-4+5)  | -46.25   | -53.49  |
| 7      | Interest Rate  | 9.30%    | 9.30%   |
| 8      | Interest on Working Capital  | 0.00     | 0.00    |

3.10.3 The Interest on Working Capital approved by the Hon'ble Commission for the FY 2016-17 was Nil and claim by petitioner is also Nil.

#### **3.11** Security Deposits

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

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

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

3.11.2 The prevailing Bank rate is considered at 7.75% as notified by Reserve Bank of India with effect from 06th March 2016.

| S. No. | Particulars                         | Approved | Actuals |
|--------|-------------------------------------|----------|---------|
| 1      | Opening Security Deposit            | 136.67   | 161.58  |
| 2      | Add: Deposits during the year       | 5        | 16.13   |
| 3      | Less: Deposits refunded             |          |         |
| 4      | Less: Deposits n the form of BG/FDR |          |         |
| 5      | Closing Security Deposit            | 141.67   | 177.70  |
| 6      | Bank Rate                           | 7.75%    | 7.75%   |
| 7      | Interest on Security Deposit        | 10.79    | 13.15   |
| 8      | Interest on security deposit paid   |          | 3.50    |

3.11.3 PED submits that even though the total Interest on security deposit is Rs. 13.15 Crs, PED paid Rs. 3.50 Crs to the consumers and the balance is proposed to be paid

during subsequent years. The Hon'ble Commission is requested to approve the Interest on Security Deposit of Rs. 3.50 Crs actually paid as shown in the table above.

## **3.12 Provision for bad debts**

3.12.1 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. "

3.12.2 The petitioner is not claiming any provision for bad debts in for the FY 2016-17 and requests the Hon'ble Commission to consider the same.

| Table 3-17: Bad and Doubtful Debts for FY 2016-17 |
|---|
|---|

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

## 3.13 Return on Capital Base/ Net Fixed Assets

- 3.13.1 The proviso of Regulation 27 of MYT Regulations 2014 provides for entitlement for Return on Equity. As per the regulations, RoE is allowed @16% on 30% of the capital base or actual equity, whichever is lower. However, assets funded by consumer contribution, capital subsidies/grants and corresponding depreciation shall not form part of the capital base.
- 3.13.2 In line with the methodology adopted by the Hon'ble Commission in Tariff order dated 16<sup>th</sup> May, 2017, the capital base for closing of the FY 2015-16 as per audited accounts is considered. Further, an equity addition in FY 2016-17 equal to 30% of asset capitalized in FY 2016-17 has been considered.
- 3.13.3 In line with the MYT regulation and the methodology adopted in the previous tariff order, PED has calculated the Return on Equity as outlined in the following table for FY 2016-17.

| S. No. | Particulars                                 | Approved | Actuals |
|--------|---|----------|---------|
| 1      | Opening equity (30% of GFA)                 | 198.28   | 198.27  |
| 2      | Addition in Equity (30% of addition in GFA) | 19.02    | 4.57    |
| 3      | Closing Equity (1+2)                        | 217.30   | 202.85  |
| 4      | Average Equity Amount                       | 207.79   | 200.56  |
| 6      | Reasonable return @ 16%                     | 33.25    | 32.09   |

#### Table 3-18: Return on Equity for FY 2016-17

Rs. Crs

(Rs (rs)

3.13.4 In view of above, the Hon'ble Commission is requested to kindly allow the above return on equity of **Rs. 32.09 Crs** for FY 2016-17.

## 3.14 Non-Tariff Income

- 3.14.1 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 excluding revenue from sale of UI power in the ARR for FY 2016-17 was Rs. 8.10 Crs.
- 3.14.2 The details of non-tariff income (excluding revenue from UI power and other income) for FY 2016-17 are provided in **Format 20 of the Tariff Filing Formats**
- 3.14.3 The summary of total non-tariff income in line with the Commission's approach is tabulated below:

| S. No. | Particulars                               | Approved | Actuals |
|--------|---|----------|---------|
| 1      | Open access charges for wheeling of power |          | 8.47    |
| 2      | Income from trading of Materials          |          | 0.06    |
| 3      | Misc. Receipts/income                     |          | 4.44    |
| 4      | Total income                              |          | 12.97   |
| 5      | Add: Prior period income                  |          |         |
| 6      | Total Non-Tariff Income                   | 8.10     | 12.97   |

Table 3-19: Non-Tariff Income for FY 2016-17

3.14.4 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of **Rs. 12.97 Crs** for FY 2016-17.

#### 3.15 Revenue from sale of surplus power / other income

- 3.15.1 Revenue of Rs. 12.45 Crs has been earned by the petitioner from sale of power/ UI, URS scheme and RRAS.
- 3.15.2 The detailed break-up of the same is provided in the table below and is requested to

approve the same.

#### Table 3-20: Revenue from sale of surplus power and other income

#### (Rs. Crs)

| S. No. | Particulars                  | Approved | Actuals |
|--------|------------------------------|----------|---------|
| 1      | UI Sales / Sales to Exchange | 5.39     | 10.32   |
| 2      | Income from URS              |          | 1.99    |
| 3      | Income from RRAS             |          | 0.14    |
| 4      | Total                        | 5.39     | 12.45   |

#### 3.16 Revenue from Sale of Power at Existing Tariff

3.16.1 The Revenue from Tariff for FY 2016-17 was Rs. 1,209.09 Crs. Further, Rs 16.99 Crore has been deducted from revenue which was paid to consumers as an incentive for maintaining better power factor, which is in line with treatment done in the audited accounts. The category wise computation of revenue from retail tariff for FY 2016-17 is shown in the Table below.

|        |  |             | Rs. Crs |  |  |
|--------|--|-------------|---------|--|--|
| S. No. | Particulars  | Sales (MUs) |         |  |  |
|        | LT Category  |             |         |  |  |
| 1      | Domestic   | 699.82      | 169.01  |  |  |
| 2      | ОНОВ   | 10.21       | 1.15    |  |  |
| 3      | Commercial   | 210.92      | 128.66  |  |  |
| 4      | Agriculture  | 57.28       | 1.95    |  |  |
| 5      | Public Lighting  | 24.24       | 20.88   |  |  |
| 6      | LT Industrial  | 153.23      | 78.81   |  |  |
| 7      | Water Tank   | 37.44       | 22.11   |  |  |
| 8      | Temporary Supply-LT&HT   | 8.00        | 7.80    |  |  |
|        | Total LT   | 1201.13     | 430.37  |  |  |
|        | HT Category  |             |         |  |  |
| 9      | HT 1 Industrial / Commercial   | 944.15      | 576.35  |  |  |
| 10     | HT 2 - Government & Water Tank                                       | 62.03       | 48.20   |  |  |
| 11     | HT 3 - EHT   | 258.96      | 154.18  |  |  |
| 12     | Total HT   | 1265.14     | 778.72  |  |  |
| 13     | Total LT and HT  | 2466.27     | 1209.09 |  |  |
| 14     | Incentive to consumers   |             | 16.99   |  |  |
| 15     | Total  | 2466.27     | 1192.11 |  |  |
|        | As approved in Tariff order dated<br>16th May, 2017 (excl Surcharge) | 2566.17     | 1230.43 |  |  |

Table 3-21: Revenue from Tariff for FY 2016-17

3.16.2 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 1,192.11 Crs net of incentive paid to consumers.

#### 3.17 Aggregate Revenue Requirement for FY 2016-17

3.17.1 The Aggregate Revenue Requirement for FY 2016-17 as approved by the Hon'ble Commission in the Review of ARR for FY 2016-17 was Rs. 1,313.16 Crs. The calculation for Aggregate Revenue Requirement on the basis of actuals (provisional) for FY 2016-17 is shown below:

| S. No. | Particulars                            | Claimed in<br>APR | Approved by<br>Commission | Actuals |  |
|--------|--|-------------------|---------------------------|---------|--|
| 1      | Cost of power purchase                 | 1056.81           | 1122.12                   | 1066.30 |  |
| 2      | Employee Costs                         | 89.20             | 85.66                     | 93.69   |  |
| 3      | Administration and General<br>Expenses | 33.54             | 10.02                     | 12.30   |  |
| 4      | R&M expenses                           | 19.01             | 18.61                     | 9.38    |  |
| 5      | Depreciation                           | 29.95             | 29.95                     | 24.81   |  |
| 6      | Interest & Finance Charges             | 23.06             | 23.06                     | 21.15   |  |
| 7      | Interest on Working Capital            |                   |                           | -       |  |
| 89     | Interest on Security Deposit           | 4.00              | 4.00                      | 3.50    |  |
| 10     | Return on NFA/ Equity                  | 15.68             | 33.25                     | 32.09   |  |
| 11     | Total Revenue Requirement              | 1271.25           | 1326.65                   | 1263.21 |  |
| 12     | Less: Non- Tariff Income               | 8.10              | 8.10                      | 12.97   |  |
|        | Less: Revenue from sale of             |                   |                           |         |  |
| 13     | surplus power and other CERC           | 5.39              | 5.39                      | 12.45   |  |
|        | mechanisms/CGS services                |                   |                           |         |  |
| 1.4    | Net Aggregate Revenue                  | 1257.70           | 1212.10                   | 1227.70 |  |
| 14     | Requirement                            | 1257.76           | 1313.16                   | 1237.78 |  |

#### Table 3-22: Calculation of ARR for FY 2016-17

3.17.2 The Petitioner hereby requests the Commission to approve the ARR of Rs. 1,237.78 Crs for FY 2016-17 as submitted above.

#### 3.18 Revenue Gap for FY 2016-17

- 3.18.1 The Revenue Gap approved by the Hon'ble Commission for FY 2016-17 was Rs. 82.73 Crs.
- 3.18.2 The Revenue Gap as approved by the Hon'ble Commission and as calculated on the basis of provisional true up of FY 2016-17 is shown in the table below:

| Rs. C | rs |
|-------|----|
|-------|----|

Rs. Crs

| S. No. | Particulars                   | Approved | Actuals |
|--------|-------------------------------|----------|---------|
| 1      | Aggregate Revenue Requirement | 1313.16  | 1237.78 |
| 2      | Revenue from Sale of Power    | 1230.43  | 1192.11 |
| 3      | Revenue Gap/ (Surplus)        | 82.73    | 45.68   |

3.18.3 The, Hon'ble Commission is requested to approve the revenue gap of Rs. 45.68 Crs for FY 2016-17 as shown in the table above.

## CHAPTER 4. ANNUAL PERFORMANCE REVIEW FOR FY 2017-18

## 4.1 Background

- 4.1.1 PED had filed a petition for review of FY 2015-16 and ARR for MYT period FY 2016-17 to FY 2018-19, before the Hon'ble Commission on 04<sup>th</sup> January 2016. The Hon'ble Commission based on the Business Plan Order dated 04<sup>th</sup> December, 2015 and after undertaking a thorough analysis had issued the MYT Order for Control Period FY 2016-17 to FY 2018-19 determining tariff for FY 2016-17 along with the Annual Review for FY 2015-16 and True-up for FY 2013-14 on 24<sup>th</sup> May 2016.
- 4.1.2 This chapter summarizes each of the components of ARR for the second year of the Control Period i.e. FY 2017-18 and requests the Hon'ble Commission to review the performance for FY 2017-18. The Annual Performance Review for FY 2017-18 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.

# 4.2 Approved ARR for FY 2017-18

4.2.1 The summary of the charges for FY 2017-18 as claimed by the petitioner in the last petition and as approved by the Hon'ble Commission in the tariff order dated 16<sup>th</sup> May, 2017 is tabulated below:

|        |  | Rs. Crs.                 |                           |  |
|--------|--|--------------------------|---------------------------|--|
| S. No. | Particulars                                  | Claimed by<br>Petitioner | Approved by<br>Commission |  |
| 1      | Cost of power purchase including RPO         | 1182.27                  | 1182.27                   |  |
| 2      | Employee Cost                                | 81.74                    | 81.74                     |  |
| 3      | Administration and General Expenses          | 5.56                     | 5.56                      |  |
| 4      | R&M Expenses                                 | 22.02                    | 22.02                     |  |
| 5      | Depreciation                                 | 37.96                    | 37.96                     |  |
| 6      | Interest and Finace Charges                  | 33.00                    | 33.00                     |  |
| 7      | Interest on Working Capital +Interest on CSD | 15.35                    | 15.35                     |  |
| 8      | Return on NFA / Equity                       | 21.27                    | 38.51                     |  |
| 9      | Total Revenue Requirement                    | 1399.17                  | 1416.41                   |  |
| 10     | Less: Non- Tariff Income                     | 2.93                     | 2.93                      |  |
| 11     | Net Aggregate Revenue Requirement            | 1396.24                  | 1413.48                   |  |

Table 4-1: Approved ARR of FY 2017-18

#### 4.3 Number of Consumers

4.3.1 The Hon'ble Commission had approved 4.74 Lakh consumers in its Tariff Order dated 24<sup>th</sup> May, 2016 for FY 2017-18. Based on the number of consumers added during the first half of FY 2017-18, PED submits the revised estimates for FY 2017-18 as 4.80 Lakh consumers. A comparison of the revised estimates with earlier approved numbers is shown below:

| S. No. | Particulars                  | Approved | Revised<br>estimates |
|--------|------------------------------|----------|----------------------|
| 1      | Domestic                     | 321112   | 325845               |
| 2      | ОНОВ                         | 35539    | 35537                |
| 3      | Commercial                   | 51460    | 53962                |
| 4      | Agriculture                  | 6836     | 6940                 |
| 5      | Public Lighting              | 51297    | 50434                |
| 6      | LT Industrial & Water Tanks  | 6815     | 6668                 |
| 7      | Total LT                     | 473059   | 479386               |
| 8      | HT 1 Industrial & Commercial | 457      | 453                  |
| 9      | HT 2 Government & Water Tank | 60       | 61                   |
| 10     | HT 3 EHT                     | 8        | 7                    |
| 11     | Total HT                     | 525      | 521                  |
| 12     | Total LT and HT              | 473584   | 479907               |

4.3.2 It is requested to the Hon'ble Commission to consider the revised number of consumers as submitted in the above table for FY 2017-18.

## 4.4 Energy Sales

4.4.1 The Hon'ble Commission had approved sales of 2980.60 MUs in the MYT tariff order dated 26<sup>th</sup> May, 2016 and the same was not revised last year. The revised category wise sales based on H1 FY 2017-18 is shown in the table below.

|        |                              | Approved by            | Revised Estimates |            |  |
|--------|------------------------------|------------------------|-------------------|------------|--|
| S. No. | Particulars                  | Particulars Commission |                   | FY 2017-18 |  |
| 1      | Domestic                     | 891.74                 | 402.35            | 733.82     |  |
| 2      | ОНОВ                         | 10.38                  | 5.11              | 10.21      |  |
| 3      | Commercial                   | 217.71                 | 122.22            | 222.92     |  |
| 4      | Agriculture                  | 57                     | 28.64             | 57.28      |  |
| 5      | Public Lighting              | 29.32                  | 12.12             | 24.24      |  |
| 6      | LT Industrial & Water Tank   | 237.75                 | 99.83             | 199.67     |  |
| 7      | Temporary Supply - LT&HT     |                        | 4.00              | 8.00       |  |
| 8      | Total LT                     | 1443.90                | 674.27            | 1256.13    |  |
| 9      | HT 1 Industrial & Commercial | 1069.53                | 473.12            | 946.24     |  |
| 10     | HT 2 Government & Water Tank | 68.18                  | 34.09             | 68.18      |  |
| 11     | HT 3 EHT                     | 398.99                 | 148.01            | 296.02     |  |
| 12     | Total HT                     | 1536.70                | 655.22            | 1310.45    |  |
| 13     | Total LT and HT              | 2980.60                | 1329.49           | 2566.58    |  |

#### Table 4-3: Sales for FY 2017-18

4.4.2 PED submits that based on actual H1 sales, the energy sales projected for FY 2017-18 is considered two times considering the average sales growth (except for domestic and commercial categories). The sales for domestic and commercial categories for H1 and H2 have been considered in the ratio of 55:45. It is further submitted that still sales in the domestic and industrial category is not expected to grow as approved by the Hon'ble Commission and therefore, the sales projected by the

MUs

petitioner is lower than as approved in the MYT tariff order.

4.4.3 It is requested to Hon'ble Commission to approve the revised sales of 2,566.58 MUs for FY 2017-18.

## 4.5 T&D Loss & Energy Requirement

4.5.1 PED is submitting revised estimate of 13.20% as the T&D loss for FY 2017-18. The Hon'ble Commission had approved T&D loss of 11.25% in Tariff Order for FY 2017-18. The information regarding the loss levels based on H1 and expected loss level for FY 2017-18 is shown in the table below –

|        |  | Approved by | Revised Estimates |            |  |
|--------|--|-------------|-------------------|------------|--|
| S. No. | Particulars  | Commission  | H1 FY 2017-<br>18 | FY 2017-18 |  |
| Α      | ENERGY REQUIREMENT                                     |             |                   |            |  |
| 1      | Energy Sales within the UT (MUs)                       | 2940.49     | 1329.48           | 2566.58    |  |
| 2      | Energy Drawal by TANGEDCo* (MUs)                       |             | 8.39              | 13.98      |  |
| 3      | Sale to Open Access Consumer (MUs)                     |             | 20.22             | 20.22      |  |
| 4      | Total Sales (MUs)                                      | 2940.49     | 1358.09           | 2600.78    |  |
| 5      | T&D Losses (%)   | 11.25%      | 13.20%            | 13.20%     |  |
| 6      | Energy Required for the Territories (MUs)              | 3313.23     | 1564.65           | 2996.34    |  |
| 7      | Sales to common pool consumers / UI (MUs)              |             | 49.61             | 49.61      |  |
| 8      | Energy Requirement @ periphery (MUs)                   | 3313.23     | 1614.26           | 3045.95    |  |
|        |  |             |                   |            |  |
| В      | ENERGY AVAILABILITY                                    |             |                   |            |  |
| 1      | Gross Energy Energy Purchase (MUs)                     | 3468.78     | 1646.34           | 3069.16    |  |
| 2      | Power purchase from Common Pool / UI /<br>Others (MUs) |             | 18.13             | 18.13      |  |
| 3      | Open access power at periphery (MUs)                   |             | 20.39             | 20.39      |  |
| 4      | Total Power Purchase (MUs)                             | 3468.78     | 1684.85           | 3107.68    |  |
| 5      | External Losses (MUs)                                  | 155.55      | 70.59             | 61.73      |  |
| 6      | Net Energy Availability (MUs)                          | 3313.23     | 1614.26           | 3045.95    |  |

Table 4-4: T&D Loss and Energy Balance for FY 2017-18

\*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 substation 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. As the power is being injected into the PED grid and drawn from the sub-station located within Puducherry region, T&D loss are applicable on the power drawn by TNEB feeders.

- 4.5.3 PED submits that it has been achieving significant reduction in T&D 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 T&D loss of <15%, loss reduction trajectory cannot be considered at the same rate considered previously.
- 4.5.4 PED submits the revised estimates of power purchase as against the 3468.78 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.
- 4.5.5 PED submits that in comparison with the approved figures, projected T&D loss is higher but lower than FY 2016-17 losses. Therefore, the petitioner requests the Hon'ble Commission to approve the T&D loss of 13.20% for FY 2017-18.

# 4.6 Power Purchase Quantum & Cost for FY 2017-18

# 4.6.1 Cost of Power Purchase for H1 FY 2017-18

- 4.6.1.1 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.
- 4.6.1.2 The table below shows the summary of Power Purchase from various sources along with their costs for the 1<sup>st</sup> half of FY 2017-18 including transmission charges, UI charges and purchase from traders/exchange.
- 4.6.1.3 The power purchase cost in H1 FY 2017-18 includes supplementary/ prior period charges amounting to Rs. 52.42 Crs.

|        |                      | H1 FY 2017-18 (Actual |           |            |
|--------|----------------------|-----------------------|-----------|------------|
| S. No. | Particulars          | Purchase              | Cost (Rs. | Rate       |
|        |                      | (MUs)                 | Cr.)      | (Rs./unit) |
| 1      | NTPC                 | 629.36                | 184.83    | 2.94       |
| 2      | NLC                  | 386.03                | 150.69    | 3.90       |
| 3      | NPCIL                | 255.04                | 87.08     | 3.41       |
| 4      | KSEB                 | 22.35                 | 14.13     | 6.32       |
| 5      | TANGEDCO             | 113.29                | 41.01     | 3.62       |
| 6      | PPCL                 | 105.70                | 36.46     | 3.45       |
| 7      | Vallur               | 66.31                 | 31.39     | 4.73       |
| 8      | NTPL                 | 68.25                 | 32.32     | 4.74       |
| 9      | Over drawal          | 18.13                 | 1.10      |            |
| 10     | Transmission Charges |                       | 29.97     |            |
| 11     | Rebate               |                       | (9.41)    |            |
| 12     | RPO Compliance Cost  |                       |           |            |
| 13     | Total                | 1664.47               | 599.58    | 3.60       |

Table 4-5: Power Purchase Quantum & Cost for H1-FY 2017-18

# 4.7 Cost of Power Purchase for FY 2017-18

- 4.7.1 **Power Purchase quantum for FY 2017-18 (H1 + H2):** For the year FY 2017-18, PED has projected the power purchase by considering the actual power purchase for the 1<sup>st</sup> half of the year FY 2017-18 (i.e. Apr '17 Sep '17) and considering power purchase under the principle of MOD for second half H2 FY 2017-18. The key assumptions for power purchase costs are as under:
  - a. **MOD for H2 FY 2017-18:** 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 quantum 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 FY 2016-17.
  - c. The variable cost for FY 2017-18 has been computed considering actual average variable cost of each source for first six months period of April-September 2017.
  - 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 2017.
  - e. An additional cost of Rs. 54.04 Crs has been considered for TANGEDCO (Karaikal) in FY 2017-18 pertaining to prior period charges (April 2014 to October 2017) which would be raised in the second half of the current year.

The charges have been determined based on the communication received from TANGEDCO vide letter No. CFC /REV /FC /REV /DFC /R.1 /F.Pondicherry /D.757 /2017, dt. 10.11.2017, towards claim of prior period charges on the basis of tariff order issued by CERC. The letter has been enclosed as Annexure III.

- f. For TANGEDCO (Karaikal), the rate for first seven months of FY 2017-18 has been considered as Rs. 3.62/ kWh and for the remaining five months rate of Rs. 5.47/ kWh has been considered based on the letter mentioned above.
- g. The power purchase cost for power over-drawl from grid is considered on actual basis paid in first six months period of April - September 2017 only. For H2 FY 2017-18, over-drawl is not assumed under the principle of MOD.
- h. PED submits that it is obliged to comply with the Renewable Purchase Obligation of 6.70%. The petitioner plans to procure 133.3 MUs of non-solar RECs in the second half of the year and 0.75 MUs of physical solar power is also accounted under RPO due to net metering. The RPO compliance cost is included in the power purchase cost which is arrived upon as follows.

| Particulars  | Total  | Solar<br>Obligation | Non-solar<br>Obligation |
|--|--------|---------------------|-------------------------|
| Sales (MUs)  |        | 2566.58             |                         |
| RPO Obligation (%)                                     | 6.70%  | 2.50%               | 4.20%                   |
| RPO Requirement (MUs)                                  | 171.96 | 64.16               | 107.80                  |
| RPO met thru purchase of physical power/<br>RECs (MUs) | 134.05 | 0.75                | 133.3                   |
| Cost of RPO compliance thru RECs (Rs. Crs)             |        |                     | 20.00                   |
| Outstanding RPO @ the end of previous year (MUs)       | 162.11 | 37.56               | 124.56                  |
| RPO pending at the end of the year (MUs)               | 200.02 | 100.97              | 99.05                   |

 Table 4-6: RPO Compliance Cost for FY 2017-18

- As outlined in the above table, the estimated cost towards RPO compliance is Rs. 20.00 Crs which the petitioner will be incurring during the second half FY 2017-18.
- j. The Transmission Charges for FY 2017-18 are considered as per POC computation and actually incurred in H1. However, for H2 calculation, the similar amount as charged in H1 of FY 2017-18 has been considered for calculation of total transmission charges.
- 4.7.2 The revised Power Purchase Cost Summary for FY 2017-18 is outlined as below:

|        |                      | FY 2017-18 (Revised Estimates) |                   |                    |
|--------|----------------------|--------------------------------|-------------------|--------------------|
| S. No. | Particulars          | Purchase<br>(MUs)              | Cost (Rs.<br>Cr.) | Rate<br>(Rs./unit) |
| 1      | NTPC                 | 1134.53                        | 319.69            | 2.82               |
| 2      | NLC                  | 642.54                         | 319.22            | 4.97               |
| 3      | NPCIL                | 517.49                         | 163.68            | 3.16               |
| 4      | KSEB                 | 44.70                          | 28.18             | 6.30               |
| 5      | TANGEDCO             | 226.59                         | 153.53            | 6.78               |
| 6      | PPCL                 | 216.37                         | 68.11             | 3.15               |
| 7      | Vallur               | 126.97                         | 62.17             | 4.90               |
| 8      | NTPL                 | 159.97                         | 72.55             | 4.54               |
| 9      | Over drawal          | 18.13                          | 1.10              |                    |
| 10     | Transmission Charges |                                | 59.94             |                    |
| 11     | Rebate               |                                | (18.82)           |                    |
| 12     | RPO Compliance Cost  |                                | 20.00             |                    |
| 13     | Total                | 3087.29                        | 1249.35           | 4.05               |

Table 4-7: Power Purchase Cost for FY 2017-18

4.7.3 The Petitioner hereby requests the Commission to approve the power purchase quantum of 3087.29 MUs and power purchase cost of Rs. 1249.35 Crs (inclusive of rebate) for FY 2017-18 as submitted above.

# 4.8 Operation & Maintenance Expenses

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

# " 21. Operation & Maintenance Expenses

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

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

••••

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

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

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

# 4.8.2 Employee Expenses for FY 2017-18:

- 4.8.2.1 As per Regulation 21.1 of JERC MYT Regulations, 2014 expenses beyond the control of the Distribution Licensee like arrears and impact of pay commission shall be adjusted.
- 4.8.2.2 The relevant extract of regulations is reproduced below for reference.

## "21.1 Employee Cost

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

*EMPn* = (*EMP<sub>b</sub>* \* *WPI* inflation) + *Provision* 

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

- 4.8.2.3 PED has computed the employee expense for FY 2017-18 based on the norms approved in the business plan order dated 04<sup>th</sup> December, 2015 and methodology adopted by the Hon'ble Commission in tariff order dated 16<sup>th</sup> May, 2017.
- 4.8.2.4 For purpose of Review of FY 2017-18, the normative per employee cost has been suitably escalated by moving average WPI of the previous 3 FYs as mentioned below.

| FY         | WPI    | % age<br>increase | Avg 3 Yrs<br>increase |
|------------|--------|-------------------|-----------------------|
| FY 2010-11 | 143.33 |                   |                       |
| FY 2011-12 | 156.13 | 8.93%             |                       |
| FY 2012-13 | 167.62 | 7.36%             |                       |
| FY 2013-14 | 177.64 | 5.98%             |                       |
| FY 2014-15 | 181.19 | 2.00%             | 7.42%                 |
| FY 2015-16 | 176.67 | -2.49%            | 5.11%                 |
| FY 2016-17 | 182.93 | 3.54%             | 1.83%                 |
|            |        |                   | 1.02%                 |

Table 4-8: Calculation of WPI for projection of Per Employee Cost Norms

4.8.2.5 The petitioner has also included an additional cost of Rs. 15.48 Crs (difference between FY 2015-16 and FY 2016-17 actual employee cost) considering the impact of 7<sup>th</sup> Pay Commission and also recruitment of employees in FY 2016-17. The employee cost for FY 2017-18 has been calculated as shown below.

| S. No. | Particulars  | FY 2013-14<br>As approved<br>in the<br>Business Plan | FY 2014-15<br>Escalating Col<br>c @ 7.43% | FY 2015-<br>16<br>Col d @<br>5.11% | FY 2016-17<br>Col e @<br>1.83% | FY 2017-18<br>Col f @<br>1.02% |
|--------|--|--|---|------------------------------------|--------------------------------|--------------------------------|
| а      | b  | С  | d   | е                                  | f                              | g                              |
| 1      | Employee Expenses Per Employee (Rs)                                | 312285   | 335488                                    | 352631                             | 359084                         | 362747                         |
| 2      | No of Employee Per '000 Consumers                                  |  |   |                                    |                                | 4.52                           |
| 3      | No of Consumers '000   |  |   |                                    |                                | 480                            |
| 4      | No of Employee   |  |   |                                    |                                | 2169                           |
| 5      | Employee Expenses  |  |   |                                    |                                | 78.69                          |
| 6      | Impact of 7th Pay Commission and recruitment of employees in FY 17 |  |   |                                    |                                | 15.48                          |
| 7      | Total Employee Expense   |  |   |                                    |                                | 94.17                          |

Table 4-9: Employee Expenses for FY 2017-18

- 4.8.2.6 Therefore, the petitioner requests the Hon'ble Commission to approve Rs. 94.17 Crs as the employee expenses for FY 2017-18.
- 4.8.3 **Repairs & Maintenance Expenses for FY 2017-18:** 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 04<sup>th</sup> December 2015 and opening gross fixed assets for the FY 2017-18. The CPI index of 5.35% and WPI index of 1.02% has been considered in 60:40 ratio.

| S. No. | Particulars                       | FY 2017-18 |
|--------|-----------------------------------|------------|
| 1      | Op. GFA - Rs. Crs                 | 676.16     |
| 2      | K Factor - Approved by Commission | 2.68%      |
| 3      | Inflation index (60:40=CPI:WPI)   | 3.62%      |
| 4      | R&M Expenses - Rs. Crs            | 18.78      |

Table 4-10: R&M Expenses for FY 2017-18

4.8.3.1 In view of the above, the Hon'ble Commission is requested to kindly allow the above R&M Expenses of Rs. 18.78 Crs for FY 2017-18.

# 4.8.4 Administration & General expenses for FY 2017-18:

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

# "21.3 Administrative and General Expenses

A&G expenses shall be computed as per the norm escalated by wholesale price index (WPI) and adjusted by provisions for confirmed initiatives (IT etc. initiatives as proposed by the Distribution Licensee and validated by the Commission) or other expected one-time expenses, and shall be governed by following formula:

 $A\&G_n = (A\&G_b * WPI inflation) + Provision$ where:

A&Gn: A&G expense for the year  $n A \& G_b$ :

A&G expense as per the norm WPI inflation: is the average increase in the Wholesale Price Index (WPI) for immediately preceding three years **Provision:** Cost for initiatives or other one-time expenses as proposed by the Distribution Licensee and validated by the Commission. "

4.8.4.2 The Hon'ble Commission has also taken note of the increase in expenses from FY
 2014-15 onwards and has agreed to consider the same after prudence check.
 *"7.10 The Commission reiterates that as per the Regulations, provisions for*

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

- 4.8.4.3 The A&G expenses have been computed based on the norms approved in the business plan order dated 04<sup>th</sup> December, 2015 and methodology adopted by the Hon'ble Commission in tariff order dated 16<sup>th</sup> May, 2017
- 4.8.4.4 The base expenses have been suitably escalated by the moving average WPI to arrive at the A&G Expenses for the FY 2017-18.
- 4.8.4.5 An amount of Rs. 3.85 Crores has been incurred by PED towards payment of charges to EESL related to DELP scheme approved by the Commission.
- 4.8.4.6 The normative A&G expenses calculated as per norms for FY 2017-18 is tabulated below.

| S. No. | Particulars  | FY 2012-13<br>As approved<br>in the<br>Business Plan | FY 2013-14<br>Escalating<br>Col c @<br>5.98% | FY 2014-<br>15<br>Col d @<br>7.43% | FY 2015-<br>16<br>Col e @<br>5.11% | FY 2016-<br>17 Col f @<br>1.83% | FY 2017-<br>18 Col g<br>@<br>1.02% |
|--------|--|--|--|------------------------------------|------------------------------------|---------------------------------|------------------------------------|
| а      | b  | С  | d  | е                                  | f                                  | g                               | h                                  |
| 1      | Avg A&G Expenses Per Employee (Rs)                 | 17592  | 18644  | 20029                              | 21053                              | 21438                           | 21657                              |
| 2      | Average A&G Expenses Per '000<br>Consumers (Rs)    | 103436   | 109621                                       | 117766                             | 123784                             | 126049                          | 127335                             |
| 3      | No of Employee                                     |  |  |                                    |                                    |                                 | 2169                               |
| 4      | No of Consumers '000                               |  |  |                                    |                                    |                                 | 480                                |
| 5      | A&G Expenses Per Employee - 50%<br>weightage       |  |  |                                    |                                    |                                 | 2.35                               |
| 6      | A&G Expenses Per '000 Consumers -<br>50% weightage |  |  |                                    |                                    |                                 | 3.06                               |
| 7      | A&G Expenses                                       |  |  |                                    |                                    |                                 | 5.40                               |

Table 4-11: A&G Expenses for FY 2017-18

4.8.4.7 The total A&G expenses for FY 2017-18 is tabulated below and it is requested to the Hon'ble Commission to approve the same.

|                   |                           | (Rs. Crs)            |
|-------------------|---------------------------|----------------------|
| Particulars       | Approved by<br>Commission | Revised<br>Estimates |
| A&G Expenses      | 5.56                      | 5.40                 |
| EESL charges      |                           | 3.85                 |
| Total A&G charges | 5.56                      | 9.25                 |

Table 4-12: A&G Expenses for FY 2017-18

(- - )

(Rs Crs)

4.8.5 **O&M Expenses Summary FY 2017-18:** Based on the foregoing paragraphs, the revised O&M expenses for the year FY 2017-18 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

Table 4-13: O&M Expenses for FY 2017-18

|        |                         |                           | (113) 013)           |
|--------|-------------------------|---------------------------|----------------------|
| S. No. | Particulars             | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Total Employee Expenses | 81.74                     | 94.17                |
| 2      | Total R&M Expenses      | 22.02                     | 18.78                |
| 3      | Total A&G Expenses      | 5.56                      | 9.25                 |
| 4      | Total O&M Expenses      | 109.32                    | 122.19               |

4.8.6 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 122.19 Crs as shown in the table above. The details of O&M expense for FY 2017-18 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

# 4.9 Capital Work in Progress, GFA and Depreciation

4.9.1 **GFA**: The Opening Balance of GFA for FY 2017-18 comes to around Rs. 676.16 Crs. The additions to GFA are estimated to be around Rs. 64.49 Crs; the details of which are provided in the table below:

#### Table 4-14: GFA Revised Estimates

|        |  |                           | (Rs. Crs)            |
|--------|--|---------------------------|----------------------|
| S. No. | Particulars  | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Opening value of the assets at the beginning of the year | 765.41                    | 676.16               |
| 2      | Additions during the year                                | 156.14                    | 64.49                |
| 3      | Value of assets sold/disposed off                        |                           | -                    |
| 4      | Gross Fixed Assets at the end of the year                | 921.55                    | 740.66               |

- 4.9.2 PED hereby requests the Hon'ble Commission to approve the revised estimates for Gross Fixed Assets as submitted above.
- 4.9.3 **Depreciation:** "As per Regulation 23 of JERC 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. Accordingly, the depreciation rates as

specified by CERC have been adopted for calculation of depreciation on different asset categories.

4.9.4 As per the GFA and the applicable depreciation rates, PED has calculated the depreciation for the year FY 2017-18 as Rs. 26.51 Crs. The table shows the working of depreciation.

|        |  |                           | (RS. CrS)            |
|--------|--|---------------------------|----------------------|
| S. No. | Particulars  | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Opening value of the assets at the beginning of the year | 765.41                    | 676.16               |
| 2      | Additions during the year                                | 156.14                    | 64.49                |
| 3      | Value of assets sold /disposed off                       |                           | -                    |
| 4      | Gross Fixed Assets at the end of the year                | 921.55                    | 740.66               |
| 5      | Net Depreciation for the year                            | 37.96                     | 26.51                |

| Table 4-15: Depreci | ation for FY | 2017-18 |
|---------------------|--------------|---------|
| Table               |              | 201/-10 |

(Rs. Crs)

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

#### 4.10 Interest & Finance Charge

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

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

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

..

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

4.10.2 The Regulation 24(b) 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 2017-18 is Rs. 21.59 Crs. The summary of Interest and Finance Charges as claimed by the petitioner and as approved by the Commission for FY 2017-18 along with revised estimates is tabulated below:

|        | (Rs. Crs)                           |                           |                      |  |
|--------|-------------------------------------|---------------------------|----------------------|--|
| S. No. | Particulars                         | Approved by<br>Commission | Revised<br>Estimates |  |
| 1      | Opening Normative Loan              | 183.03                    | 125.43               |  |
| 2      | Add: Normative Loan during the Year | 109.3                     | 45.15                |  |
| 3      | Less: Normative Repayment           | 37.96                     | 26.51                |  |
| 4      | Closing Normative Loan              | 254.37                    | 144.06               |  |
| 5      | Average Normative Loan              | 218.70                    | 134.74               |  |
| 6      | Rate of Interest(@SBAR)             | 14.05%                    | 14.05%               |  |
| 7      | Interest on Normative Loan          | 30.73                     | 18.93                |  |
| 7      | Other Finance Charges               | 2.27                      | 2.66                 |  |
| 9      | Total Interest and Finance Charges  | 33.00                     | 21.59                |  |

# Table 4-16: Interest & Finance Charges for FY 2017-18

- 4.10.3 It is submitted that it has considered an addition of Rs. 64.49 Crs in the Gross Fixed Assets for FY 2017-18, 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 1<sup>st</sup> April of that relevant year.
- 4.10.4 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 5-16 of the Petition
- 4.10.5 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 21.59 Crs as shown in the table for FY 2017-18. The details of Interest & Finance charges are provided in Format 10A of the Tariff Filing Formats.

# 4.11 Interest on Working Capital

- 4.11.1 As per Regulation 25 of JERC MYT Regulations, 2014, interest on Working Capital for retail supply activity of the licensee shall consist of:
  - Receivables for two months of billing
  - Less power purchase cost of one month
  - Less consumer security deposit but excluding bank guarantee/ fixed deposit receipt
  - Inventory for two months based on annual requirement for previous year.
- 4.11.2 The petitioner has considered the SBI base rate of 9.30% as prevailing as on 1st April 2017 and accordingly has computed the interest on working capital.

| S. No. | Particulars  | Approved by<br>Commission | Revised<br>Estimates |
|--------|--|---------------------------|----------------------|
| 1      | Two months receivable  | 232.71                    | 240.59               |
| 2      | Power purchase cost for one month  | 98.52                     | 104.11               |
| 3      | Total Consumer security deposit  | 208.72                    | 193.83               |
| 4      | Consumer Security Deposit excluding<br>Bank Guarantee/ Fixed Deposit Receipts          | 208.72                    | 193.83               |
| 5      | Inventory for two months based on<br>Aggregate Revenue Requirement of<br>previous year | 4.65                      | 7.77                 |
| 6      | total (1-2-4+5)  | (69.88)                   | (49.58)              |
| 7      | Interest Rate  | 9.30%                     | 9.30%                |
| 8      | Interest on Working Capital  | 0.00                      | 0.00                 |

Table 4-17: Interest on Working Capital FY 2017-18

4.11.3 The Interest on Working Capital approved by the Hon'ble Commission for the FY 2017-18 was Nil. On the basis of the revised estimates for FY 2017-18, the interest on working capital comes to Nil.

# 4.12 Security Deposits

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

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

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

4.12.2 The prevailing Bank rate is considered at 6.75% as notified by Reserve Bank of India as on 01<sup>st</sup> April 2017.

|        |   |                           | (Rs Crs)             |
|--------|---|---------------------------|----------------------|
| S. No. | Particulars                             | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Opening Security Deposit                | 187.41                    | 177.70               |
| 2      | Add: Deposits during the year           | 21.31                     | 16.13                |
| 3      | Less: Deposits refunded                 |                           |                      |
| 4      | Less: Deposits n the form of BG/FDR     |                           |                      |
| 5      | Closing Security Deposit                | 208.72                    | 193.83               |
| 6      | Bank Rate                               | 7.75%                     | 6.75%                |
| 7      | Interest on Security Deposit            | 15.35                     | 12.54                |
| 8      | Interest on security deposit to be paid |                           | 3.50                 |

4.12.3 PED submits that even though the total Interest on security deposit is Rs. 12.54 Crs, it is expected that the Petitioner would be able to pay Rs. 3.50 Crs to the consumers

and the balance is proposed to be paid during subsequent years. The Hon'ble Commission is requested to approve the Interest on Security Deposit of Rs. 3.50 Crs actually estimated to be paid as shown in the table above.

# 4.13 Provision for bad debts

4.13.1 PED is not claiming any provision for bad & doubtful debts in the ARR of FY 2017-18, for pass through in tariff to consumers and may consider during true-up of the FY 2017-18 as per audited financial statements.

| Particulars            | Approved by<br>Commission | Revised<br>estimate |
|------------------------|---------------------------|---------------------|
| Bad and Doubtful Debts | NIL                       | NIL                 |

Table 4-19: Bad and doubtful debts for FY 2017-18

4.13.2 The Hon'ble Commission is requested to kindly approve the same.

# 4.14 Return on Capital Base/ Net Fixed Assets

- 4.14.1 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.
- 4.14.2 In line with the methodology adopted by the Hon'ble Commission in Tariff order dated 16th May, 2017, the capital base for closing of the FY 2016-17 as per the last chapter is considered. Further, an equity addition in FY 2017-18 equal to 30% of asset capitalized in FY 2017-18 has been considered.
- 4.14.3 In line with the MYT regulation and the methodology adopted in the previous tariff order, PED has calculated the Return on Equity as outlined in the following table for FY 2017-18.

|        |   |                           | (Rs. Crs).           |
|--------|---|---------------------------|----------------------|
| S. No. | Particulars                                 | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Opening equity (30% of GFA)                 | 217.30                    | 202.85               |
| 2      | Addition in Equity (30% of addition in GFA) | 46.84                     | 19.35                |
| 3      | Closing Equity (1+2)                        | 264.14                    | 222.20               |
| 4      | Average Equity Amount                       | 240.72                    | 212.52               |
| 7      | Return on Equity - 16%                      | 38.52                     | 34.00                |

| Table 4-20: Re | turn on | vtiuna | for FY | 2017-18 |
|----------------|---------|--------|--------|---------|

4.14.4 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on equity of Rs. 34.00 Crs.

### 4.15 Non-Tariff Income

- 4.15.1 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 excluding revenue from sale of UI power in the ARR for FY 2017-18 was Rs. 2.93 Crs.
- 4.15.2 The details of non-tariff income (excluding revenue from UI power and other income) for FY 2017-18 are provided in **Format 20 of the Tariff Filing Formats**
- 4.15.3 The summary of total non-tariff income in line with the Commission's approach is tabulated below:

|        |   |                           | (RS. CrS)            |
|--------|---|---------------------------|----------------------|
| S. No. | Particulars                               | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Open access charges for wheeling of power |                           | 4.75                 |
| 2      | Income from trading of Materials          |                           | 0.06                 |
| 3      | Misc. Receipts/income                     |                           | 4.44                 |
| 4      | Total income                              |                           | 9.26                 |
| 5      | Add: Prior period income                  |                           |                      |
| 6      | Total Non-Tariff Income                   | 2.93                      | 9.26                 |

| Table 4-21: Non-tariff | income fo | or FY | 2017-18 |
|------------------------|-----------|-------|---------|
|                        | meenic re |       | 201/ 10 |

4.15.4 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of **Rs. 9.26 Crs** for FY 2017-18.

# 4.16 Revenue from sale of surplus power / other income

- 4.16.1 Revenue of Rs. 4.34 Crs has been earned by the petitioner from sale of power/ UI and URS scheme.
- 4.16.2 The detailed break-up of the same is provided in the table below and is requested to approve the same.

| S. No. | Particulars                  | Approved | Actuals |
|--------|------------------------------|----------|---------|
| 1      | UI Sales / Sales to Exchange |          | 4.14    |
| 2      | Income from URS              |          | 0.20    |
| 3      | Income from RRAS             |          |         |
| 4      | Total                        | -        | 4.34    |

### 4.17 Revenue from Sale of Power at Existing Tariff

4.17.1 The Revenue from Tariff for FY 2017-18 approved by the Hon'ble Commission was Rs. 1,499.91 Crs. The Revenue from Tariff for FY 2017-18 as per revised estimates

comes to Rs. 1,299.37 Crs net of incentive to consumers of Rs. 9.28 Crs. The summary of Revenue from Tariff as approved by the Commission and as per revised estimates for FY 2017-18, is tabulated below:

| S. No.      | Particulars   | Sales (MUs) | Revenue<br>(Rs.Crs) |
|-------------|---|-------------|---------------------|
|             | LT Category   |             |                     |
| 1           | Domestic  | 733.82      | 185.61              |
| 2           | ОНОВ  | 10.21       | 1.20                |
| 3           | Commercial  | 222.92      | 141.28              |
| 4           | Agriculture   | 57.28       | 2.02                |
| 5           | Public Lighting                                     | 24.24       | 21.73               |
| 6           | LT Industrial                                       | 159.23      | 85.15               |
| 7           | Water Tank  | 40.44       | 24.83               |
| 8           | Temporary Supply-LT&HT                              | 8.00        | 8.11                |
| 9           | Total LT  | 1256.13     | 469.95              |
| HT Category |   | -           |                     |
| 10          | HT 1 Industrial / Commercial                        | 946.24      | 602.82              |
| 11          | HT 2 - Government & Water Tank                      | 68.18       | 54.85               |
| 12          | HT 3 - EHT  | 296.02      | 181.03              |
| 13          | Total HT  | 1310.45     | 838.70              |
| 14          | Total LT and HT                                     | 2566.58     | 1308.65             |
| 14          | Incentive to consumers                              |             | 9.28                |
| 15          | Total   | 2566.58     | 1299.37             |
|             | As approved in Tariff order dated<br>16th May, 2017 | 2980.60     | 1499.91             |

Table 4-23: Revenue from Tariff for 2017-18

4.17.2 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 1,299.37 Crs.

# 4.18 Aggregate Revenue Requirement for FY 2017-18

4.18.1 The Aggregate Revenue Requirement for FY 2017-18 approved by the Hon'ble Commission in the Tariff order for FY 2017-18 was Rs. 1413.48 Crs. The calculation for Aggregate Revenue Requirement on the basis of revised estimates for FY 2017-18 is shown below:

| S. No. | Particulars  | Approved by<br>Commission | Revised<br>Estimates |
|--------|--|---------------------------|----------------------|
| 1      | Cost of power purchase                                       | 1182.27                   | 1249.35              |
| 2      | Employee Costs   | 81.74                     | 94.17                |
| 3      | Administration and General Expenses                          | 5.56                      | 9.25                 |
| 4      | R&M expenses   | 22.02                     | 18.78                |
| 5      | Depreciation   | 37.96                     | 26.51                |
| 6      | Interest & Finance Charges                                   | 33.00                     | 21.59                |
| 7      | Interest on Working Capital                                  |                           | -                    |
| 8      | Interest on Security Deposit Paid                            | 15.35                     | 3.50                 |
| 9      | Return on NFA/ Equity  | 38.51                     | 34.00                |
| 10     | Total Revenue Requirement                                    | 1416.41                   | 1457.15              |
| 11     | Less: Non- Tariff Income                                     | 2.93                      | 9.26                 |
| 12     | Less: Revenue from sale of surplus power<br>and other income |                           | 4.34                 |
| 13     | Net Aggregate Revenue Requirement                            | 1413.48                   | 1443.55              |

#### Table 4-24: Calculation of ARR for FY 2017-18

(Rs. Crs)

4.18.2 PED hereby requests the Hon'ble Commission to approve the revised ARR of Rs. 1443.55 Crs for FY 2017-18 as submitted above.

# 4.19 Revenue Gap for FY 2017-18

4.19.1 The Revenue Gap as approved by the Hon'ble Commission for FY 2017-18 and as calculated on the basis of revised estimates in this petition is shown in the table below:

#### Table 4-25: Revenue Gap for FY 2017-18

Rs. Crs

| S. No. | Particulars                                  | Approved by<br>Commission | Revised<br>Estimates |
|--------|--|---------------------------|----------------------|
| 1      | Aggregate Revenue Requirement                | 1413.48                   | 1443.55              |
| 2      | Revenue from Sale of Power @ existing tariff | 1499.91                   | 1299.37              |
| 3      | Revenue Gap/ (Surplus)                       | -86.43                    | 144.18               |

4.19.2 In view of above, the Hon'ble Commission is requested to kindly approve the revenue gap of Rs. 144.18 Crs for FY 2017-18.

### CHAPTER 5. ANNUAL REVENUE REQUIREMENT FOR FY 2018-19

### 5.1 Preamble

- 5.1.1 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.
- 5.1.2 The said MYT Regulations and the Tariff Order dated 10th April, 2015 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.
- 5.1.3 Based on the MYT regulations and its amendment and the Business Plan Order dated 04<sup>th</sup> December, 2015, the petitioner filed the MYT petition for the Control Period i.e. FY 2016-17 to FY 2018-19. After thorough analysis and scrutiny the Hon'ble Commission vide Tariff Order dated 24<sup>th</sup> May, 2016 approved the ARR for all three years of the Control Period and determined tariff for FY 2016-17.
- 5.1.4 The Hon'ble Commission also carried out the review of FY 2016-17, approved the ARR for FY 2017-18 and determined the tariff for FY 2017-18 vide its tariff order dated 16<sup>th</sup> May, 2017.
- 5.1.5 This chapter provides the details of the expenditure approved by the Hon'ble Commission for the FY 2018-19 vide Tariff Order dated 24th May, 2016 and the revised estimates based on the performance in previous year and current year. Accordingly, the revenue from the existing tariff with the Revenue gap / (surplus) is determined so as to propose the tariff design / proposal for recovery from the consumers during the FY 2018-19.

### 5.2 Number of Consumers

5.2.1 The Hon'ble Commission had approved 4.90 Lakh consumers in its Tariff Order dated 24<sup>th</sup> May, 2016 for FY 2018-19. Based on the number of consumers added during the FY 2016-17 and H1 FY 2017-18, PED submits the revised estimates for FY 2018-19 as 4.93 Lakh consumers. A comparison of the revised estimates with earlier approved numbers is shown below:

| S. No. | Particulars                  | Approved | Revised<br>estimates |
|--------|------------------------------|----------|----------------------|
| 1      | Domestic                     | 335412   | 337845               |
| 2      | ОНОВ                         | 35539    | 35537                |
| 3      | Commercial                   | 53224    | 55762                |
| 4      | Agriculture                  | 6836     | 6965                 |
| 5      | Public Lighting              | 51774    | 50609                |
| 6      | LT Industrial & Water Tanks  | 6951     | 6708                 |
| 7      | Total LT                     | 489736   | 493426               |
| 8      | HT 1 Industrial & Commercial | 472      | 470                  |
| 9      | HT 2 Government & Water Tank | 63       | 63                   |
| 10     | HT 3 EHT                     | 8        | 7                    |
| 11     | Total HT                     | 543      | 540                  |
| 12     | Total LT and HT              | 490279   | 493966               |

|  | Table 5-1: Details of Number of Consum | ers for FY 2018-19 |
|--|--|--------------------|
|--|--|--------------------|

5.2.2 It is requested to the Hon'ble Commission to consider the revised number of consumers as submitted in the above table for FY 2018-19.

# 5.3 Energy Sales

- 5.3.1 The Hon'ble Commission had approved sales of 3177.04 MUs in the MYT tariff order dated 26<sup>th</sup> May, 2016.
- 5.3.2 The petitioner submits to the Hon'ble Commission that the sales during the control period have been lower than the sales forecasted and approved in the MYT order dated 26<sup>th</sup> May, 2016. In view of the same the petitioner has re-determined the sales for FY 2018-19 based on the past 4 yr data. The y-o-y growth, 2 year CAGR and 3 year CAGR have been worked out for FY 2014-15 to FY 2017-18 and FY 2014-15 to FY 2016-17.

| Category          | FY 2014-<br>15 | FY 2015-<br>16 | FY 2016- | 2016- FY 2017-<br>17 18 |           | FY 15 to FY 18 |           | 9 FY 17   |
|-------------------|----------------|----------------|----------|-------------------------|-----------|----------------|-----------|-----------|
|                   | 15             | 10             | 17       | 10                      | 3-yr CAGR | 2-yr CAGR      | 2-yr CAGR | Y-o-y gth |
| Domestic          | 635.22         | 674.89         | 699.82   | 733.82                  | 4.93%     | 4.27%          | 4.96%     | 3.69%     |
| Hut services      | 10.00          | 10.00          | 10.21    | 10.21                   | 0.70%     | 1.04%          | 1.04%     | 2.10%     |
| Commercial        | 182.22         | 197.85         | 210.92   | 222.92                  | 6.95%     | 6.15%          | 7.59%     | 6.61%     |
| Agriculture       | 57.00          | 57.00          | 57.28    | 57.28                   | 0.16%     | 0.25%          | 0.25%     | 0.49%     |
| Public lighting   | 26.00          | 26.00          | 24.24    | 24.24                   | -2.31%    | -3.45%         | -3.45%    | -6.78%    |
| Industrial        | 164.05         | 169.23         | 153.23   | 159.23                  | -0.99%    | -3.00%         | -3.36%    | -9.46%    |
| Water tanks       | 34.85          | 35.70          | 37.44    | 40.44                   | 5.09%     | 6.44%          | 3.65%     | 4.88%     |
| Temporary supply  | 6.12           | 6.92           | 8.00     | 8.00                    | 9.34%     | 7.55%          | 14.33%    | 15.68%    |
| Total LT          | 1115.46        | 1177.58        | 1201.13  | 1256.13                 | 4.04%     | 3.28%          | 3.77%     | 2.00%     |
| Industrial        | 805.16         | 817.97         | 869.95   | 861.91                  | 2.30%     | 2.65%          | 3.95%     | 6.36%     |
| Commercial        | 70.13          | 74.02          | 74.20    | 84.33                   | 6.34%     | 6.74%          | 2.86%     | 0.24%     |
| Government        |                |                |          |                         |           |                |           |           |
| Establishment and | 55.96          | 60.02          | 62.03    | 68.18                   | 6.81%     | 6.59%          | 5.28%     | 3.35%     |
| Water Tank        |                |                |          |                         |           |                |           |           |
| Industrial EHT    | 319.60         | 267.99         | 258.96   | 296.02                  | -2.52%    | 5.10%          | -9.99%    | -3.37%    |
| Total HT          | 1250.85        | 1220.00        | 1265.14  | 1310.45                 | 1.56%     | 3.64%          | 0.57%     | 3.70%     |
| Total             | 2366.31        | 2397.58        | 2466.27  | 2566.58                 | 2.75%     | 3.46%          | 2.09%     | 2.86%     |

Table 5-2: Sales of last 4 years and y-o-y growth, 3-yr, 2-yr CAGR

- 5.3.3 Based on the past growth rates the most suitable growth rates have been considered for projection of sales for FY 2018-19.
  - Nil growth rate for OHOB, agriculture, public lighting, temporary supply and EHT industrial categories.
  - Nominal growth rate of 2% has been considered for LT industrial category.
  - No growth in EHT category has been considered due to procurement of power through open access route by few consumers.

| Category                                      | FY 2017-18 | Growth rate considered | FY 2018-19 |
|---|------------|------------------------|------------|
| Domestic                                      | 733.82     | 4.96%                  | 770.23     |
| Hut services                                  | 10.21      | 0.00%                  | 10.21      |
| Commercial                                    | 222.92     | 6.95%                  | 238.42     |
| Agriculture                                   | 57.28      | 0.00%                  | 57.28      |
| Public lighting                               | 24.24      | 0.00%                  | 24.24      |
| Industrial                                    | 159.23     | 2.00%                  | 162.41     |
| Water tanks                                   | 40.44      | 5.09%                  | 42.50      |
| Temporary<br>supply                           | 8.00       | 0.00%                  | 5.00       |
| Total LT                                      | 1256.13    |                        | 1310.28    |
| Industrial                                    | 861.91     | 2.30%                  | 881.70     |
| Commercial                                    | 84.33      | 6.34%                  | 89.68      |
| Government<br>Establishment<br>and Water Tank | 68.18      | 5.28%                  | 71.78      |
| Industrial EHT                                | 296.02     | 0.00%                  | 296.02     |
| Total HT                                      | 1310.45    |                        | 1339.18    |
| Total   | 2566.58    |                        | 2649.46    |

Table 5-3: Sales projection for FY 2018-19 considering FY 2017-18 as base

5.3.4 The sales approved in MYT order and the revised category wise sale for FY 2018-19 is shown in the table below.

|        |                              |                           | MUs                  |
|--------|------------------------------|---------------------------|----------------------|
| S. No. | Particulars                  | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Domestic                     | 970.39                    | 770.23               |
| 2      | ОНОВ                         | 10.38                     | 10.21                |
| 3      | Commercial                   | 228.62                    | 238.42               |
| 4      | Agriculture                  | 57                        | 57.28                |
| 5      | Public Lighting              | 30.51                     | 24.24                |
| 6      | LT Industrial & Water Tank   | 252.37                    | 204.91               |
| 7      | Temporary Supply - LT&HT     |                           | 5.00                 |
| 8      | Total LT                     | 1549.27                   | 1310.28              |
| 9      | HT 1 Industrial & Commercial | 1133.7                    | 971.38               |
| 10     | HT 2 Government & Water Tank | 71.14                     | 71.78                |
| 11     | HT 3 EHT                     | 422.93                    | 296.02               |
| 12     | Total HT                     | 1627.77                   | 1339.18              |
| 13     | Total LT and HT              | 3177.04                   | 2649.46              |

#### Table 5-4: Sales for FY 2018-19

5.3.5 It is requested to Hon'ble Commission to approve the revised sales of 2,649.46 MUs

for FY 2018-19.

# 5.4 T&D Loss & Energy Requirement

5.4.1 PED is submitting revised estimate of 12.50% as the T&D loss for FY 2018-19. The Hon'ble Commission had approved T&D loss of 11.00% in the MYT Tariff Order dated 26<sup>th</sup> May, 2016 for FY 2018-19. The information regarding the loss levels and energy balance for FY 2018-19 is shown in the table below –

| S. No. | Particulars                               | Approved by<br>Commission | Revised<br>Estimates |
|--------|---|---------------------------|----------------------|
| Α      | ENERGY REQUIREMENT                        |                           |                      |
| 1      | Energy Sales within the UT (MUs)          | 3136.93                   | 2649.46              |
| 2      | T&D Losses (%)                            | 11.00%                    | 12.50%               |
| 3      | Energy Required for the Territories (MUs) | 3524.64                   | 3027.96              |
| 4      | Sales to common pool consumers / UI (MUs) | 0.00                      | 0.00                 |
| 5      | Energy Requirement @ periphery (MUs)      | 3524.64                   | 3027.96              |
|        |   |                           |                      |
| В      | ENERGY AVAILABILITY                       |                           |                      |
| 1      | Gross Energy Energy Purchase (MUs)        | 3691.08                   | 3083.47              |
| 2      | External Losses (MUs)                     | 166.44                    | 55.51                |
| 3      | Net Energy Availability (MUs)             | 3524.64                   | 3027.96              |

Table 5-5: T&D Loss and Energy Balance for FY 2018-19

\*The explanation for the same has been provided in para 5.4.2 below.

- 5.4.2 At Puducherry, pockets of Tamilnadu region are being fed by Puducherry 110kV substation 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. As the power is being injected into the PED grid and drawn from the sub-station located within Puducherry region, T&D loss are applicable on the power drawn by TNEB feeders.
- 5.4.3 PED submits that it has been achieving significant reduction in T&D 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 T&D loss of <15%, loss reduction trajectory cannot be considered at the same rate considered previously.
- 5.4.4 PED submits the revised estimates of power purchase as against the 3691.08 MUs

approved by the Hon'ble Commission. PED hereby submits that the power purchase is projected on the principles of MOD and accordingly the energy balance has been revised.

5.4.5 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 T&D Loss of 12.50% for FY 2018-19.

# 5.5 Power Purchase Quantum & Cost for FY 2018-19

- 5.5.1 PED will meet its total energy requirement from its allocation from the Central Generating Stations (CGS) and state utilities like TANGEDCO and PPCL. PPCL is a generating company within the UT of Puducherry catering to Karaikal region of PED.
- 5.5.2 **Mahe Region:** It is submitted to the Hon'ble Commission that as of now, the requirement of power for Mahe region is being availed from the KSEB Limited. But in order to avail power from Central Generating Stations (CGS) for Mahe region, concurrence of the Southern Regional Power Committee (SRPC) has been obtained and KSEB Limited has also been requested to permit to draw power from the CGS through their transmission system. The issue of concurrence by KSEB Limited is in its final stage and as such it is proposed to draw the power from CGS for the requirement of Mahe region for FY 2018-19. In line with the same, drawal from KSEB has not been considered by the petitioner in FY 2018-19.
- 5.5.3 **TANGEDCO (karaikal):** It is submitted to the Hon'ble Commission that at present, the requirement of power for Karaikal region is being met from the state owned gas based generating station and purchasing power from NLC TS-I through TANGEDCO. In order to receive/ avail power from the CGS, a 230 / 110 kV Sub-station is under construction at Karaikal and its associated 230 kV transmission line is being constructed by M/s Power Grid from Neyveli. The work is expected to be completed in the first quarter of the FY 2018-19. Therefore in line with the same, the department has considered procurement of power to an extent of 50 MUs in FY 2018-19 from NLC TS-I through TANGEDCO and once the 230/110 kV sub-station is commissioned, the requirement for the Karaikal region over and above the availability from the State Owned Power plant will be met from the CGS.
- 5.5.4 For the year FY 2018-19, PED has projected the power purchase by considering the availability from each source and applying the principle of MOD. The key assumptions for power purchase costs are as under:
  - a. **MOD for FY 2018-19:** The power purchase has been considered under the principle of MOD. The must run stations has been identified as all the NPCIL

plants, 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 FY 2016-17.
- c. The variable cost for FY 2018-19 has been computed considering actual average variable cost of each source for first six months period of April-September 2017.
- d. PED submits that it is obliged to comply with the Renewable Purchase Obligation of 9.00%. The petitioner plans to procure 242.12 MUs of non-solar RECs and 196.35 MUs of physical solar power in FY 2018-19. The RPO compliance cost is included in the power purchase cost which is arrived upon as follows. The cost of procuring 196.35 MUs of solar power has been considered under a separate head in the power purchase cost amounting to Rs. 67.85 Crs at Rs. 3.50/ unit.

| Particulars   | Total   | Solar<br>Obligation | Non-solar<br>Obligation |  |
|---|---------|---------------------|-------------------------|--|
| Sales (MUs)   | 2649.46 |                     |                         |  |
| RPO Obligation (%)                                      | 9.00%   | 3.60%               | 5.40%                   |  |
| RPO Requirement (MUs)                                   | 238.45  | 95.38               | 143.07                  |  |
| RPO to met thru purchase of physical power / RECs (MUs) | 438.47  | 196.35              | 242.12                  |  |
| Cost of RPO compliance thru<br>RECs (Rs. Crs)           |         |                     | 24.21                   |  |
| Outstanding RPO @ the end of previous year (MUs)        | 200.02  | 100.97              | 99.05                   |  |
| RPO pending at the end of the year (MUs)                | 0.01    | 0.00                | 0.00                    |  |

Table 5-6: RPO Compliance Cost for FY 2018-19

- e. As outlined in the above table, the estimated cost towards RPO compliance is Rs. 24.21 Crs which the petitioner will be incurring during FY 2018-19.
- f. The Transmission Charges for FY 2018-19 are considered same as projected in FY 2017-18.
- 5.5.5 The revised Power Purchase Cost Summary for FY 2018-19 is outlined as below:

|        |                                    | Approved          |                   |                    | Revised Estimates |                   |                    |  |
|--------|------------------------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|--|
| S. No. | Particulars                        | Purchase<br>(MUs) | Cost (Rs.<br>Cr.) | Rate<br>(Rs./unit) | Purchase<br>(MUs) | Cost (Rs.<br>Cr.) | Rate<br>(Rs./unit) |  |
|        |                                    | • •               | •                 | • • •              |                   | •                 |                    |  |
| 1      | NTPC                               | 1335.36           | 370.00            | 2.77               | 1134.53           | 347.13            | 3.06               |  |
| 2      | NLC                                | 942.38            | 279.58            | 2.97               | 588.50            | 227.27            | 3.86               |  |
| 3      | NPCIL                              | 573.83            | 187.73            | 3.27               | 613.28            | 195.73            | 3.19               |  |
| 4      | KSEB                               | 44.02             | 25.43             | 5.78               | 0.00              | 0.00              | 0.00               |  |
| 5      | TANGEDCO                           | 328.17            | 113.87            | 3.47               | 50.00             | 27.35             | 5.47               |  |
| 6      | PPCL                               | 234.07            | 106.42            | 4.55               | 216.37            | 68.11             | 3.15               |  |
| 7      | Vallur                             | 109.84            | 41.86             | 3.81               | 126.97            | 60.53             | 4.77               |  |
| 8      | NTPL                               | 123.43            | 34.98             | 2.83               | 159.97            | 72.55             | 4.54               |  |
| 9      | RE power / solar power<br>purchase |                   |                   |                    | 193.85            | 67.85             | 3.50               |  |
| 10     | Transmission Charges               |                   | 75.18             |                    |                   | 59.94             |                    |  |
| 11     | Rebate                             |                   | (19.28)           |                    |                   | (18.82)           |                    |  |
| 12     | RPO Compliance Cost                |                   | 33.92             |                    |                   | 24.21             |                    |  |
| 13     | Total                              | 3691.08           | 1249.70           | 3.39               | 3083.47           | 1131.85           | 3.67               |  |

Table 5-7: Power Purchase Cost for FY 2018-19

5.5.6 The Petitioner hereby requests the Hon'ble Commission to approve the power purchase quantum of 3083.47 MUs and power purchase cost of Rs. 1131.85 Crs (inclusive of rebate) for FY 2018-19 as submitted above.

# 5.6 Operation & Maintenance Expenses

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

"21. Operation & Maintenance Expenses

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

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

••••

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

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

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

# 5.6.2 Employee Expenses for FY 2018-19:

- 5.6.2.1 As per Regulation 21.1 of JERC MYT Regulations, 2014 expenses beyond the control of the Distribution Licensee like arrears and impact of pay commission shall be adjusted.
- 5.6.2.2 The relevant extract of regulations is reproduced below for reference.

# "21.1 Employee Cost

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

*EMPn* = (*EMP<sub>b</sub>* \* *WPI* inflation) + *Provision* 

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

- 5.6.2.3 PED has computed the employee expense for FY 2018-19 based on the norms approved in the business plan order dated 04<sup>th</sup> December, 2015 and methodology adopted by the Hon'ble Commission in tariff order dated 16<sup>th</sup> May, 2017.
- 5.6.2.4 For purpose of projection for FY 2017-18, the normative per employee cost has been suitably escalated by moving average WPI of the previous 3 FYs as mentioned below.

| FY         | WPI    | % age<br>increase | Avg 3 Yrs<br>increase |
|------------|--------|-------------------|-----------------------|
| FY 2010-11 | 143.33 |                   |                       |
| FY 2011-12 | 156.13 | 8.93%             |                       |
| FY 2012-13 | 167.62 | 7.36%             |                       |
| FY 2013-14 | 177.64 | 5.98%             |                       |
| FY 2014-15 | 181.19 | 2.00%             | 7.42%                 |
| FY 2015-16 | 176.67 | -2.49%            | 5.11%                 |
| FY 2016-17 | 182.93 | 3.54%             | 1.83%                 |
|            |        |                   | 1.02%                 |

Table 5-8: Calculation of WPI for projection of Per Employee Cost Norms

5.6.2.5 The petitioner has also included the Rs. 15.48 Crs (difference between FY 2015-16 and FY 2016-17 actual employee cost) considering the impact of 7<sup>th</sup> Pay Commission and recruitment of employees in FY 2016-17. The employee cost for FY 2018-19 has been calculated as shown below.

| S. No. | Particulars  | FY 2013-14<br>As approved<br>in the<br>Business Plan | FY 2014-15<br>Escalating Col<br>c @ 7.43% | FY 2015-16<br>Col d @<br>5.11% | FY 2016-17<br>Col e @<br>1.83% | FY 2017-18<br>Col f @<br>1.02% | FY 2018-19<br>Col g @<br>1.02% |
|--------|--|--|---|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| а      | b  | С  | d   | е                              | f                              | g                              | h                              |
| 1      | Employee Expenses Per Employee (Rs)                                | 312285   | 335488                                    | 352631                         | 359084                         | 362747                         | 366447                         |
| 2      | No of Employee Per '000 Consumers                                  |  |   |                                |                                | 4.52                           | 4.52                           |
| 3      | No of Consumers '000   |  |   |                                |                                | 480                            | 494                            |
| 4      | No of Employee   |  |   |                                |                                | 2169                           | 2233                           |
| 5      | Employee Expenses  |  |   |                                |                                | 78.69                          | 81.82                          |
| 6      | Impact of 7th Pay Commission and recruitment of employees in FY 17 |  |   |                                |                                | 15.48                          | 15.48                          |
| 7      | Total Employee Expense   |  |   |                                |                                | 94.17                          | 97.30                          |

Table 5-9: Employee Expenses for FY 2018-19

- 5.6.2.6 Therefore, the petitioner requests the Hon'ble Commission to approve Rs. 97.30 Crs as the employee expenses for FY 2018-19.
- 5.6.3 **Repairs & Maintenance Expenses for FY 2018-19:** 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 04<sup>th</sup> December 2015 and opening gross fixed assets for the FY 2018-19. The CPI index of 5.35% and WPI index of 1.02% has been considered in 60:40 ratio.

Table 5-10: R&M Expenses for FY 2018-19

| S. No. | Particulars                       | FY 2018-19 |
|--------|-----------------------------------|------------|
| 1      | Op. GFA - Rs. Crs                 | 740.66     |
| 2      | K Factor - Approved by Commission | 2.68%      |
| 3      | Inflation index (60:40=CPI:WPI)   | 3.62%      |
| 4      | R&M Expenses - Rs. Crs            | 20.57      |

5.6.3.1 In view of the above, the Hon'ble Commission is requested to kindly allow the above R&M Expenses of Rs. 20.57 Crs for FY 2018-19.

### 5.6.4 Administration & General expenses for FY 2018-19:

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

### "21.3 Administrative and General Expenses

A&G expenses shall be computed as per the norm escalated by wholesale price index (WPI) and adjusted by provisions for confirmed initiatives (IT etc. initiatives as proposed by the Distribution Licensee and validated by the Commission) or other expected one-time expenses, and shall be governed by following formula:

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

where:

A&Gn: A&G expense for the year n A&G<sub>b</sub>:

A&G expense as per the norm WPI inflation: is the average increase in the Wholesale Price Index (WPI) for immediately preceding three years **Provision:** Cost for initiatives or other one-time expenses as proposed by the Distribution Licensee and validated by the Commission. "

- 5.6.4.2 The Hon'ble Commission has also taken note of the increase in expenses from FY 2014-15 onwards and has agreed to consider the same after prudence check. *"7.10 The Commission reiterates that as per the Regulations, provisions for one-time expenses are there and the same shall be allowed on 'as and when basis' after due prudence check by the Commission."*
- 5.6.4.3 The A&G expenses have been computed based on the norms approved in the business plan order dated 04<sup>th</sup> December, 2015 and methodology adopted by the Hon'ble Commission in tariff order dated 16<sup>th</sup> May, 2017
- 5.6.4.4 The base expenses have been suitably escalated by the moving average WPI to arrive at the A&G Expenses for the FY 2018-19.
- 5.6.4.5 An amount of Rs. 5.00 Crores has been projected to be incurred by PED towards payment of charges to EESL related to DELP scheme approved by the Commission.
- 5.6.4.6 **Smart Grid Project:** Apart from the above charges over the above the normative A&G expense, PED will incur additional charges towards payment related to smart grid project being implemented in Puducherry. A Smart Grid Pilot Project envisaging providing of 35600 Nos. of Smart Meters in the Boulevard Area and in the LT CT services is under execution. The project has also been approved by the Hon'ble Commission vide its order dated 25<sup>th</sup> April, 2016. The work of installation of meters on Investor and Service provider Model has been awarded to M/s Dong Fang Electronics Company Limited. The work is expected to be completed in the first quarter of FY 2018-19 and thereafter the system will be under trial operation for 3 months. Considering the above facts, payment of Rs.2.40 Crs to M/s Dong Fang Electronics Company Limited has been considered in under A&G expenses for the FY 2018-19.
- 5.6.4.7 The normative A&G expenses calculated as per norms for FY 2018-19 is tabulated below.

| S. No. | Particulars  | FY 2012-13<br>As approved<br>in the<br>Business Plan | FY 2013-14<br>Escalating<br>Col c @<br>5.98% | FY 2014-<br>15<br>Col d @<br>7.43% | FY 2015-<br>16<br>Col e @<br>5.11% | FY 2016-<br>17 Col f @<br>1.83% | FY 2017-<br>18 Col g<br>@<br>1.02% | FY 2018-<br>19 Col h<br>@<br>1.02% |
|--------|--|--|--|------------------------------------|------------------------------------|---------------------------------|------------------------------------|------------------------------------|
| а      | b  | С  | d  | е                                  | f                                  | g                               | h                                  | i                                  |
| 1      | Avg A&G Expenses Per Employee (Rs)                 | 17592  | 18644  | 20029                              | 21053                              | 21438                           | 21657                              | 21878                              |
| 2      | Average A&G Expenses Per '000<br>Consumers (Rs)    | 103436   | 109621                                       | 117766                             | 123784                             | 126049                          | 127335                             | 128634                             |
| 3      | No of Employee                                     |  |  |                                    |                                    |                                 | 2169                               | 2233                               |
| 4      | No of Consumers '000                               |  |  |                                    |                                    |                                 | 480                                | 494                                |
| 5      | A&G Expenses Per Employee - 50%<br>weightage       |  |  |                                    |                                    |                                 | 2.35                               | 2.44                               |
| 6      | A&G Expenses Per '000 Consumers -<br>50% weightage |  |  |                                    |                                    |                                 | 3.06                               | 3.18                               |
| 7      | A&G Expenses                                       |  |  |                                    |                                    |                                 | 5.40                               | 5.62                               |

#### Table 5-11: A&G Expenses for FY 2018-19

5.6.4.8 The total A&G expenses for FY 2018-19 is tabulated below and it is requested to the Hon'ble Commission to approve the same.

|  |                           | (Rs. Crs)            |
|--|---------------------------|----------------------|
| Particulars  | Approved by<br>Commission | Revised<br>Estimates |
| A&G Expenses   | 6.05                      | 5.62                 |
| Payment of investor charges towards Smart grid project |                           | 2.40                 |
| EESL charges   |                           | 5.00                 |
| Total A&G charges                                      | 6.05                      | 13.02                |

5.6.5 **O&M Expenses Summary FY 2018-19:** Based on the foregoing paragraphs, the revised O&M expenses for the year FY 2018-19 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

| S. No. | Particulars             | Approved by<br>Commission | Revised<br>Estimates |
|--------|-------------------------|---------------------------|----------------------|
| 1      | Total Employee Expenses | 88.94                     | 97.30                |
| 2      | Total R&M Expenses      | 26.51                     | 20.57                |
| 3      | Total A&G Expenses      | 0.00                      | 13.02                |
| 4      | Total O&M Expenses      | 115.45                    | 130.88               |

Table 5-13: O&M Expenses for FY 2018-19

(Rs. Crs)

5.6.6 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 130.88 Crs as shown in the table above. The details of O&M expense for FY 2018-19 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

# 5.7 Capital Work in Progress, GFA and Depreciation

5.7.1 **GFA**: The Opening Balance of GFA for FY 2018-19 comes to around Rs. 740.66 Crs. The additions to GFA are estimated to be around Rs. 54.31 Crs; the details of which are provided in the table below:

#### Table 5-14: GFA Revised Estimates

| (Rs. | Crs) |
|------|------|
|      |      |

(Rs. Crs)

| S. No. | Particulars  | Approved by<br>Commission | Revised<br>Estimates |
|--------|--|---------------------------|----------------------|
| 1      | Opening value of the assets at the beginning of the year | 921.55                    | 740.66               |
| 2      | Additions during the year                                | 143.86                    | 54.31                |
| 3      | Value of assets sold/disposed off                        |                           | -                    |
| 4      | Gross Fixed Assets at the end of the year                | 1065.41                   | 794.97               |

- 5.7.2 PED hereby requests the Hon'ble Commission to approve the revised estimates for Gross Fixed Assets as submitted above.
- 5.7.3 **Depreciation:** "As per Regulation 23 of JERC 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. Accordingly, the depreciation rates as specified by CERC have been adopted for calculation of depreciation on different asset categories.
- 5.7.4 As per the GFA and the applicable depreciation rates, PED has calculated the depreciation for the year FY 2018-19 as Rs. 29.65 Crs. The table shows the working of depreciation.

|        |  |                           | (                    |
|--------|--|---------------------------|----------------------|
| S. No. | Particulars  | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Opening value of the assets at the beginning of the year | 921.55                    | 740.66               |
| 2      | Additions during the year                                | 143.86                    | 54.31                |
| 3      | Value of assets sold /disposed off                       |                           | -                    |
| 4      | Gross Fixed Assets at the end of the year                | 1065.41                   | 794.97               |
| 5      | Net Depreciation for the year                            | 45.80                     | 29.65                |

#### Table 5-15: Depreciation for FY 2018-19

5.7.5 PED hereby requests the Hon'ble Commission to approve the revised estimates of depreciation as submitted above.

### 5.8 Interest & Finance Charge

5.8.1 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."

5.8.2 The Regulation 24(b) 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 2018-19 is Rs. 23.63 Crs. The summary of Interest and Finance Charges as claimed by the petitioner and as approved by the Commission for FY 2018-19 along with revised estimates is tabulated below:

|        | <b>(</b> Rs. Crs)                   |                           | Crs)                 |
|--------|-------------------------------------|---------------------------|----------------------|
| S. No. | Particulars                         | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Opening Normative Loan              | 254.37                    | 144.06               |
| 2      | Add: Normative Loan during the Year | 100.7                     | 38.02                |
| 3      | Less: Normative Repayment           | 45.8                      | 29.65                |
| 4      | Closing Normative Loan              | 309.27                    | 152.43               |
| 5      | Average Normative Loan              | 281.82                    | 148.25               |
| 6      | Rate of Interest(@SBAR)             | 14.05%                    | 14.05%               |
| 7      | Interest on Normative Loan          | 39.60                     | 20.83                |
| 7      | Other Finance Charges               | 2.39                      | 2.80                 |
| 9      | Total Interest and Finance Charges  | 41.99                     | 23.63                |

| Table 5-16: Interest & Finance Charges for FY 20 | 18-19     |
|--|-----------|
|  | (Rs. Crs) |

- 5.8.3 It is submitted that it has considered an addition of Rs. 54.31 Crs in the Gross Fixed Assets for FY 2018-19, 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 1<sup>st</sup> April of that relevant year.
- 5.8.4 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 5-15 of the Petition
- 5.8.5 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 23.63 Crs as shown in the table for FY 2018-19. The details of Interest & Finance charges are provided in Format 10A of the Tariff Filing Formats.

### 5.9 Interest on Working Capital

5.9.1 As per Regulation 25 of JERC MYT Regulations, 2014, interest on Working Capital for

retail supply activity of the licensee shall consist of:

- Receivables for two months of billing
- Less power purchase cost of one month
- Less consumer security deposit but excluding bank guarantee/ fixed deposit receipt
- Inventory for two months based on annual requirement for previous year.
- 5.9.2 The petitioner has considered the SBI base rate of 9.30% as prevailing as on 1st April 2017 and accordingly has computed the interest on working capital.

| S. No. | Particulars  | Approved by<br>Commission | Revised<br>Estimates |
|--------|--|---------------------------|----------------------|
| 1      | Two months receivable  | 249.90                    | 227.00               |
| 2      | Power purchase cost for one month  | 104.14                    | 94.32                |
| 3      | Total Consumer security deposit  | 230.04                    | 209.96               |
| 4      | Consumer Security Deposit excluding<br>Bank Guarantee/ Fixed Deposit Receipts          | 230.04                    | 209.96               |
| 5      | Inventory for two months based on<br>Aggregate Revenue Requirement of<br>previous year | 4.65                      | 7.77                 |
| 6      | Total (1-2-4+5)  | (79.63)                   | (69.51)              |
| 7      | Interest Rate  | 9.30%                     | 9.30%                |
| 8      | Interest on Working Capital  | 0.00                      | 0.00                 |

Table 5-17: Interest on Working Capital FY 2018-19

5.9.3 The Interest on Working Capital approved by the Hon'ble Commission for the FY 2018-19 was Nil. On the basis of the revised estimates for FY 2018-19, the interest on working capital comes to Nil.

# 5.10 Security Deposits

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

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

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

5.10.2 The prevailing Bank rate is considered at 6.75% as notified by Reserve Bank of India as on 01<sup>st</sup> April 2017.

#### Table 5-18: Interest on Security Deposit for FY 2018-19

#### (Rs Crs)

|        | Denticulare                         | Approved by | Revised   |
|--------|-------------------------------------|-------------|-----------|
| S. No. | Particulars                         | Commission  | Estimates |
| 1      | Opening Security Deposit            | 208.72      | 193.83    |
| 2      | Add: Deposits during the year       | 21.31       | 16.13     |
| 3      | Less: Deposits refunded             |             |           |
| 4      | Less: Deposits n the form of BG/FDR |             |           |
| 5      | Closing Security Deposit            | 230.03      | 209.96    |
| 6      | Bank Rate                           | 7.75%       | 6.75%     |
| 7      | Interest on Security Deposit        | 17.00       | 13.63     |

5.10.3 PED requests the Hon'ble Commission to approve the Interest on Security Deposit of Rs. 13.63 Crs for FY 2018-19.

# 5.11 Provision for bad debts

5.11.1 PED is not claiming any provision for bad & doubtful debts in the ARR of FY 2018-19, for pass through in tariff to consumers and may consider during true-up of the FY 2018-19 as per audited financial statements.

#### Table 5-19: Bad and doubtful debts for FY 2018-19

| Particulars            | Approved by<br>Commission | Revised<br>estimate |
|------------------------|---------------------------|---------------------|
| Bad and Doubtful Debts | NIL                       | NIL                 |

5.11.2 The Hon'ble Commission is requested to kindly approve the same.

### 5.12 Return on Capital Base/ Net Fixed Assets

- 5.12.1 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.
- 5.12.2 In line with the methodology adopted by the Hon'ble Commission in Tariff order dated 16th May, 2017, the capital base for closing of the FY 2017-18 as per the last chapter is considered. Further, an equity addition in FY 2018-19 equal to 30% of asset capitalized in FY 2018-19 has been considered.
- 5.12.3 In line with the MYT regulation and the methodology adopted in the previous tariff order, PED has calculated the Return on Equity as outlined in the following table for FY 2018-19.

| S. No. | Particulars                                 | Approved by<br>Commission | Revised<br>Estimates |
|--------|---|---------------------------|----------------------|
| 1      | Opening equity (30% of GFA)                 |                           | 222.20               |
| 2      | Addition in Equity (30% of addition in GFA) |                           | 16.29                |
| 3      | Closing Equity (1+2)                        |                           | 238.49               |
| 4      | Average Equity Amount                       |                           | 230.34               |
| 7      | Return on Equity - 16%                      | 26.46                     | 36.86                |

Table 5-20: Return on NFA for FY 2018-19

(Rs. Crs).

5.12.4 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on equity of Rs. 36.86 Crs.

# 5.13 Non-Tariff Income

- 5.13.1 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 excluding revenue from sale of UI power in the ARR for FY 2018-19 was Rs. 3.08 Crs.
- 5.13.2 The details of non-tariff income (excluding revenue from UI power and other income) for FY 2018-19 are provided in **Format 20 of the Tariff Filing Formats**
- 5.13.3 The summary of total non-tariff income in line with the Commission's approach is tabulated below:

|        |   |                           | (Rs. Crs)            |
|--------|---|---------------------------|----------------------|
| S. No. | Particulars                               | Approved by<br>Commission | Revised<br>Estimates |
|        |   | COMMISSION                |                      |
| 1      | Open access charges for wheeling of power |                           | 0.00                 |
| 2      | Income from trading of Materials          |                           | 0.06                 |
| 3      | Misc. Receipts/income                     |                           | 4.44                 |
| 4      | Total income                              |                           | 4.51                 |
| 5      | Add: Prior period income                  |                           |                      |
| 6      | Total Non-Tariff Income                   | 3.08                      | 4.51                 |

Table 5-21: Non-tariff income for FY 2018-19

5.13.4 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of **Rs. 4.51 Crs** for FY 2018-19.

# 5.14 Revenue from sale of surplus power / other income

5.14.1 The revenue earned by the petitioner from sale of power/ UI is considered as nil for FY 2018-19 and also the income from URS scheme and RRAS has been considered as nil.

### 5.15 Revenue from Sale of Power at Existing Tariff

5.15.1 The summary of Revenue from Tariff at existing tariff for FY 2018-19 is tabulated below:

| S. No. | Particulars   | Sales (MUs) | Revenue<br>(Rs.Crs) |
|--------|---|-------------|---------------------|
|        | LT Category   |             |                     |
| 1      | Domestic  | 770.23      | 228.65              |
| 2      | ОНОВ  | 10.21       | 1.15                |
| 3      | Commercial  | 238.42      | 147.99              |
| 4      | Agriculture   | 57.28       | 1.95                |
| 5      | Public Lighting                                     | 24.24       | 20.91               |
| 6      | LT Industrial                                       | 162.41      | 83.51               |
| 7      | Water Tank  | 42.50       | 25.09               |
| 8      | Temporary Supply-LT&HT                              | 5.00        | 4.88                |
| 9      | Total LT  | 1310.28     | 514.12              |
|        | HT Category   |             |                     |
| 10     | HT 1 Industrial / Commercial                        | 971.38      | 595.83              |
| 11     | HT 2 - Government & Water Tank                      | 71.78       | 55.20               |
| 12     | HT 3 - EHT  | 296.02      | 174.47              |
| 13     | Total HT  | 1339.18     | 825.50              |
| 15     | Total   | 2649.46     | 1339.62             |
|        | As approved in Tariff order dated<br>24th May, 2016 | 3177.04     |                     |

Table 5-22: Revenue from existing tariff for 2018-19

5.15.2 In view of above, the Hon'ble Commission is requested to kindly allow Revenue at existing tariff of Rs. 1,339.62 Crs.

### 5.16 Aggregate Revenue Requirement for FY 2018-19

5.16.1 The Aggregate Revenue Requirement for FY 2018-19 approved by the Hon'ble Commission in the MYT order was Rs. 1499.37 Crs. The Aggregate Revenue Requirement on the basis of revised estimates for FY 2018-19 is shown below:

|        |                                     | (Rs. Crs)                 |                      |
|--------|-------------------------------------|---------------------------|----------------------|
| S. No. | Particulars                         | Approved by<br>Commission | Revised<br>Estimates |
| 1      | Cost of power purchase              | 1249.70                   | 1131.85              |
| 2      | Employee Costs                      | 88.94                     | 97.30                |
| 3      | Administration and General Expenses | 6.05                      | 13.02                |
| 4      | R&M expenses                        | 26.51                     | 20.57                |
| 5      | Depreciation                        | 45.80                     | 29.65                |
| 6      | Interest & Finance Charges          | 41.99                     | 23.63                |
| 7      | Interest on Working Capital         |                           | -                    |
| 8      | Interest on Security Deposit Paid   | 17.00                     | 13.63                |
| 9      | Return on NFA/ Equity               | 26.46                     | 36.86                |
| 10     | Total Revenue Requirement           | 1502.45                   | 1366.49              |
| 11     | Less: Non- Tariff Income            | 3.08                      | 4.51                 |
| 12     | Less: Revenue from sale of surplus  |                           | 0.00                 |
|        | power and other income              |                           | 0.00                 |
| 13     | Net Aggregate Revenue Requirement   | 1499.37                   | 1361.98              |

Table 5-23: Calculation of ARR for FY 2018-19

5.16.2 PED hereby requests the Hon'ble Commission to approve the revised ARR of Rs. 1361.98 Crs for FY 2018-19 as submitted above.

### 5.17 Revenue Gap for FY 2018-19

5.17.1 The Revenue Gap for FY 2018-19 as calculated on the basis of revised ARR estimates and revenue at existing tariff is shown in the table below:

|        |  | (Rs. Crs)  |
|--------|--|------------|
| S. No. | Particulars                                  | FY 2018-19 |
| 1      | Aggregate Revenue Requirement                | 1361.98    |
| 2      | Revenue from Sale of Power @ existing tariff | 1339.62    |
| 3      | Revenue Gap/ (Surplus)                       | 22.36      |

#### Table 5-24: Revenue Gap for FY 2018-19

- 5.17.2 In view of above, the Hon'ble Commission is requested to kindly approve the revenue gap of Rs. 22.36 Crs for FY 2018-19.
- 5.17.3 PED in the subsequent chapters has proposed the required adjustment in tariff to consider the total gap / Surplus from FY 2016-17 to FY 2018-19.

### CHAPTER 6. TOTAL REVENUE GAP

#### 6.1 Preamble

- 6.1.1 PED in determining the ARR and retail supply tariff for FY 2018-19 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.
- 6.1.2 PED submits that this section covers the revenue gap claimed while computing ARR of the respective year and the total revenue gap to be recovered in FY 2018-19. Also the revenue gap comprises of the Gap / (Surplus) of three years (i.e. From FY 2016-17 to FY 2018-19).

### 6.2 Revenue Gap for FY 2017-18

6.2.1 PED submits that the said current petition covers 3 years which includes True-up for FY 2016-17, APR of FY 2017-18 and Tariff determination for FY 2018-19. 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:

|       |  |            |            | (RS. CIS)  |
|-------|--|------------|------------|------------|
| S.No. | Particulars  | FY 2016-17 | FY 2017-18 | FY 2018-19 |
| 1     | Net ARR  | 1,237.78   | 1,443.55   | 1,361.98   |
| 2     | Revenue at existing tariff<br>excluding surcharge but including<br>FPPCA | 1,192.11   | 1,299.37   | 1,339.62   |
| 3     | Revenue gap for the year   | 45.68      | 144.18     | 22.36      |
| 4     | Opening balance of gap   |            | 45.68      | 189.85     |
| 5     | Total cummulative gap at the end of the year                             | 45.68      | 189.85     | 212.21     |

 Table 6-1: Calculation of Cummulative Revenue Gap for FY 2016-17 to FY 2018-19

 (Rs. Crs)

6.2.2 PED requests the Hon`ble Commission to approve the cummulative revenue gap of Rs. 212.21 Crs in FY 2018-19.

### CHAPTER 7. TARIFF PHILOSOPHY

#### 7.1 Preamble

7.1.1 This section elucidates the proposed revision in the retail tariff and proposed amendments in the retail tariff schedule to be applicable for FY 2018-19. PED prays the Hon'ble Commission to approve the revision of retail tariff for FY 2018-19 as proposed for different categories of consumers, applicable from April 1 '2018.

### 7.2 Tariff Design Principles

7.2.1 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.

### 7.3 Philosophy of Tariff Design

- 7.3.1 PED submits to the Hon'ble Commission that the total proposed cumulative Revenue Gap for the control period FY 2016-17 to FY 2018-19 is Rs. 212.21 Crs as determined in earlier chapters.
- 7.3.2 The increase in revenue gap during the control period is on account of
  - a) Increase in cost of power from Central Generating Stations due to revision of tariff by CERC from the year FY 2014-15 and claim of arrears pertaining to past period.
  - b) Increase in cost of power for supplying power from NLC TS-I to Karaikal region through TANGEDCO due to revision in tariff by CERC for the period FY 2014-15 to FY 2017-18.
  - c) Increase in employee cost due to impact of 7<sup>th</sup> Pay Commission and recruitment of employees.
  - d) Increased cost towards meeting the RPO obligation.
- 7.3.3 In order to bridge the gap of Rs. 212.22 Crs, it is necessary to increase the energy charges in tariff by an average of 80 paise per unit to all categories of consumers. In order to avoid tariff shock to the consumers, it is proposed to increase the tariff for the domestic consumers in the range of 30 to 45 paise per unit, 60 paise per unit for commercial and special illumination, 50 paise for LT industries and 55 paise for HT industries in FY 2018-19 to earn an additional revenue of Rs. 128.64 Crs. The petitioner requests the Hon'ble Commission to allow the balance revenue gap of

83.57 Crs to be claimed in next FY. The overall increase in tariff for FY 2018-19 would be 9.60% on FY 2017-18 base tariffs, whereas the net overall increase over FY 2017-18 would be 5.60% (9.60%-4.00%) considering the 4% additional surcharge approved for FY 2017-18.

7.3.4 The existing tariff for FY 2017-18 (excluding surcharge of 4%) and proposed tariff for FY 2018-19 is mentioned below.

|        | Existing Tariff for FY 2017-18 Proposed Tariff |                      |          | Proposed Tariff for  | r FY 2018-19  |  |
|--------|--|----------------------|----------|----------------------|---------------|--|
| S. No. |  | Fixed Charge (Rs/kW; | Energy   | Fixed Charge (Rs/kW; | Energy Charge |  |
| 5. NO. | Category of Consumer                           | Rs/kVA; Rs/HP;       | Charges  | Rs/kVA; Rs/HP;       |               |  |
|        |  | Rs/Month/            | (Rs/kWh) | Rs/Month/            | (Rs/kWh)      |  |
| 1(a)   | Domestic & Cottage                             |                      |          |                      |               |  |
|        | 0 - 100  | 40.00                | 1.10     | 40.00                | 1.40          |  |
|        | 101 - 200                                      | 40.00                | 1.75     | 40.00                | 2.10          |  |
|        | 201 - 300                                      | 40.00                | 3.50     | 40.00                | 3.90          |  |
|        | >300   | 40.00                | 4.60     | 40.00                | 5.05          |  |
| 1 (b)  | ОНОВ   | 27.00                |          | 27.00                |               |  |
| 2      | Commercial                                     |                      |          |                      |               |  |
|        | 0 - 100  | 100.00               | 4.70     | 100.00               | 5.30          |  |
|        | 101 - 250                                      | 100.00               | 5.60     | 100.00               | 6.20          |  |
|        | > 250  | 100.00               | 6.25     | 100.00               | 6.85          |  |
| 3      | Agriculture                                    |                      |          |                      |               |  |
|        | Small farmers                                  | 9.00                 | -        | 9.00                 | -             |  |
|        | Other farmers                                  | 27.00                | -        | 27.00                | -             |  |
| 4      | Public lighting                                | 75.00                | 6.75     | 75.00                | 7.25          |  |
| 5      | LT Industrial & Water Tanks                    |                      |          |                      |               |  |
|        | LT Industrial                                  | 86.00                | 5.10     | 86.00                | 5.60          |  |
|        | Water Tanks                                    | 100.00               | 5.90     | 100.00               | 6.40          |  |
| 6      | Temporary supply                               |                      |          |                      |               |  |
| 6 (a)  | Light Load                                     | 200.00               | 9.75     | 200.00               | 10.35         |  |
| 6 (b)  | Special Illumination                           | 500.00               | 10.00    | 500.00               | 10.60         |  |
| 6 (c ) | Load exceeding 97kW/ 130HP                     | 500.00               | 10.00    | 500.00               | 10.60         |  |
| 7      | Hoardings/ Signboards                          | 120.00               | 8.00     | 120.00               | 8.60          |  |
| 8      | HT - I Industrial & Commercial                 |                      |          |                      |               |  |
| 8 (a)  | l(a) upto CD 5000 kVA<br>(Industrial/IT/ITES)  | 250.00               | 5.25     | 250.00               | 5.80          |  |
| 8 (b)  | l(b) upto CD 5000 kVA<br>(Commercial)          | 250.00               | 5.25     | 250.00               | 5.80          |  |
| 9      | HT - II Government & water<br>tank             | 250.00               | 6.75     | 250.00               | 7.30          |  |
| 10     | HT - III EHT (above 5000 kVA)                  | 220.00               | 5.10     | 220.00               | 5.65          |  |

Table 7-1: Summary of Existing and Proposed Tariff Rates for FY 2018-19

# 7.4 Gap at proposed tariff for FY 2018-19

7.4.1 The revenue at proposed tariff for FY 2018-19 is tabulated below.

|             | (Rs. Crs)                      |             |  |  |
|-------------|--------------------------------|-------------|--|--|
| S. No.      | Particulars                    | Sales (MUs) | Revenue at proposed<br>tariff (Rs.Crs) |  |
|             | LT Categ                       | ory         |  |  |
| 1           | Domestic                       | 770.23      | 257.57                                 |  |
| 2           | ОНОВ                           | 10.21       | 1.15                                   |  |
| 3           | Commercial                     | 238.42      | 162.29                                 |  |
| 4           | Agriculture                    | 57.28       | 1.95                                   |  |
| 5           | Public Lighting                | 24.24       | 22.13                                  |  |
| 6           | LT Industrial                  | 162.41      | 91.63                                  |  |
| 7           | Water Tank                     | 42.50       | 27.22                                  |  |
| 8           | Temporary Supply-LT&HT         | 5.00        | 5.18                                   |  |
| 9           | Total LT                       | 1310.28     | 569.10                                 |  |
| HT Category |                                |             |  |  |
| 10          | HT 1 Industrial / Commercial   | 971.38      | 649.26                                 |  |
| 11          | HT 2 - Government & Water Tank | 71.78       | 59.15                                  |  |
| 12          | HT 3 - EHT                     | 296.02      | 190.75                                 |  |
| 13          | Total HT                       | 1339.18     | 899.16                                 |  |
| 15          | Total                          | 2649.46     | 1468.26                                |  |

### Table 7-2: Revenue at proposed tariff for FY 2018-19

7.4.2 The revenue gap at proposed tariff for FY 2018-19 is tabulated below.

#### Table 7-3: Revenue gap at proposed tariff for FY 2018-19

|        | (  | (Rs Crs)   |  |
|--------|--|------------|--|
| S. No. | Particulars                                    | FY 2018-19 |  |
| 1      | Gap for FY 2016-17                             | 45.68      |  |
| 2      | Gap for FY 2017-18                             | 144.18     |  |
| 3      | Gap for FY 2018-19                             | 22.36      |  |
| 4      | Cummulative gap for the Control Period (1+2+3) | 212.21     |  |
| 5      | Additional recovery due to proposed tariff     | 128.64     |  |
| 6      | Revenue Gap/ (Surplus) (4-5)                   | 83.57      |  |

7.4.3 The petitioner requests the Hon'ble Commission to allow the remaining revenue gap of Rs. 83.57 to be claimed in next financial year so as to not burden the consumers with tariff shock.

#### CHAPTER 8. SEGREGATION OF WHEELING AND RETAIL SUPPLY BUSINESS

#### 8.1 Allocation Matrix

- 8.1.1 The Hon'ble Commission has issued JERC (Multi Year Distribution Tariff) Regulations, 2014 which is effective from 1st April 2016 onwards and the control period is for three years i.e. FY 2016-17 to FY 2018-19.
- 8.1.2 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.
- 8.1.3 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
- 8.1.4 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.
- 8.1.5 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:

- 8.1.6 **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.
- 8.1.7 **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 and collection of bills for energy use and disconnection of service on non-payment of bills.
- 8.1.8 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 rental 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.

8.1.9 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 FY 2018-19.

|        |                                       | Wire            | Supply          | ĺ                | FY 2018-19         | )       |
|--------|---------------------------------------|-----------------|-----------------|------------------|--------------------|---------|
| S. No. | Item of expense                       | Business<br>(%) | Business<br>(%) | Wire<br>Business | Supply<br>Business | Total   |
| 1      | Cost of power purchase                | 0%              | 100%            | 0.00             | 1131.85            | 1131.85 |
| 2      | Employee costs                        | 70%             | 30%             | 68.11            | 29.19              | 97.30   |
| 3      | R&M expenses                          | 90%             | 10%             | 18.51            | 2.06               | 20.57   |
| 4      | Administration and General expenses   | 50%             | 50%             | 6.51             | 6.51               | 13.02   |
| 5      | Depreciation                          | 90%             | 10%             | 26.68            | 2.96               | 29.65   |
| 6      | Interest & Financial charges          | 90%             | 10%             | 23.09            | 2.57               | 25.65   |
| 7      | Interest on Working Capital           | 22%             | 78%             | -                | -                  | -       |
| 8      | Return on NFA /Equity                 | 90%             | 10%             | 33.17            | 3.69               | 36.86   |
| 9      | Interest on Consumer Security Deposit | 0%              | 100%            | 0.00             | 13.63              | 13.63   |
| 10     | Total Revenue Requirement             |                 |                 | 176.07           | 1192.45            | 1368.52 |
| 11     | Less: Non Tariff Income               | 0%              | 100%            | 0.00             | 4.51               | 4.51    |
| 12     | Net Revenue Requirement (10-11)       |                 |                 | 176.07           | 1187.94            | 1364.01 |

Table 8-1: Segregation of ARR in to Retail Supply and Wires Business for FY 2018-19

8.1.10 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.

### CHAPTER 9. DETERMINATION OF OPEN ACCESS CHARGES

#### 9.1 Determination of Open Access Charges

- 9.1.1 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.
- 9.1.2 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.
- 9.1.3 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:* 

9.1.4 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;"

9.1.5 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.

## 9.2 Allocation of Wheeling Cost

9.2.1 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.

### 9.3 Voltage-wise Wheeling Charges

- 9.3.1 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 its last Tariff Order dated 16<sup>th</sup> May, 2017 i.e. losses for EHT at 1% and HT at 3.5%.
- 9.3.2 The voltage-wise wheeling charges for FY 2018-19 has been calculated below in the same methodology adopted by the Hon'ble Commission in tariff order dated 16<sup>th</sup> May, 2017.

| S.No. | Particulars                             | UoM    | Formulae   | Amount  |
|-------|---|--------|------------|---------|
| 1     | Wheeling Cost                           | Rs Crs | А          | 176.07  |
| 2     | Wheeling Cost for EHT network           | Rs Crs | B=A*12.16% | 21.41   |
| 3     | Input required for sales at EHT network | MU     | С          | 299.01  |
| 4     | Wheeling charges for EHT network usage  | Rs/kWh | D=B/C*10   | 0.72    |
| 5     | Wheeling Cost for HT network            | Rs Crs | E=A*35.58% | 62.65   |
| 6     | Input required for sales at HT network  | MU     | F          | 1080.99 |
| 7     | Wheeling charges for HT network usage   | Rs/kWh | G=E/F*10   | 0.58    |
| 8     | Wheeling cost for LT network            | Rs Crs | H=A*52.25% | 92.00   |
| 9     | Input required for sales at LT level    | MU     | I          | 1647.95 |
| 10    | Wheeling charges for LT network usage   | Rs/kWh | J=H/I*10   | 0.56    |

Table 9-1: Voltage-wise wheeling charges for FY 2018-19

9.3.3 The Hon'ble Commission may consider the submissions as provided in the above paragraphs & approve the proposed voltage-wise wheeling charges for FY 2018-19.

## 9.4 Cross Subsidy Surcharge

- 9.4.1 Section 2 (47) of the Electricity Act, 2003 defines "Open Access", while Section 42 of the Electricity 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.
- 9.4.2 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.

- 9.4.3 The National Electricity Policy as stipulated by the Central Government provides that –Under sub section (2) of Section 42 of the Act, a surcharge is to be levied by the respective State Commissions on consumers switching to alternate supplies under open access. This is to compensate the host distribution licensee serving such consumers who are permitted Open Access under Section 42 (2), for loss of cross subsidy element built into the tariff of such consumers. An additional surcharge may also be levied under sub section (4) of section 42 of the said Act for meeting the fixed cost of the distribution licensee arising out of obligation to supply in cases where consumers are allowed open access.
- 9.4.4 The Government of India has notified the National Tariff Policy, 2016 on 28th January 2016. The Cross subsidy surcharge is based on the following formula given in the Tariff Policy, 2016 which is as follows:

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

Where,

S is the surcharge

T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation;

C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligation;

D is the aggregate of transmission, distribution and wheeling charge applicable to the relevant voltage level

L is the aggregate of transmission, distribution and commercial losses, expressed as a percentage applicable to the relevant voltage level

R is the per unit cost of carrying regulatory assets.

## 9.5 Computation of Cross Subsidy Surcharge for FY 2018-19

- 9.5.1 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. The computation of each of the component is given below.
- 9.5.2 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 2017-18.

- 9.5.3 The projected wheeling charges "D" as determined in the earlier section 9.3 at the respective voltage level are used for calculation of Cross Subsidy Surcharge. The cross-subsidy surcharge has been computed on consolidated basis for HT as per Hon'ble Commission's methodology in last tariff order.
- 9.5.4 The computation of each component of cross-subsidy surcharge is given below.

| Particular              | Sale (MUs) | Revenue from<br>proposed tariff<br>(Rs crore) | Average Tariff<br>(Rs/kWh) |
|-------------------------|------------|---|----------------------------|
| T- EHT (Tariff payable) | 296.02     | 190.75  | 6.44                       |
| T- HT (Tariff payable)  | 1043.16    | 708.41  | 6.79                       |

Table 9-2: Calculation of 'T' (tariff payable) for FY 2018-19

| Particular                           | Energy Procured<br>(MUs) | Total Power<br>Purchase Cost<br>(Rs. Crore) | Average Rate<br>(Rs./kwh) |
|--------------------------------------|--------------------------|---|---------------------------|
| C (W. Avg Cost of<br>Power Purchase) | 3083.47                  | 1131.85                                     | 3.67                      |

9.5.5 The category wise cross subsidy surcharge based on the above formula is computed below.

| Cross Subsidy Surcharge   | UoM                       | EHT Industry     | HT Industry      |
|---|---------------------------|------------------|------------------|
| T (Tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation)                            | Rs./kWh                   | 6.44             | 6.79             |
| C (per unit weighted average cost of power<br>purchase by the Licensee, including meeting the<br>Renewable Purchase Obligations)            | Rs./kWh                   | 3.67             | 3.67             |
| D (aggregate of transmission, distribution and wheeling charge applicable to the relevant voltage level)                                    | Rs./kWh                   | 0.72             | 0.58             |
| L (aggregate of transmission, distribution and<br>commercial losses, expressed as a percentage<br>applicable to the relevant voltage level) | %                         | 1                | 3.5              |
| R (per unit cost of carrying regulatory assets)<br>Cross Subsidy Surcharge  | Rs./kWh<br><b>Rs./kWh</b> | 0<br><b>2.02</b> | 0<br><b>2.41</b> |

Table 9-4: Cross-subsidy surcharge for FY 2018-19

9.5.6 The Cross subsidy surcharge has been calculated for the HT and EHT category only as presently the open access is allowed to 1MW and above consumers which fall under this category.

9.5.7 PED requests the Hon'ble Commission to approve the Cross Subsidy Surcharge & related Open Access Charges for FY 2018-19 as proposed.

## 9.6 Additional Surcharge

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

## CHAPTER 10. COMPLIANCE OF THE DIRECTIVES OF HON'BLE COMMISSION

## 10.1 Preamble

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

### **10.2** Status of Compliance

| S.No. | Directives               | Commission Observation made in the Tariff Order FY 2017-18     | Compliance by the Electricity Department Puducherry             |
|-------|--------------------------|--|---|
| 1.    | Preparation of Asset and | The Commission observes that the Petitioner is yet to ensure   | The Asset and Depreciation Registers have been updated          |
|       | Depreciation Register    | full compliance of this directive. The Commission directs the  | up to FY 2015-16. For the FY 2016-17, the Asset Register is     |
|       |                          | Petitioner to update the asset register till FY 2016-17 before | being prepared and the same is being audited. The Audit         |
|       |                          | filing of Tariff Petition for FY 2018-19.                      | Report will be submitted to the Hon'ble Commission during       |
|       |                          |  | the Technical Validation Session for the tariff petition for FY |
|       |                          |  | 2018-19.  |
| 2.    | Accounting of Consumer   | The Commission observes that the Petitioner is yet to ensure   | The Department is maintaining a separate head of account        |
|       | Security Deposits etc.   | full compliance of this directive. The Commission directs the  | for the consumer security deposit from the FY 2012-13           |
|       | under appropriate head   | Petitioner to pay the full interest on consumer deposit in the | onwards. Based on the directions of Hon'ble Commission,         |
|       | of accounts              | FY 2017-18 to the eligible consumers and update the status to  | payment of interest is being made to those consumers. The       |
|       |                          | the Commission.  | payment of the interest is also being made based on the         |
|       |                          |  | allocation of funds by the Government of Puducherry for         |
|       |                          |  | the period from FY 2012-13.                                     |
|       |                          |  | As far as the details of the security deposit made prior to     |
|       |                          |  | the FY 2012-13, all the deposits made by the consumers          |
|       |                          |  | towards security deposits as well as the consumer               |
|       |                          |  | contribution deposits were put together in a single head of     |

#### Table 10-1: Status of Compliance of Directives

| S.No. | Directives                     | Commission Observation made in the Tariff Order FY 2017-18  | Compliance by the Electricity Department Puducherry  |
|-------|--------------------------------|---|--|
| 3.    | Energy Audit and T&D<br>Losses | The Commission has taken a serious view of the fact that the<br>Petitioner is yet to ensure full compliance despite repeated<br>directives of the Commission. The Commission directs the<br>Petitioner to have complete energy audit of all distribution<br>transformers in the four areas by 30th October 2017 and<br>report the compliance to the Commission. | account. The above issue can only be resolved after tracing<br>out the details of the security deposits from the old policy<br>files.<br>The interest payable to the security deposit made from the<br>FY 2009-10 can be done only on tracing out of the details of<br>the security deposit through new software system, which is<br>being implemented under R-APDRP scheme.<br>The Department therefore prays to consider the additional<br>time required to process the above work.<br>All the distribution transformers in Mahe and Yanam<br>regions have been provided with the meters. The recording<br>of readings of the distribution transformer meters is being<br>taken regularly every month and losses on each feeder up<br>to 11 KV level are being worked out.<br>As far as the Puducherry and Karaikal regions are<br>concerned, there are 2475 nos. of distribution transformers<br>in service, out of which around 1450 nos. of transformers<br>have been provided with the meters. Under the scheme<br>DDUGJY, 1168 nos. of distribution transformers have been<br>considered for the provision of metering. The EDP has<br>programmed to complete the metering of all DTs in the<br>current financial year itself. It is also expected that the new<br>software under R-APDRP will be installed and |
|       |                                |   | software under R-APDRP will be installed and<br>commissioned before March 2018. The software provides<br>DT wise grouping of consumers and enables the<br>Department to calculate losses up to LT level.   |

| S.No. | Directives              | Commission Observation made in the Tariff Order FY 2017-18    | Compliance by the Electricity Department Puducherry         |
|-------|-------------------------|---|---|
|       |                         |   | The EDP therefore requests that the time limit may please   |
|       |                         |   | be extended to the FY 2018-19 to conduct energy audit       |
|       |                         |   | upto LT level and submit to the Hon'ble Commission.         |
| 4.    | Estimation of the       | The Commission observes that the Petitioner is yet to ensure  | The procurement of the meters for both the DT metering      |
|       | consumption by          | full compliance of this directive. The Commission directs the | and Agricultural consumers has been contemplated in the     |
|       | agriculture pump-sets   | Petitioner to submit the status report regarding metering of  | DDUGJY scheme and the entire works are programmed to        |
|       |                         | the distribution transformers connected to agriculture        | be completed during the current financial year itself.      |
|       |                         | consumers before 31st July 2017 and complete the work of      | However, based on the meters already provided in the DTs    |
|       |                         | metering with the FY 2017-18.                                 | connected to the agricultural consumers, the consumption    |
|       |                         |   | pattern of the agricultural consumers will be submitted     |
|       |                         |   | during the Technical Validation Session for the tariff      |
|       |                         |   | petition for the FY 2018-19.                                |
| 5.    | Metering of consumer    | The Commission has taken a serious view of the fact that the  | At present, the department is having around 55,000 meters   |
|       | installations /         | Petitioner is yet to ensure full compliance despite repeated  | in stock and the defective and electromechanical meters     |
|       | replacement of non-     | directives of the Commission. The Petitioner is directed to   | are being replaced. Order was placed for the replacement    |
|       | functional or defective | submit the present status of replacement of defective meters, | of existing meters with smart meters in 35,600 services and |
|       | Meters                  | meters already available, additional meters proposed to be    | the same is expected to commence in the month of March      |
|       |                         | ordered and timeline for receipt of additional meters. The    | 2018.   |
|       |                         | status report must be submitted by 31st July 2017 along with  | Action has also been initiated to procure around 1,10,000   |
|       |                         | the plan and the schedule for 100% replacement of defective   | meters under the central assistance scheme of IPDS and      |
|       |                         | meters  | DDUGJY and the same will be utilized for the replacement    |
|       |                         |   | of the existing defective and electromechanical meters. The |
|       |                         |   | department has programmed to replace all the defective      |
|       |                         |   | and electromechanical meters in the current financial year  |
|       |                         |   | itself.   |

| S.No. | Directives                | Commission Observation made in the Tariff Order FY 2017-18                       | Compliance by the Electricity Department Puducherry           |
|-------|---------------------------|--|---|
| 6.    | Load Shedding and         | The action taken is noted. The Petitioner is directed to submit                  | The infrastructure for the operation of the 24X7 call centre  |
|       | ensuring proper service   | the compliance of the directive before 30th September 2017.                      | has already been created. However, the operation of the       |
|       | to the consumers          |  | call centre is pending for the completion of the software     |
|       |                           |  | implementation by the firm under R-APDRP scheme. It is        |
|       |                           |  | programmed to put the 24X7 call centre in operation by        |
|       |                           |  | March 2018.   |
| 7.    | Pilferage of Energy       | The action taken is noted. The Petitioner should continue the                    | It is submitted that quarterly reports regarding pilferage of |
|       |                           | submission of Action Taken Report on quarterly basis to the                      | energy are being submitted to the Hon'ble Commission          |
|       |                           | Commission, on the identified misuse of the supply of                            | regularly.  |
|       |                           | electricity.   |   |
| 8.    | Employee Cost/            | The Commission has taken a serious view of the fact that the                     | It is submitted that the restructuring proposal submitted by  |
|       | Manpower Study            | Petitioner is yet to ensure full compliance despite repeated                     | the Government of Puducherry is still under consideration     |
|       |                           | directives of the Commission. The Commission directs the                         | of the Ministry of Power. The Ministry of Power has raised    |
|       |                           | Petitioner that the employee cost/manpower study should be                       | some queries on the proposal and the same is being            |
|       |                           | submitted before the Commission before 30th November                             | attended by the Expert Committee appointed by the             |
|       |                           | 2017.  | Government of Puducherry.                                     |
| 9.    | Enforcement Cell          | Action taken by the Petitioner is noted. The Petitioner should                   | It is submitted that quarterly reports in this regard are     |
|       |                           | continue regular inspection and also continue submission of                      | being submitted to the Hon'ble Commission regularly.          |
|       |                           | quarterly report to the Commission regarding the same.                           |   |
| 10.   | Connected Load/Contract   | Action taken is noted. The Petitioner is directed to have                        | The EDP submits that the consumer indexing activities of all  |
|       | Demand based fixed        | effective project management and complete the compliance                         | consumers in the urban areas wherein enumeration of           |
|       | charges for LT Industrial | of the directive before filing of next Tariff Petition for the $\ensuremath{FY}$ | connected load, is included in the upgrading/ implementing    |
|       | and Commercial            | 2017-18.   | the new software under Part-A (IT) of R-APDRP scheme.         |
|       | categories                |  | Connected load enumeration would be taken up by this          |
|       |                           |  | department while upgrading/ implementing the new              |

| S.No. | Directives  | Commission Observation made in the Tariff Order FY 2017-18  | Compliance by the Electricity Department Puducherry   |
|-------|---|---|---|
|       |   |   | software under Part-A (IT) of R-APDRP scheme. The EDP therefore requests that the department may be permitted to provide connected load/ contract demand based fixed charges for LT Industrial and Commercial categories from the FY 2019-20.   |
| 11.   | Proposal of the Energy<br>Charges for the<br>agriculture category | The Commission noted that the directive has not been<br>complied with in the present Tariff Petition also. The<br>Commission directs the Petitioner to submit an action plan for<br>100% metering of agriculture consumers by 31st July 2017 and<br>submit a proposal for energy tariff based billing for agricultural<br>consumers along with the next Tariff Petition.          | It is requested that as the department has programmed to<br>provide static meters to all the agricultural consumers in<br>the current financial year itself, the department may be<br>permitted to submit a proposal for energy tariff based<br>billing for the agricultural consumers along with the tariff<br>petition for the FY 2019-20.                        |
| 12.   | Unbundling &<br>Corporatization                                   | The Commission has taken a serious view of the fact that the<br>Petitioner is yet to undertake any action on this directive. The<br>Petitioner is directed to take up the matter of unbundling and<br>corporatization of the department with the Government<br>within 2 months of issuance of this Order and submit monthly<br>progress updates for the review of the Commission. | Unbundling and Corporatization is being placed before the<br>Reforms Steering Committee constituted under the<br>chairmanship of Secretary (Power) and the<br>recommendations of the committee will be submitted to<br>the Government for their approval. On receipt of the<br>decision of the Government, the same will be submitted to<br>the Hon'ble Commission. |
| 13.   | Technology upgradation  | The Commission observes that while the Petitioner is<br>undertaking works in this regard, no specific timeline has been<br>mentioned by the Petitioner for the full compliance of this<br>directive. The Commission now directs the Petitioner to<br>submit a detailed action plan for ensuring 100% compliance of<br>this directive within 1 month of issuance of this Order.    | All the mechanical relays in the Marapalam, Kurumbapet<br>and Kalapet 110/22 KV Sub-stations have been replaced by<br>new Numerical relays under the R-APDRP scheme. The oil<br>RMUs have been replaced with 11 KV SF <sub>6</sub> SCADA RMUs in<br>the areas covered under R-APDRP scheme.   |

| S.No. | Directives               | Commission Observation made in the Tariff Order FY 2017-18     | Compliance by the Electricity Department Puducherry          |
|-------|--------------------------|--|--|
| 14.   | Information for          | The Commission notes that Petitioner has not complied with     | It is submitted that FA Schedules has been prepared for the  |
|       | determination of voltage | the directive and has given reasons for non-compliance which   | transmission, HT distribution and LT distribution separately |
|       | wise wheeling charges    | are not tenable. The Petitioner is directed to provide the     | for the FY 2016-17 and the same methodology will be          |
|       |                          | details of voltage wise assets and expenses along with the     | adopted for the subsequent years.                            |
|       |                          | allocation methodology (based on best judgement of the         |  |
|       |                          | Petitioner) for the determination of voltage wise wheeling     |  |
|       |                          | charges in the next tariff petition.                           |  |
| 15.   | Time of Day (T0D) Tariff | The action taken is noted. However, the Commission notes       | It is submitted that the Department is carrying out          |
|       | for HT/ EHT consumers    | that the ToD compatible meters need to be provided for         | necessary modification in software and the work is           |
|       |                          | Puducherry and Karaikal regions also. The Petitioner is        | expected to be completed by the end of March 2018.           |
|       |                          | directed to complete the work of installing ToD compatible     |  |
|       |                          | smart meters for all HT/EHT consumers along with necessary     |  |
|       |                          | modifications in software within 3 months of issuance of this  |  |
|       |                          | Order and report the compliance to the Commission. The         |  |
|       |                          | Petitioner is also directed to widely publicize the            |  |
|       |                          | implementation of ToD tariff to the HT/EHT consumers so that   |  |
|       |                          | they can immediately start availing the benefits of ToD tariff |  |
|       |                          | mechanism.   |  |
| 16.   | New Bill Format          | The Commission observes that the Petitioner has not fully      | Presently, spot billing system is in vogue and switching to  |
|       |                          | complied with the directive. The Commission now directs the    | any other billing system would require major modification    |
|       |                          | Petitioner to finalize and introduce the new bill format       | in the billing software which would also require more time.  |
|       |                          | (including the adjustment of the Solar Power fed to the Grid)  | However, the metering, billing and collection system is      |
|       |                          | within 1 month of issuance of this Order and report the        | being upgraded to the latest RDBMS platform under part-A     |
|       |                          | compliance to the Commission.                                  | (IT) of R-APDRP scheme which is likely to be completed by    |
|       |                          |  | March 2018. It is also mentioned that the consumer           |
|       |                          |  | indexing activities of all consumers in the urban areas      |

| S.No. | Directives  | Commission Observation made in the Tariff Order FY 2017-18       | Compliance by the Electricity Department Puducherry         |
|-------|-------------|--|---|
|       |             |  | wherein enumeration of connected load, is also included in  |
|       |             |  | the above scheme. Hence, the new bill format along with     |
|       |             |  | the connected load enumeration including the adjustment     |
|       |             |  | of the solar power fed into the grid would be adopted by    |
|       |             |  | this department while upgrading/ implementing the new       |
|       |             |  | software under Part-A (IT) of R-APDRP scheme.               |
| 17.   | Open access | The Commission observes that while the permission for the        | The subject matter of setting up of the STU and SLDC (nodal |
|       |             | open access has been accorded, the Petitioner is yet to comply   | agency) is being placed before the Reforms committee        |
|       |             | with the directive of setting up of the STU and SLDC (nodal      | constituted under the chairmanship of Secretary (Power)     |
|       |             | agency). The Petitioner is directed to submit the action plan    | and the recommendations of the committee will be            |
|       |             | for 100% compliance of this directive within 1 month of          | submitted to the Government for their approval. The         |
|       |             | issuance of this Order. The Commission also directs the          | decision of the Government will be intimated soon after its |
|       |             | Petitioner to provide actual voltage wise losses and voltage     | receipts from the Government.                               |
|       |             | wise assets for the FY 2016-17 along with the next filing of the |   |
|       |             | Tariff Petition.   |   |

| S.No. | Directives              | Commission Observation made in the Tariff Order FY 2017-18              | Compliance by the Electricity Department Puducherry   |  |
|-------|-------------------------|---|---|--|
| 1.    | Category wise Connected | The Commission has observed that the information pertaining to          | The EDP submits that the consumer indexing activities |  |
|       | Load                    | connected load of all the consumer categories is not made               | of all consumers in the urban areas wherein           |  |
|       |                         | available by the Petitioner. The Commission directs the Petitioner      | enumeration of connected load, is included in the     |  |
|       |                         | to maintain and submit the information of connected load for all        | upgrading/ implementing the new software under Part-  |  |
|       |                         | the categories in all future filings of the Tariff Petitions before the | A (IT) of R-APDRP scheme. Connected load enumeration  |  |
|       |                         | Commission.   | would be taken up by this department while upgrading/ |  |
|       |                         |   | implementing the new software under Part-A (IT) of F  |  |
|       |                         |   | APDRP scheme. The EDP therefore requests that the     |  |
|       |                         |   | department may be permitted to provide connected      |  |
|       |                         |   | load details for all categories from the FY 2019-20   |  |

#### Table 10-2: Status of Compliance of New Directives

### CHAPTER 11. PROPOSED TARIFF SCHEDULE FOR FY 2018-19

### **11.1** Tariff Schedule for FY 2018-19

- 11.1.1 The tariff indicated in this tariff schedule is the tariff rate proposed to be payable by the consumers of Union Territory of Puducherry.
- 11.1.2 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.
- 11.1.3 Unless otherwise agreed to, these tariffs for power supply are applicable to single point of supply.
- 11.1.4 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.
- 11.1.5 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.

### 11.1.6 **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 off to two decimals.

- a) The monthly average power factor of the supply shall be maintained by the consumer not less than 90% (lagging). If the monthly average power factor of a consumer falls below 90% (90% lagging), such consumer shall pay a surcharge in addition to his normal tariff @ 1% on billed demand and energy charges for each fall of 1% in power factor upto 70% (lagging).
- b) In case the monthly average power factor of the consumer is more than 95% (95% lagging), a power factor incentive @ 1% on demand and energy charges shall be given for each increase of 1% in power factor above 95% (lagging).
- c) If the average power factor falls below 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.
- 11.1.7 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.
- 11.1.8 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.
- 11.1.9 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\*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.

- 11.1.10 Unless specifically stated to the contrary, the figures of energy charges relates to Rs per unit (kWh) charge for energy consumed during the month.
- 11.1.11 **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. In case of delay less than a month, the surcharge will be levied at 2% per month on proportionate basis considering a month consists of 30 days. Such surcharge shall be rounded off to the nearest multiple of one rupee. Amount less than 50 paisa shall be ignored and amount of 50 paisa or more shall be rounded off to next rupee. In case of permanent disconnection, delayed payment surcharge shall be charged only up to the month of permanent disconnection.
- 11.1.12 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.
- 11.1.13 **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.

## 11.1.14 Time of Day (TOD) Tariff

(i) Under the Time of Day (ToD) Tariff, electricity consumption and maximum demand in respect of HT/EHT consumers for different periods of the day, i.e. normal period, peak load period and off-peak load period, shall be recorded by installing a ToD meter.

(ii) The maximum demand and consumption recorded in different periods shall be billed at the following rates on the tariff applicable to the consumer.

| Time of Use               | Demand<br>Charges | Energy Charges         |
|---------------------------|-------------------|------------------------|
| Normal period             | Normal Rate       | Normal rate of energy  |
| (6:00 a.m. to 6:00 p.m.)  | NOTITAL RALE      | charges                |
| Evening peak load period  | Normal Rate       | 120% of normal rate of |
| (6:00 p.m. to 10.00 p.m.) | Normal Kale       | energy charges         |
| Off-peak load period      | Normal Rate       | 90% of normal rate of  |
| (10:00 p.m. to 6:00 a.m.) | Normal Kate       | energy charges         |

(iii) Applicability and Terms and Conditions of TOD tariff:

(a)The TOD tariff will be implemented soon after installation of TOD meters to all HT consumers and completion of up-gradation of concerned software.

(b)The facility of aforesaid TOD tariff shall not be available to HT/EHT consumers having captive power plants and/or availing supply from other sources through wheeling of power

(c) The HT/EHT industrial consumers who have installed standby generating plants shall also be eligible for the aforesaid TOD tariff

(d) In the event of applicability of TOD tariff to a consumer, all other terms and conditions of the applicable tariff shall continue to apply

## 11.2 Low Tension Supply

## Domestic Purposes

## 11.2.1 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 11-1. Existing and Proposed Charges for Domestic Category |                                  |                 |                                  |                 |  |  |
|---|----------------------------------|-----------------|----------------------------------|-----------------|--|--|
|   | Existing C                       | harges          | Proposed Charges                 |                 |  |  |
| Consumption<br>Range  | FC (Rs/<br>Connection/<br>Month) | EC (Rs/<br>kWh) | FC (Rs/<br>Connection/<br>Month) | EC (Rs/<br>kWh) |  |  |
| 0-100 units<br>per month  | 40.00                            | 1.10            | 40.00                            | 1.40            |  |  |
| 101-200 units per month   | 40.00                            | 1.75            | 40.00                            | 2.10            |  |  |
| 201-300 units per month   | 40.00                            | 3.50            | 40.00                            | 3.90            |  |  |
| Above 300<br>units per<br>Month                                 | 40.00                            | 4.60            | 40.00                            | 5.05            |  |  |

Table 11-1: Existing and Proposed Charges for Domestic Category

- 3. The method of billing of charges shall be as explained below.
  - a) Say units billed in a month are 80 units. Then the fixed charges will be Rs.
     40/month and energy charges Rs. (80 units X Rs 1.40/unit).
  - b) In case the units billed are 275, then the fixed charges will be Rs. 40/month and energy charges will be Rs (100 units X 1.40 + 100 units X 2.10 + 75 units X 3.90).

## 11.2.2 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:

| Description                                     | Existing Fixed Charges | Proposed Fixed<br>Charges       |
|---|------------------------|---------------------------------|
| Hut Services/Rs. 27 per connectionOHOBper month |                        | Rs. 27 per connection per month |

 Table 11-2: Existing and Proposed Charges for Hut Category

### 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.

## 11.2.3 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 11-3: Existing and Proposed Charges for Commercial Category

|                            | Existing C                        | Charges         | Proposed Charges                 |                 |  |
|----------------------------|-----------------------------------|-----------------|----------------------------------|-----------------|--|
| Consumption<br>Range       | FC (Rs/<br>Connection<br>/ Month) | EC (Rs/<br>kWh) | FC (Rs/<br>Connection/<br>Month) | EC (Rs/<br>kWh) |  |
| 0-100 units per<br>month   | 100.00                            | 4.70            | 100.00                           | 5.30            |  |
| 101-250 units per<br>month | 100.00                            | 5.60            | 100.00                           | 6.20            |  |
| Above 250 units per month  | 100.00                            | 6.25            | 100.00                           | 6.85            |  |

## AGRICULTURE SERVICES (D)

## Agriculture/ Cottage Industries etc.

## 11.2.4 Agriculture (D1)

For supply to bonafide agricultural services with a connected load of not less than 3

HP per service.

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

Table 11-4: Existing and Proposed Charges for Agriculture Category

### 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

## 11.2.5 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:

|                           | Existing Charges                 |                 | Proposed Charges                 |              |
|---------------------------|----------------------------------|-----------------|----------------------------------|--------------|
| Consumption<br>Range      | FC (Rs/<br>Connection/<br>Month) | EC (Rs/<br>kWh) | FC (Rs/<br>Connection/<br>Month) | EC (Rs/ kWh) |
| 0-100 units per<br>month  | 40.00                            | 1.10            | 40.00                            | 1.40         |
| 101-200 units per month   | 40.00                            | 1.75            | 40.00                            | 2.10         |
| 201-300 units per month   | 40.00                            | 3.50            | 40.00                            | 3.90         |
| Above 300 units per Month | 40.00                            | 4.60            | 40.00                            | 5.05         |

Table 11-5: Existing and Proposed Charges for Cottage Industry

## 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.

## 11.2.6 Public Lighting

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

| Table 11-6: Existing and Proposed Cl | Charges for Public Lightning |
|--------------------------------------|------------------------------|
|--------------------------------------|------------------------------|

|                      | Existing Charges                  |                 | Proposed Charges                  |                 |
|----------------------|-----------------------------------|-----------------|-----------------------------------|-----------------|
| Consumption<br>Range | FC (Rs/<br>Connection<br>/ Month) | EC (Rs/<br>kWh) | FC (Rs/<br>Connection<br>/ Month) | EC (Rs/<br>kWh) |
| Public Lighting      | 75.00                             | 6.75            | 75.00                             | 7.25            |

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.

## 11.2.7 LT Industrial and Water Tanks (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 11-7: Existing and Proposed Charges for LT Industrial

|                      | Existing Charges                  |                 | Proposed Charges                  |                 |
|----------------------|-----------------------------------|-----------------|-----------------------------------|-----------------|
| Consumption<br>Range | FC (Rs/<br>Connection<br>/ Month) | EC (Rs/<br>kWh) | FC (Rs/<br>Connection<br>/ Month) | EC (Rs/<br>kWh) |
| LT Industrial        | 86.00                             | 5.10            | 86.00                             | 5.60            |
| Water Tanks          | 100.00                            | 5.90            | 100.00                            | 6.40            |

## 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

## **11.3 High Tension Supply**

## 11.3.1 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.

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

|  | Existing                  | Charges         | Proposed Charges          |                 |
|--|---------------------------|-----------------|---------------------------|-----------------|
| Consumption Range                            | FC (Rs/<br>kVA/<br>Month) | EC (Rs/<br>kWh) | FC (Rs/<br>kVA/<br>Month) | EC (Rs/<br>kWh) |
| HT I (a) For contract<br>demand upto 5000kVA | 250.00                    | 5.25            | 250.00                    | 5.80            |
| HT I (b) For contract<br>demand upto 5000kVA | 250.00                    | 5.25            | 250.00                    | 5.80            |

#### Table 11-8: Existing and Proposed Charges for High Tension I(a) and I(b) Category

11.3.3 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 X 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, excess demand and consumption will be billed at the rate of Rs 500 per kVA per month and Rs 11.60/kWh respectively.

### 11.3.4 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.

|                   | Existing Charges          |                 | Proposed Charges          |                 |
|-------------------|---------------------------|-----------------|---------------------------|-----------------|
| Consumption Range | FC (Rs/<br>kVA/<br>Month) | EC (Rs/<br>kWh) | FC (Rs/<br>kVA/<br>Month) | EC (Rs/<br>kWh) |
| нт II             | 250.00                    | 6.75            | 250.00                    | 7.30            |

Table 11-9: Existing and Proposed Charges for High Tension II Category

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.

### 11.3.5 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:

|                   | Existing Charges                          |      | Proposed Charges          |                 |
|-------------------|---|------|---------------------------|-----------------|
| Consumption Range | FC (Rs/<br>kVA/<br>Month) EC (Rs/<br>kWh) |      | FC (Rs/<br>kVA/<br>Month) | EC (Rs/<br>kWh) |
| нтш               | 220.00                                    | 5.10 | 220.00                    | 5.65            |

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.

## 11.4 Temporary Supply

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

|   | Existing Charges  |   | Proposed Charges  |   |
|---|---|---|---|---|
| Description   | Minimum charge  | Tariff applicable<br>for entire<br>consumption<br>(Rs./kWh) | Minimum charge  | Tariff applicable<br>for entire<br>consumption<br>(Rs./kWh) |
| Lights or combined<br>installation of lights and<br>fans, motive power,<br>heating and others | Rs. 200 per<br>connection per<br>month or part<br>thereof | 9.75  | Rs. 200 per<br>connection per<br>month or part<br>thereof | 10.35   |
| Special illumination  | Rs. 500 per<br>connection per<br>month or part<br>thereof | 10.00   | Rs. 500 per<br>connection per<br>month or part<br>thereof | 10.60   |
| Construction and testing<br>purpose for load<br>exceeding 130 HP or 97<br>kW                  | Rs. 500 per<br>connection per<br>month or part<br>thereof | 10.00   | Rs. 500 per<br>connection per<br>month or part<br>thereof | 10.60   |

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

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.
- e) For supply required at short notice that is within three days from the date of application for temporary service connections, an urgency charge of Rs. 50 shall be paid along with other normal tariff charges.

## 11.5 Hoardings

Electricity for lighting external advertisements, external hoardings and displays at departments stores, malls , multiplexes, theatres, clubs, hotels, bus shelters, Railway Stations shall be separately metered and charged at the tariff applicable for "Advertisements and Hoardings" category, except such displays which are for the purpose of indicating / displaying the name and other details of the shop, commercial premises itself. Such use of electricity shall be covered under the prevailing tariff for such shops or commercial premises. The connection for "Advertisements and Hoardings" category would be covered under the permanent supply of connection under commercial category.

|                   | Existing Charges          |                 | Proposed Charges          |                 |
|-------------------|---------------------------|-----------------|---------------------------|-----------------|
| Consumption Range | FC (Rs/<br>kVA/<br>Month) | EC (Rs/<br>kWh) | FC (Rs/<br>kVA/<br>Month) | EC (Rs/<br>kWh) |
| All units         | 120.00                    | 8.00            | 120.00                    | 8.60            |

### CHAPTER 12. PROPOSED SCHEDULE OF SERVICES AND CHARGES

#### 12.1 Charges for service connections

12.1.1 The following table shows the charges for service connections

|     | Particulars                    | Category                             | Existing Charges<br>(Rs.) | Proposed Charges<br>[Rs] |
|-----|--------------------------------|--------------------------------------|---------------------------|--------------------------|
|     |                                | (i) One hut one Bulb                 | Nil                       | Nil                      |
|     | New LT/ HT overhead service    | (ii) Other single phase<br>Services  | 250                       | 250                      |
| (A) | lines                          | (iii) Three phase Services           | 500                       | 500                      |
|     | intes                          | (iv)L.T C.T operated Meter services  | 3000                      | 3000                     |
|     |                                | (v) H.T Services                     | 5000                      | 5000                     |
| (B) | New LT underground service     | (i) Single Phase services -          | 500                       | 500                      |
| (0) | lines                          | (ii) Three phase Services            | 1000                      | 1000                     |
|     |                                | (i)Single phase Services             | 125                       | 125                      |
|     | Rating / re-rating of services | (ii)Three phase Services             | 250                       | 250                      |
| (C) |                                | (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.

### **12.2** Testing of installation

12.2.1 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

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

### 12.3 Testing of meters & metering arrangements

### 12.3.1 For testing of meter at the instance of the consumer

| Particulars   | Existing Charges<br>(Rs.) | Proposed Charges<br>(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                      |

### 12.4 Testing of HT/EHT consumer protective equipment

#### Table 12-4: Proposed Testing of HT/EHT Consumer Equipment Charges

| Particulars  | Existing<br>Charges (Rs.) | Proposed Charges<br>(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                       |

### 12.5 Disconnection / Re-connection charges

#### Table 12-5: Proposed Disconnection/Reconnection Charges

| Particulars   | Existing Charges<br>(Rs.) | Proposed Charges<br>(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                       |  |

### 12.6 Title transfer of services

#### Table 12-6: 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                   |  |  |

# 12.7 Furnishing of certified copies (to be issued to the consumers only)

| 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) Lodgor ovtract                              | 20.00 / calendar year or | 20.00 / calendar year or |  |
| (iii) Ledger extract                              | part thereof.            | part thereof.            |  |
| (iv) Agreement                                    | 50                       | 50                       |  |
| (v) Estimate                                      | 50                       | 50                       |  |

#### Table 12-7: Proposed Certified Copies Charges

## 12.8 Meter rent charges

|                        | Particulars                    | Existing Charges (Rs.)          | Proposed Charges (Rs.)          |  |  |
|------------------------|--------------------------------|---------------------------------|---------------------------------|--|--|
| (;)                    | Cingle phase motor             | 10/- per meter/ month. or part  | 10/- per meter/ month. or part  |  |  |
| (i) Single-phase meter |                                | thereof                         | thereof                         |  |  |
| (::)                   | 25/- per meter/ month. or part |                                 | 25/- per meter/ month. or part  |  |  |
| (ii)                   | Three phase meter              | thereof                         | thereof                         |  |  |
| (:::)                  | LTCT operated meters           | 200/- per meter/ month. or part | 200/- per meter/ month. or part |  |  |
| (iii)                  | LT C.T operated meters         | hereof                          |                                 |  |  |
| (1)                    | HT/EHT metering                | 500/- per meter/ month .or part | 500/- per meter/ month .or part |  |  |
| (iv)                   | equipments                     | thereof                         | thereof                         |  |  |

### 12.9 Fuse renewal charges

| Table 12-9: 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                    |  |

### 12.10 Shifting of meter board at consumer's request

#### Table 12-10: 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 13. PRAYER TO THE HON'BLE COMMISSION

### **13.1** Prayer to the Hon'ble Commission

- 13.1.1 The Electricity Department, Government of Puducherry (PED) respectfully prays to the Hon'ble Commission to:
  - 1) Admit the petition seeking True up for FY 2016-17, Annual Performance Review for FY 2017-18 and ARR and Tariff determination for FY 2018-19 as per the provisions of JERC (Multi Year Distribution Tariff) Regulations, 2014.
  - 2) Approve the total recovery of True up of FY 2016-17, Annual Performance Review for FY 2017-18 and Aggregate Revenue Requirement for FY 2018-19 and other claims as proposed by PED.
  - 3) Review the actual performance of FY 2016-17 and approve the Aggregate Revenue Requirement (ARR) and gap for FY 2016-17 based on the unaudited accounts. It is submitted that the audited certificate is awaited and the audited accounts will be furnished to the Hon'ble Commission at the time of technical validation session.
  - 4) Approve the Expected Revenue from Charges (ERC) for FY 2018-19 and the consolidated gap till FY 2018-19.
  - 5) Grant approval for the schedule of tariff, charges for services and schedule of charges as made in the petition for FY 2018-19.
  - 6) Permit EDP to comply the backlog of RPO obligation till FY 2015-16 on its own as submitted in the power purchase cost for the control period instead of depositing the amount of Rs. 13.53 Crs with Renewable Energy Agency of Puducherry (nodal agency) considering the financial constraints in allocating the required funds to the EDP.
  - 7) Grant any other relief as the Hon'ble Commission may consider appropriate.
  - 8) 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.
  - 9) 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

| EV 2016 17 (Actuals)         EV 2017 10 (Deviced Ectimates)         EV 2019 10 (Deviced interval) |                   |                                 |                |                                |                                 |                |                          |                                 |                |
|---|-------------------|---------------------------------|----------------|--------------------------------|---------------------------------|----------------|--------------------------|---------------------------------|----------------|
|   | FY                | 2016-17 (Actua                  | als)           | FY 2017-18 (Revised Estimates) |                                 |                | FY 2018-19 (Projections) |                                 |                |
| Category of Consumer  | Consumers<br>[No] | Connected<br>load<br>[HP / kVA] | Sales<br>[MUs] | Consumers<br>[No]              | Connected<br>load<br>[HP / kVA] | Sales<br>[MUs] | Consumers<br>[No]        | Connected<br>load<br>[HP / kVA] | Sales<br>[MUs] |
| Domestic  | 3,13,367          | -                               | 699.82         | 3,25,845                       | -                               | 733.82         | 3,37,845                 | -                               | 770.23         |
| Hut services  | 35,539            | -                               | 10.21          | 35,537                         | -                               | 10.21          | 35,537                   | -                               | 10.21          |
| Commercial  | 52,087            | -                               | 210.92         | 53,962                         | -                               | 222.92         | 55,762                   | -                               | 238.42         |
| Agriculture   | 6,900             | 59,538                          | 57.28          | 6,940                          | 59,538                          | 57.28          | 6,965                    | 59,538                          | 57.28          |
| Public lighting   | 50,250            | -                               | 24.24          | 50,434                         | -                               | 24.24          | 50,609                   | -                               | 24.24          |
| Industrial  | 6,483             |                                 | 153.23         | 6,529                          |                                 | 159.23         | 6,559                    |                                 | 162.41         |
| Water tanks   | 133               | -                               | 37.44          | 139                            | -                               | 40.44          | 149                      | -                               | 42.50          |
| Temporary supply  | -                 | -                               | 8.00           | -                              | -                               | 8.00           | -                        | -                               | 5              |
| Total LT  | 4,64,759          | 59,538                          | 1,201.13       | 4,79,386                       | 59,538                          | 1,256.13       | 4,93,426                 | 59,538                          | 1,310.28       |
| Industrial  | 351               | 2,44,929                        | 869.95         | 361                            | 2,50,000                        | 861.91         | 371                      | 2,55,000                        | 881.70         |
| Commercial  | 88                | 23,972                          | 74.20          | 92                             | 26,200                          | 84.33          | 99                       | 31,200                          | 89.68          |
| Government<br>Establishment and Water<br>Tank   | 60                | 21,099                          | 62.02          | 61                             | 22,380                          | 68.18          | 63                       | 22,500                          | 71.78          |
| Industrial EHT  | 7                 | 83,743                          | 258.96         | 7                              | 87,500                          | 296.02         | 7                        | 89,000                          | 296.02         |
| Total HT  | 506               | 3,73,743                        | 1,265.14       | 521                            | 3,86,080                        | 1,310.45       | 540                      | 3,97,700                        | 1,339.18       |
| Total metered   | 4,22,826          | 3,73,743                        | 2,398.78       | 4,37,430                       | 3,86,080                        | 2,499.09       | 4,51,464                 | 3,97,700                        | 2,581.97       |
| Total unmetered   | 42,439            | 59,538                          | 67.49          | 42,477                         | 59,538                          | 67.49          | 42,502                   | 59,538                          | 67.49          |
| Total   | 4,65,265          | 4,33,281                        | 2,466.27       | 4,79,907                       | 4,45,618                        | 2,566.58       | 4,93,966                 | 4,57,238                        | 2,649.46       |

Format 1 – Energy Demand (FY 2016-17 to FY 2018-19)

|      | Format 2 - information rega  |                 |        |               | -             |               |  |
|------|--|-----------------|--------|---------------|---------------|---------------|--|
|      |  | Calculation     |        | Previous Year | Current Year  | Ensuing Year  |  |
| S.No | Particulars  |                 | Unit   | (Actuals)     | (Revised est) | (Projections) |  |
|      |  |                 |        | FY 2016-17    | FY 2017-18    | FY 2018-19    |  |
| 1    | Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM * | A               | MU     | 231.32        | 216.37        | 216.37        |  |
| 2    | Input energy (metered Import) received at interface points of DISCOM network.  | В               | MU     | 2,770.86      | 2,809.19      | 2,811.59      |  |
| 3    | Input energy (metered Export) by the DISCOM at interface points of DISCOM network.   | С               | MU     | 37.38         | 20.39         |               |  |
|      | UI under drawl   | C1              |        | (116.67)      | (49.61)       | -             |  |
| 4    | Total energy available for sale within the licensed area to the consumers of the DISCOM  | D=A+B+C+C1      | MU     | 2,922.90      | 2,996.34      | 3,027.96      |  |
| 5    | Energy billed to metered consumers within the licensed area of the DISCOM  | E               | MU     | 2,398.78      | 2,499.09      | 2,581.97      |  |
| 6    | Energy billed to un-metered consumers within the licensed area of the DISCOM **  | F               | MU     | 67.49         | 67.49         | 67.49         |  |
| 7    | Power drawn by TNEB at Pondy periphery   | F1              | MU     | 16.79         | 13.98         |               |  |
| 9    | Sale to open access consumers through PED grid   | F2              | MU     | 37.01         | 20.22         |               |  |
| 10   | Total energy billed  | G=E+F+F1+F2     | MU     | 2,520.07      | 2,600.78      | 2,649.46      |  |
| 11   | Amount billed to consumer within the licensed area of DISCOM (incl FPPCA)  | Н               | Rs.Crs | 1,192.11      | 1,299.37      | 1,339.62      |  |
| 12   | Amount realized by the DISCOM out of the amount Billed at H  | I               | Rs.Crs | 1,112.76      | 1,234.40      | 1,272.64      |  |
| 13   | Collection efficiency (%) (= Revenue realized/ Amount billed)  | J=(I/H)x100     | %      | 93.34%        | 95.00%        | 95.00%        |  |
| 14   | Energy realized by the DISCOM  | K=J x G         | MU     | 2,352.33      | 2,438.25      | 2,516.99      |  |
| 15   | Distribution loss (%)  | L={(D-G)/D}x100 | %      | 13.78%        | 13.20%        | 12.50%        |  |
| 16   | AT&C Loss (%)  | M={(D-K)/D}x100 | %      | 19.52%        | 18.63%        | 16.88%        |  |

Format 2 - Information regarding Distribution Loss of Licensee

|            | Format 3 – Energy Balance  | (in MUs)                   |                               |                               |
|------------|--|----------------------------|-------------------------------|-------------------------------|
| Sr.<br>No. | Item   | Previous Year<br>(Actuals) | Current Year<br>(Revised est) | Ensuing Year<br>(Projections) |
|            |  | FY 2016-17                 | FY 2017-18                    | FY 2018-19                    |
| 1          | 2  | 4                          | 5                             | 6                             |
| A)         | Energy Requirement   |                            |                               |                               |
| 1          | Metered Sales  | 2,398.78                   | 2,499.09                      | 2,581.97                      |
| 2          | Unmetered Sales  | 67.49                      | 67.49                         | 67.49                         |
| 3          | Total Sales within the UT  | 2,466.27                   | 2,566.58                      | 2,649.46                      |
| 4          | Sales to TANGEDCO  | 16.79                      | 13.98                         | -                             |
| 5          | Sale to Open access consumer                                       | 37.01                      | 20.22                         | -                             |
| 6          | Total Sales  | 2,520.07                   | 2,600.78                      | 2,649.46                      |
| 7          | Distribution losses (%)  | 13.78%                     | 13.20%                        | 12.50%                        |
| 8          | Energy required for the Territory (MU)                             | 2,922.90                   | 2,996.34                      | 3,027.96                      |
| 9          | Sales to common pool consumers / UI                                | 116.67                     | 49.61                         |                               |
| 10         | Energy Requirement @ periphery                                     | 3,039.57                   | 3,045.95                      | 3,027.96                      |
| B)         | Energy Availability  |                            |                               |                               |
| 1          | Net thermal generation (Own+ IPP + Share from Central Stations)    | 3,038.87                   | 3,069.16                      | 2,889.62                      |
| 2          | Net hydel generation (own+shared)                                  |                            |                               |                               |
| 3          | Power purchase from Common Pool / UI / Traders / Exchange / Others | 25.93                      | 18.13                         | 193.85                        |
| 4          | Open access power at periphery                                     | 37.38                      | 20.39                         |                               |
| 5          | Net Power Purchased (1+2+3)  | 3,102.18                   | 3,107.68                      | 3,083.47                      |
| 6          | Transmission Losses  | 62.61                      | 61.73                         | 55.51                         |
| 7          | Total Energy Availability (5-6)                                    | 3,039.57                   | 3,045.95                      | 3,027.96                      |

| Format 4 – Power Purchase Cost for FY 2016-17 |                           |                  |         |      |                  |                           |                      |                  |                   |                  |                      |                               |                     |
|---|---------------------------|------------------|---------|------|------------------|---------------------------|----------------------|------------------|-------------------|------------------|----------------------|-------------------------------|---------------------|
| Sr.<br>No.                                    | Source                    | Capacity<br>(MW) | to Lice | nsee | Purchase<br>(MU) | External<br>losses<br>(%) | recd. by<br>Licensee | VC (Ps/<br>Unit) | FC (Rs.<br>Crore) | VC<br>(Rs.Crore) | Others<br>(Rs.Crore) | Supplementa<br>ry (Rs. Crore) | Total<br>(Rs.Crore) |
|   |                           | -                | %       | MW   |                  | (70)                      | (MU)                 |                  |                   |                  |                      |                               |                     |
| Α   | Central Sector Power Stat | 1                | 1       |      |                  |                           |                      |                  |                   | 1                |                      | 1                             |                     |
| I   | NTPC                      | 5,600            | 3%      | 186  | 1,213.78         | 2.15%                     | 1,187.63             | 202.73           | 102.81            | 246.07           | 1.71                 | 4.23                          | 354.81              |
|   | KSTPS                     |                  |         |      |                  |                           |                      |                  |                   |                  |                      | (0.03)                        | (0.03)              |
|   | RSTPS Stage I & II        | 2,100            | 4.03%   | 85   | 559.96           | 2.15%                     | 547.89               | 218.61           | 38.76             | 122.41           | 0.34                 | 1.13                          | 162.65              |
|   | RSTPS Stage –III          | 500              | 4.29%   | 21   | 119.75           | 2.15%                     | 117.17               | 219.27           | 13.11             | 26.26            | 0.10                 | 0.11                          | 39.57               |
|   | Talcher Stage- II         | 2,000            | 3.19%   | 64   | 450.68           | 2.15%                     | 440.97               | 166.13           | 35.70             | 74.87            | 1.54                 | 3.68                          | 115.79              |
|   | Simhadri Stage- II        | 1,000            | 1.57%   | 16   | 83.40            | 2.15%                     | 81.61                | 270.08           | 15.24             | 22.53            | (0.27)               | (0.67)                        | 36.83               |
| П   | NLC                       | 3,390            | 4.87%   | 165  | 711.87           | 2.15%                     | 696.53               | 260.81           | 86.13             | 185.66           | 0.21                 | 0.06                          | 272.07              |
|   | NLC TPS II Stage I        | 630              | 11.82%  | 74   | 333.84           | 2.15%                     | 326.65               | 265.67           | 28.45             | 88.69            | 0.36                 | 0.04                          | 117.54              |
|   | NLC TPS II Stage II       | 840              | 3.27%   | 27   | 102.35           | 2.15%                     | 100.15               | 264.92           | 9.96              | 27.12            | (0.00)               | (0.00)                        | 37.07               |
|   | NLC TPS I (Expn)          | 420              | 4.00%   | 17   | 101.43           | 2.15%                     | 99.24                | 253.19           | 13.37             | 25.68            | (0.21)               | 0.04                          | 38.88               |
|   | NLC TPS II (Expn)         | 500              | 4.00%   | 20   | 47.17            | 2.15%                     | 46.15                | 246.38           | 10.33             | 11.62            | 0.00                 | (0.01)                        | 21.94               |
|   | NTPL                      | 1,000            | 2.62%   | 26   | 127.09           | 2.15%                     | 124.35               | 256.17           | 24.03             | 32.56            | 0.05                 | -                             | 56.63               |
| Ш   | NPCIL                     | 3,320            | 2.32%   | 77   | 545.50           | 2.15%                     | 533.74               | 284.32           | -                 | 155              | 14.31                | 4.39                          | 173.79              |
|   | MAPS                      | 440              | 1.71%   | 8    | 46.74            | 2.15%                     | 45.73                | 206.56           | -                 | 9.65             | 0.33                 | 0.21                          | 10.19               |
|   | KAPS Stage I              | 440              | 3.93%   | 17   | 123.57           | 2.15%                     | 120.91               | 298.37           | -                 | 36.87            | 1.78                 | 2.11                          | 40.76               |
|   | KAPS Stage II             | 440              | 3.48%   | 15   | 96.25            | 2.15%                     | 94.17                | 298.37           | -                 | 28.72            | 1.37                 | -                             | 30.09               |
|   | Kudankulam U1             | 1,000            | 3.70%   | 37   | 196.97           | 2.15%                     | 192.72               | 354.48           | -                 | 69.82            | 10.81                | 2.07                          | 82.70               |
|   | Kudankulam U2             | 1,000            |         |      | 81.97            | 2.15%                     | 80.20                | 122.37           | -                 | 10.03            | 0.02                 | -                             | 10.05               |
| IV  | Others                    | 1,500            | 2%      | 23   | 336.39           | 2.79%                     | 327.02               | 330.65           | 27.81             | 111.23           | 2.84                 | 1.08                          | 142.96              |
|   | TNEB (Pondy)              |                  |         |      |                  |                           |                      |                  |                   |                  | 0.00                 |                               | 0.00                |
|   | TNEB (Karaikal)           |                  |         |      | 167.51           | 4.00%                     | 160.81               | 348.08           | -                 | 58.31            | 2.77                 | -                             | 61.08               |
|   | Vallur Thermal Project    | 1,500            | 2%      | 23   | 123.97           | 2.15%                     | 121.30               | 242.12           | 24.67             | 30.02            | 0.04                 | 1.08                          | 55.81               |
|   | KSEB                      |                  |         |      | 44.91            | 0.00%                     | 44.91                | 510.00           | 3.15              | 22.90            | 0.02                 | -                             | 26.07               |

Format 4 – Power Purchase Cost for FY 2016-17

#### True-up of FY2016-17, Review for FY2017-18 and ARR & Tariff Determination for FY2018-19

|   | PPCL   | 33     | 100% | 33  | 231.32   | 0.00% | 231.32   | 235.14 | 23.25  | 54.39  | 0.07    | -    | 77.72    |
|---|--|--------|------|-----|----------|-------|----------|--------|--------|--------|---------|------|----------|
| С | OTHER CHARGES  |        |      |     |          |       |          | -      | -      | -      | 62.20   |      | 62.20    |
|   | PGCIL Transmission<br>Charges, Wheeling &<br>Other Charges |        |      |     |          |       |          |        |        |        | 61.09   |      | 61.09    |
|   | POSOCO   |        |      |     |          |       |          |        |        |        | 1.10    |      | 1.10     |
| D | <b>RPO Compliance Cost</b>                                 |        |      |     |          |       |          |        |        |        | -       |      | -        |
| E | Rebate   |        |      |     |          |       |          |        |        |        | (17.98) |      | (17.98)  |
| F | Total  | 13,843 | 3%   | 483 | 3,064.80 | 2.04% | 3,002.19 | 245.75 | 240.00 | 753.19 | 63.35   | 9.76 | 1,066.30 |

|            | Firm allocation to     External     Energy |                  |                    |     |                  |                    |                                |                  |                   |                  |                      |                              |                     |
|------------|--|------------------|--------------------|-----|------------------|--------------------|--------------------------------|------------------|-------------------|------------------|----------------------|------------------------------|---------------------|
| Sr.<br>No. | Source                                     | Capacity<br>(MW) | Firm allo<br>Licer |     | Purchase<br>(MU) | External<br>losses | Energy<br>recd. by<br>Licensee | VC (Ps/<br>Unit) | FC (Rs.<br>Crore) | VC<br>(Rs.Crore) | Others<br>(Rs.Crore) | Supplementary<br>(Rs. Crore) | Total<br>(Rs.Crore) |
|            |  |                  | %                  | MW  |                  | (%)                | (MU)                           |                  |                   | . ,              |                      |                              | . ,                 |
| Α          | Central Sector Power Stat                  | tions            |                    |     |                  |                    |                                |                  |                   |                  |                      |                              |                     |
| I          | NTPC                                       | 5,600            | 3%                 | 161 | 1,134.53         | 2.04%              | 1,111.39                       | 215.35           | 102.81            | 244.32           | -                    | (27.44)                      | 319.69              |
|            | FSTPS                                      |                  |                    |     |                  |                    |                                |                  |                   |                  |                      | (0.38)                       | (0.38)              |
|            | RSTPS Stage I & II                         | 2,100            | 3.18%              | 67  | 486.36           | 2.04%              | 476.44                         | 240.01           | 38.76             | 116.73           |                      | (28.24)                      | 127.26              |
|            | RSTPS Stage -III                           | 500              | 3.41%              | 17  | 123.01           | 2.04%              | 120.50                         | 234.45           | 13.11             | 28.84            |                      | 0.65                         | 42.59               |
|            | Talcher Stage- II                          | 2,000            | 3.11%              | 62  | 424.76           | 2.04%              | 416.10                         | 163.75           | 35.70             | 69.56            |                      | 0.05                         | 105.30              |
|            | Simhadri Stage- II                         | 1,000            | 1.51%              | 15  | 100.40           | 2.04%              | 98.35                          | 290.80           | 15.24             | 29.20            |                      | 0.48                         | 44.92               |
| П          | NLC  | 3,390            | 5%                 | 177 | 1,063.57         | 2.04%              | 1,041.87                       | 286.09           | 86.13             | 304.28           | -                    | 76.42                        | 466.83              |
|            | NLC TPS II Stage I                         | 630              | 12.26%             | 77  | 510.11           | 2.04%              | 499.70                         | 287.51           | 28.45             | 146.66           |                      | 69.81                        | 244.92              |
|            | NLC TPS II Stage II                        | 840              | 3.70%              | 31  | 207.72           | 2.04%              | 203.49                         | 287.51           | 9.96              | 59.72            |                      | (0.02)                       | 69.66               |
|            | NLC TPS I (Expn)                           | 420              | 3.95%              | 17  | 118.77           | 2.04%              | 116.35                         | 268.02           | 13.37             | 31.83            |                      | 3.54                         | 48.75               |
|            | NLC TPS II (Expn)                          | 500              | 3.95%              | 20  | 66.99            | 2.04%              | 65.62                          | 261.79           | 10.33             | 17.54            |                      | 3.08                         | 30.95               |
|            | NTPL                                       | 1,000            | 3.19%              | 32  | 159.97           | 2.04%              | 156.71                         | 303.32           | 24.03             | 48.52            |                      | -                            | 72.55               |
| ш          | NPCIL                                      | 3,320            | 4%                 | 118 | 517.49           | 2.04%              | 506.93                         | 312.62           | -                 | 161.78           | -                    | 1.90                         | 163.68              |
|            | MAPS                                       | 440              | 1.91%              | 8   | 46.77            | 2.04%              | 45.82                          | 207.24           | -                 | 9.69             |                      | 0.14                         | 9.83                |
|            | KAPS Stage I                               | 440              | 4.66%              | 21  | 137.70           | 2.04%              | 134.89                         | 298.37           | -                 | 41.08            |                      | 0.62                         | 41.71               |
|            | KaPS Stage II                              | 440              | 4.20%              | 18  | 125.60           | 2.04%              | 123.04                         | 298.37           | -                 | 37.48            |                      |                              | 37.48               |
|            | Kudankulam U1                              | 1,000            | 3.69%              | 37  | 62.70            | 2.04%              | 61.42                          | 354.48           | -                 | 22.22            |                      | 1.05                         | 23.27               |
|            | Kudankulam U2                              | 1,000            | 3.35%              | 34  | 144.72           | 2.04%              | 141.77                         | 354.48           | -                 | 51.30            |                      | 0.09                         | 51.39               |
| IV         | Others                                     | 1,500            | 2%                 | 28  | 398.26           | 2.93%              | 386.61                         | 402.71           | 27.81             | 160.38           | -                    | 55.68                        | 243.88              |
|            | TNEB (Pondy)                               | -                |                    | -   |                  |                    |                                |                  |                   |                  |                      |                              | -                   |
|            | TNEB (Karaikal)                            | -                |                    | -   | 226.59           | 4.00%              | 217.53                         | 362.00           | -                 | 99.49            |                      | 54.04                        | 153.53              |
|            | Vallur Thermal Project                     | 1,500            | 1.87%              | 28  | 126.97           | 2.04%              | 124.38                         | 282.42           | 24.67             | 35.86            |                      | 1.64                         | 62.17               |
|            | KSEB                                       | -                |                    | -   | 44.70            | 0.00%              | 44.70                          | 560.00           | 3.15              | 25.03            |                      |                              | 28.18               |

Format 4 – Power Purchase Cost for FY 2017-18

#### True-up of FY2016-17, Review for FY2017-18 and ARR & Tariff Determination for FY2018-19

| v | OVER/ UNDER DRAWAL   |           |       |        | 18.13    |       | 18.13    |        |        | 1.10   |         |        | 1.10     |
|---|--|-----------|-------|--------|----------|-------|----------|--------|--------|--------|---------|--------|----------|
| В | Within State<br>Generations                                |           |       |        |          |       |          |        |        |        |         |        |          |
|   | PPCL   | 33        | 100%  | 33     | 216.37   | 0.00% | 216.37   | 207.32 | 23.25  | 44.86  |         |        | 68.11    |
| С | OTHER CHARGES  |           |       |        |          |       |          | -      | -      | -      | 59.94   |        | 59.94    |
|   | PGCIL Transmission<br>Charges, Wheeling &<br>Other Charges |           |       |        |          |       |          |        |        |        | 59.65   |        | 59.65    |
|   | POSOCO   |           |       |        |          |       |          |        |        |        | 0.29    |        | 0.29     |
| D | RPO Compliance Cost  |           |       |        |          |       |          |        |        |        | 20.00   |        | 20.00    |
| E | Rebate   |           |       |        |          |       |          |        |        |        | (18.82) |        | (18.82)  |
| F | Total  | 13,842.50 | 3.73% | 516.03 | 3,348.35 | 2.00% | 3,281.30 | 273.78 | 240.00 | 916.72 | 61.12   | 106.56 | 1,324.41 |

|            |                               | -                |                     |     |                  | Fulchase                  |                                |                  | -                 |                  | -                    |                              |                     |
|------------|-------------------------------|------------------|---------------------|-----|------------------|---------------------------|--------------------------------|------------------|-------------------|------------------|----------------------|------------------------------|---------------------|
| Sr.<br>No. | Source                        | Capacity<br>(MW) | Firm alloc<br>Licen |     | Purchase<br>(MU) | External<br>losses<br>(%) | Energy<br>recd. by<br>Licensee | VC (Ps/<br>Unit) | FC (Rs.<br>Crore) | VC<br>(Rs.Crore) | Others<br>(Rs.Crore) | Supplementary<br>(Rs. Crore) | Total<br>(Rs.Crore) |
|            |                               |                  | %                   | MW  |                  | (%)                       | (MU)                           |                  |                   |                  |                      |                              |                     |
| Α          | Central Sector Power Stations | -                |                     |     |                  |                           |                                |                  |                   |                  |                      |                              |                     |
| Ι          | NTPC                          | 5,600            | 3%                  | 161 | 1,134.53         | 2%                        | 1,111.39                       | 215.35           | 102.81            | 244.32           | -                    | -                            | 347.13              |
|            | RSTPS Stage I & II            | 2,100            | 3.18%               | 67  | 486.36           | 2%                        | 476.44                         | 240.01           | 38.76             | 116.73           |                      |                              | 155.49              |
|            | RSTPS Stage -III              | 500              | 3.41%               | 17  | 123.01           | 2%                        | 120.50                         | 234.45           | 13.11             | 28.84            |                      |                              | 41.95               |
|            | Talcher Stage- II             | 2,000            | 3.11%               | 62  | 424.76           | 2%                        | 416.10                         | 163.75           | 35.70             | 69.56            |                      |                              | 105.25              |
|            | Simhadri Stage- II            | 1,000            | 1.51%               | 15  | 100.40           | 2%                        | 98.35                          | 290.80           | 15.24             | 29.20            |                      |                              | 44.44               |
| П          | NLC                           | 3,390            | 5%                  | 177 | 1,063.57         | 2%                        | 1,041.87                       | 286.09           | 86.13             | 304.28           | -                    | -                            | 390.41              |
|            | NLC TPS II Stage I            | 630              | 12.26%              | 77  | 510.11           | 2%                        | 499.70                         | 287.51           | 28.45             | 146.66           |                      |                              | 175.11              |
|            | NLC TPS II Stage II           | 840              | 3.70%               | 31  | 207.72           | 2%                        | 203.49                         | 287.51           | 9.96              | 59.72            |                      |                              | 69.68               |
|            | NLC TPS I (Expn)              | 420              | 3.95%               | 17  | 118.77           | 2%                        | 116.35                         | 268.02           | 13.37             | 31.83            |                      |                              | 45.20               |
|            | NLC TPS II (Expn)             | 500              | 3.95%               | 20  | 66.99            | 2%                        | 65.62                          | 261.79           | 10.33             | 17.54            |                      |                              | 27.87               |
|            | NTPL                          | 1,000            | 3.19%               | 32  | 159.97           | 2%                        | 156.71                         | 303.32           | 24.03             | 48.52            |                      |                              | 72.55               |
| Ш          | NPCIL                         | 3,320            | 4%                  | 118 | 613              | 2%                        | 601                            | 1,513            | -                 | 196              | -                    | -                            | 196                 |
|            | MAPS                          | 440              | 1.91%               | 8   | 46.77            | 2%                        | 45.82                          | 207.24           |                   | 9.69             |                      |                              | 9.69                |
|            | KAPS Stage I                  | 440              | 4.66%               | 21  | 137.70           | 2%                        | 134.89                         | 298.37           |                   | 41.08            |                      |                              | 41.08               |
|            | KAPS Stage II                 | 440              | 4.20%               | 18  | 125.60           | 2%                        | 123.04                         | 298.37           |                   | 37.48            |                      |                              | 37.48               |
|            | Kudankulam U1                 | 1,000            | 3.69%               | 37  | 127.13           | 2%                        | 124.54                         | 354.48           |                   | 45.07            |                      |                              | 45.07               |
|            | Kudankulam U2                 | 1,000            | 3.35%               | 34  | 176.08           | 2%                        | 172.48                         | 354.48           |                   | 62.41            |                      |                              | 62.41               |
| IV         | Others                        | 1,500            | 0%                  | 28  | 176.97           | 3%                        | 172.38                         | 357.18           | 24.67             | 63.21            | -                    | -                            | 87.88               |
|            | TNEB (Pondy)                  | -                |                     | -   |                  |                           |                                |                  |                   |                  |                      |                              | -                   |
|            | TNEB (Karaikal)               | -                |                     | -   | 50.00            | 4%                        | 48.00                          | 547.00           | -                 | 27.35            |                      |                              | 27.35               |
|            | Vallur Thermal Project        | 1,500            | 1.87%               | 28  | 126.97           | 2%                        | 124.38                         | 282.42           | 24.67             | 35.86            |                      |                              | 60.53               |
| V          | RE Power Purchase (Wind)      |                  |                     |     | 193.85           |                           | 193.85                         | 350.00           |                   | 67.85            |                      |                              | 67.85               |
| В          | Within State Generations      |                  |                     |     |                  |                           |                                |                  |                   |                  |                      |                              |                     |
|            | PPCL                          | 33               | 100.00%             | 33  | 216.37           | 0%                        | 216.37                         | 207.32           | 23.25             | 44.86            |                      |                              | 68.11               |

Format 4 – Power Purchase Cost for FY 2018-19

| С | OTHER CHARGES   |           |       |        |          |       |          | -      | -      | -      | 59.94   |   | 59.94    |
|---|---|-----------|-------|--------|----------|-------|----------|--------|--------|--------|---------|---|----------|
|   | PGCIL Transmission Charges,<br>Wheeling & Other Charges |           |       |        |          |       |          |        |        |        | 59.65   |   | 59.65    |
|   | POSOCO  |           |       |        |          |       |          |        |        |        | 0.29    |   | 0.29     |
| D | RPO Compliance Cost                                     |           |       |        |          |       |          |        |        |        | 24.21   |   | 24.21    |
| E | Rebate  |           |       |        |          |       |          |        |        |        | (18.82) |   | (18.82)  |
| F | Total   | 13,842.50 | 3.73% | 516.03 | 3,398.57 | 1.82% | 3,336.63 | 270.78 | 236.86 | 920.25 | 65.34   | - | 1,222.44 |

|            | Firm allocation to External Energy   |                  |        |                   |                  |                    |                                |                  |                   |                  |                      |                              |                     |
|------------|--------------------------------------|------------------|--------|-------------------|------------------|--------------------|--------------------------------|------------------|-------------------|------------------|----------------------|------------------------------|---------------------|
| Sr.<br>No. | Source                               | Capacity<br>(MW) |        | cation to<br>nsee | Purchase<br>(MU) | External<br>losses | Energy<br>recd. by<br>Licensee | VC (Ps/<br>Unit) | FC (Rs.<br>Crore) | VC<br>(Rs.Crore) | Others<br>(Rs.Crore) | Supplementary<br>(Rs. Crore) | Total<br>(Rs.Crore) |
|            |                                      | ()               | %      | MW                | (                | (%)                | (MU)                           | <b>,</b>         | ,                 | (                | (                    | (                            | (                   |
| Α          | <b>Central Sector Power Stations</b> |                  |        |                   |                  |                    |                                |                  |                   |                  |                      |                              |                     |
| Т          | NTPC                                 | 5,600            | 2.88%  | 161               | 1,134.53         | 2.04%              | 1,111.39                       | 215.35           | 102.81            | 244.32           |                      | (27.44)                      | 319.69              |
|            | FSTPS                                |                  |        |                   |                  |                    |                                |                  |                   |                  |                      | (0.38)                       | (0.38)              |
|            | RSTPS Stage I & II                   | 2,100            | 3.18%  | 67                | 486              | 2.04%              | 476.44                         | 240.01           | 38.76             | 116.73           |                      | (28.24)                      | 127.26              |
|            | RSTPS Stage -III                     | 500              | 3.41%  | 17                | 123              | 2.04%              | 120.50                         | 234.45           | 13.11             | 28.84            |                      | 0.65                         | 42.59               |
|            | Talcher Stage- II                    | 2,000            | 3.11%  | 62                | 425              | 2.04%              | 416.10                         | 163.75           | 35.70             | 69.56            |                      | 0.05                         | 105.30              |
|            | Simhadri Stage- II                   | 1,000            | 1.51%  | 15                | 100              | 2.04%              | 98.35                          | 290.80           | 15.24             | 29.20            |                      | 0.48                         | 44.92               |
| П          | NLC                                  | 3,390            | 5.21%  | 177               | 802.51           | 2.04%              | 786.14                         | 285.63           | 86.13             | 229.22           |                      | 76.42                        | 391.77              |
|            | NLC TPS II Stage I                   | 630              | 12.26% | 77                | 249.05           | 2.04%              | 243.97                         | 287.51           | 28.45             | 71.60            |                      | 69.81                        | 169.86              |
|            | NLC TPS II Stage II                  | 840              | 3.70%  | 31                | 207.72           | 2.04%              | 203.49                         | 287.51           | 9.96              | 59.72            |                      | (0.02)                       | 69.66               |
|            | NLC TPS I (Expn)                     | 420              | 3.95%  | 17                | 119              | 2.04%              | 116.35                         | 268.02           | 13.37             | 31.83            |                      | 3.54                         | 48.75               |
|            | NLC TPS II (Expn)                    | 500              | 3.95%  | 20                | 67               | 2.04%              | 65.62                          | 261.79           | 10.33             | 17.54            |                      | 3.08                         | 30.95               |
|            | NTPL                                 | 1,000            | 3.19%  | 32                | 160              | 2.04%              | 156.71                         | 303.32           | 24.03             | 48.52            |                      | -                            | 72.55               |
| Ш          | NPCIL                                | 3,320            | 3.55%  | 118               | 517              | 2.04%              | 507                            | 312.62           | -                 | 162              |                      | 1.90                         | 164                 |
|            | MAPS                                 | 440              | 1.91%  | 8                 | 47               | 2.04%              | 45.82                          | 207.24           | -                 | 9.69             |                      | 0.14                         | 9.83                |
|            | KAPS Stage I                         | 440              | 4.66%  | 21                | 138              | 2.04%              | 134.89                         | 298.37           | -                 | 41.08            |                      | 0.62                         | 41.71               |
|            | KAPS Stage II                        | 440              | 4.20%  | 18                | 126              | 2.04%              | 123.04                         | 298.37           | -                 | 37.48            |                      | -                            | 37.48               |
|            | Kudankulam U1                        | 1,000            | 3.69%  | 37                | 63               | 2.04%              | 61.42                          | 354.48           | -                 | 22.22            |                      | 1.05                         | 23.27               |
|            | Kudankulam U2                        | 1,000            | 3.35%  | 34                | 145              | 2.04%              | 141.77                         | 354.48           | -                 | 51.30            |                      | 0.09                         | 51.39               |
| IV         | Others                               | 1,500.00         | 1.87%  | 28.05             | 398.26           | 2.93%              | 386.61                         | 402.71           | 27.81             | 160.38           |                      | 55.68                        | 243.88              |
|            | TNEB (Pondy)                         |                  |        |                   | -                |                    | -                              | -                | -                 | -                |                      |                              | -                   |
|            | TNEB (Karaikal)                      |                  |        |                   | 227              | 4.00%              | 217.53                         | 362.00           | -                 | 99.49            |                      | 54.04                        | 153.53              |
|            | Vallur Thermal Project               | 1,500            | 1.87%  | 28                | 127              | 2.04%              | 124.38                         | 282.42           | 24.67             | 35.86            |                      | 1.64                         | 62.17               |
|            | KSEB                                 |                  |        |                   | 45               | 0.00%              | 44.70                          | 560.00           | 3.15              | 25.03            |                      |                              | 28.18               |

#### Format 4 A – Power Purchase Cost (under MOD) for FY 2017-18

#### True-up of FY2016-17, Review for FY2017-18 and ARR & Tariff Determination for FY2018-19

| v | OVER/ UNDER DRAWAL   |           |         |        | 18.13    |       | 18.13    |        | -      | 1.10   |         |        | 1.10     |
|---|--|-----------|---------|--------|----------|-------|----------|--------|--------|--------|---------|--------|----------|
| В | Within State Generations                                   | ·         |         |        |          |       |          |        |        |        |         |        |          |
|   | PPCL   | 33        | 100.00% | 33     | 216      | 0.00% | 216.37   | 207    | 23     | 44.86  | -       |        | 68.11    |
| С | OTHER CHARGES  |           |         |        |          |       |          |        |        |        | 59.94   |        | 59.94    |
|   | PGCIL Transmission<br>Charges, Wheeling & Other<br>Charges |           |         |        |          |       |          |        |        |        | 59.65   |        | 59.65    |
|   | POSOCO   |           |         |        |          |       |          |        |        |        | 0.29    |        | 0.29     |
| D | RPO Compliance Cost  |           |         |        |          |       |          |        |        |        | 20.00   |        | 20.00    |
| E | Rebate   |           |         |        |          |       |          |        |        |        | (18.82) |        | (18.82)  |
| F | Total  | 13,842.50 | 3.73%   | 516.03 | 3,087.29 | 2.00% | 3,025.56 | 272.62 | 240.00 | 841.67 | 61.12   | 106.56 | 1,249.35 |

|            |                                  |                  |        |                    |                  | 50 0050 (          | under wi                       | 00,101           | 1 2010            | 15               |                      |                              |                     |
|------------|----------------------------------|------------------|--------|--------------------|------------------|--------------------|--------------------------------|------------------|-------------------|------------------|----------------------|------------------------------|---------------------|
| Sr.<br>No. | Source                           | Capacity<br>(MW) |        | ocation to<br>nsee | Purchase<br>(MU) | External<br>losses | Energy<br>recd. by<br>Licensee | VC (Ps/<br>Unit) | FC (Rs.<br>Crore) | VC<br>(Rs.Crore) | Others<br>(Rs.Crore) | Supplementary<br>(Rs. Crore) | Total<br>(Rs.Crore) |
|            |                                  | ()               | %      | MW                 | (                | (%)                | (MU)                           | ,                | ,                 | (                | (                    | (                            | (                   |
| Α          | Central Sector Power<br>Stations |                  |        |                    |                  |                    |                                |                  |                   |                  |                      |                              |                     |
| I          | NTPC                             | 5,600            | 2.88%  | 161                | 1,134.53         | 2.04%              | 1,111.39                       | 215.35           | 102.81            | 244.32           | -                    |                              | 347.13              |
|            | RSTPS Stage I & II               | 2,100            | 3.18%  | 67                 | 486.36           | 2.04%              | 476.44                         | 240.01           | 38.76             | 116.73           | -                    |                              | 155.49              |
|            | RSTPS Stage -III                 | 500              | 3.41%  | 17                 | 123.01           | 2.04%              | 120.50                         | 234.45           | 13.11             | 28.84            | -                    |                              | 41.95               |
|            | Talcher Stage- II                | 2,000            | 3.11%  | 62                 | 424.76           | 2.04%              | 416.10                         | 163.75           | 35.70             | 69.56            | -                    |                              | 105.25              |
|            | Simhadri Stage- II               | 1,000            | 1.51%  | 15                 | 100.40           | 2.04%              | 98.35                          | 290.80           | 15.24             | 29.20            | -                    |                              | 44.44               |
| П          | NLC                              | 3,390            | 5%     | 177                | 748.47           | 2.04%              | 733.20                         | 285.49           | 86.13             | 213.68           | -                    |                              | 299.82              |
|            | NLC TPS II Stage I               | 630              | 12.26% | 77                 | 195.01           | 2.04%              | 191.03                         | 287.51           | 28.45             | 56.07            | -                    |                              | 84.52               |
|            | NLC TPS II Stage II              | 840              | 3.70%  | 31                 | 207.72           | 2.04%              | 203.49                         | 287.51           | 9.96              | 59.72            | -                    |                              | 69.68               |
|            | NLC TPS I (Expn)                 | 420              | 3.95%  | 17                 | 118.77           | 2.04%              | 116.35                         | 268.02           | 13.37             | 31.83            | -                    |                              | 45.20               |
|            | NLC TPS II (Expn)                | 500              | 3.95%  | 20                 | 66.99            | 2.04%              | 65.62                          | 261.79           | 10.33             | 17.54            | -                    |                              | 27.87               |
|            | NTPL                             | 1,000            | 3.19%  | 32                 | 159.97           | 2.04%              | 156.71                         | 303.32           | 24.03             | 48.52            |                      |                              | 72.55               |
| Ш          | NPCIL                            | 3,320            | 4%     | 118                | 613              | 2.04%              | 601                            | 319.16           | -                 | 196              | -                    |                              | 196                 |
|            | MAPS                             | 440              | 1.91%  | 8                  | 46.77            | 2.04%              | 45.82                          | 207.24           | -                 | 9.69             | -                    |                              | 9.69                |
|            | KAPS Stage I                     | 440              | 4.66%  | 21                 | 137.70           | 2.04%              | 134.89                         | 298.37           | -                 | 41.08            | -                    |                              | 41.08               |
|            | KAPS Stage II                    | 440              | 4.20%  | 18                 | 125.60           | 2.04%              | 123.04                         | 298.37           | -                 | 37.48            |                      |                              | 37.48               |
|            | Kudankulam U1                    | 1,000            | 3.69%  | 37                 | 127.13           | 2.04%              | 124.54                         | 354.48           | -                 | 45.07            | -                    |                              | 45.07               |
|            | Kudankulam U2                    | 1,000            | 3.35%  | 34                 | 176.08           | 2.04%              | 172.48                         | 354.48           | -                 | 62.41            | -                    |                              | 62.41               |
| IV         | Others                           | 1,500.00         | 2%     | 28.05              | 176.97           | 2.59%              | 172.38                         | 357.18           | 24.67             | 63.21            | -                    |                              | 87.88               |
|            | TNEB (Pondy)                     |                  |        |                    | -                |                    | -                              | -                | -                 | -                | -                    |                              | -                   |
|            | TNEB (Karaikal)                  |                  |        |                    | 50.00            | 4.00%              | 48.00                          | 547.00           | -                 | 27.35            | -                    |                              | 27.35               |
|            | Vallur Thermal Project           | 1,500            | 2%     | 28                 | 126.97           | 2.04%              | 124.38                         | 282.42           | 24.67             | 35.86            | -                    |                              | 60.53               |
|            | KSEB                             |                  |        |                    | -                | 0.00%              | -                              | 560.00           | -                 | -                | -                    |                              | -                   |
| v          | RE Power Purchase (Solar)        | -                |        |                    | 193.85           |                    | 193.85                         | 350.00           |                   | 67.85            |                      |                              | 67.85               |

Format 4 A – Power Purchase Cost (under MOD) for FY 2018-19

## True-up of FY2016-17, Review for FY2017-18 and ARR & Tariff Determination for FY2018-19

| В | Within State Generations                                   |           |       |        |          |       |          |        |        |        |         |   |          |
|---|--|-----------|-------|--------|----------|-------|----------|--------|--------|--------|---------|---|----------|
|   | PPCL   | 33        | 100%  | 33     | 216.37   | 0.00% | 216.37   | 207.32 | 23.25  | 44.86  | -       |   | 68.11    |
| С | OTHER CHARGES  |           |       |        |          |       |          |        |        |        | 59.94   |   | 59.94    |
|   | PGCIL Transmission<br>Charges, Wheeling & Other<br>Charges |           |       |        |          |       |          |        |        |        | 59.65   |   | 59.65    |
|   | POSOCO   |           |       |        |          |       |          |        |        |        | 0.29    |   | 0.29     |
| D | RPO Compliance Cost  |           |       |        |          |       |          |        |        |        | 24.21   |   | 24.21    |
| E | Rebate   |           |       |        |          |       |          |        |        |        | (18.82) |   | (18.82)  |
| F | Total  | 13,842.50 | 3.73% | 516.03 | 3,083.47 | 1.80% | 3,027.96 | 269.06 | 236.86 | 829.65 | 65.34   | - | 1,131.85 |

| <b>C</b> N |   |         | Previous Year (Audit) |          |              |          |          | Ensuing Year<br>(Actuals) |              | Current year<br>(Projections) |              |          | ng Year<br>ections) |          |
|------------|---|---------|-----------------------|----------|--------------|----------|----------|---------------------------|--------------|-------------------------------|--------------|----------|---------------------|----------|
| S.N<br>o   | Description                             | Unit    | FY 2010-              | FY 2011- | FY 2012-     | FY 2013- | FY 2014- | FY 2015-                  | FY 2         | 2016-17                       | FY           | 2017-18  | FY 2                | 018-19   |
|            |   |         | 11                    | 12       | 13           | 14       | 15       | 16                        | Physic<br>al | REC                           | Physic<br>al | REC      | Physic<br>al        | REC      |
| 1          | Sales Within State                      | MUs     | 2,182.48              | 2,321.29 | 2,474.9<br>8 | 2,365.72 | 2,366.32 | 2,398.00                  |              | 2,466.27                      |              | 2,566.58 |                     | 2,649.46 |
| 2          | RPO Obligation                          | %       | 1.00%                 | 2.00%    | 3.00%        | 3.00%    | 3.30%    | 3.55%                     |              | 4.85%                         |              | 6.70%    |                     | 9.00%    |
|            | - Solar                                 | %       | 0.25%                 | 0.30%    | 0.40%        | 0.40%    | 0.60%    | 0.85%                     |              | 1.65%                         |              | 2.50%    |                     | 3.60%    |
|            | - Non Solar                             | %       | 0.75%                 | 1.70%    | 2.60%        | 2.60%    | 2.70%    | 2.70%                     |              | 3.20%                         |              | 4.20%    |                     | 5.40%    |
| 3          | RPO Obligation                          | MUs     | 21.82                 | 46.43    | 74.25        | 70.97    | 78.09    | 85.13                     |              | 119.61                        |              | 171.96   |                     | 238.45   |
|            | - Solar                                 | MUs     | 5.46                  | 6.96     | 9.90         | 9.46     | 14.20    | 20.38                     |              | 40.69                         |              | 64.16    |                     | 95.38    |
|            | - Non Solar                             | MUs     | 16.37                 | 39.46    | 64.35        | 61.51    | 63.89    | 64.75                     |              | 78.92                         |              | 107.80   |                     | 143.07   |
| 4          | RPO Purchase                            |         |                       |          |              |          |          |                           |              |                               |              |          |                     |          |
|            | - Solar                                 | MUs     |                       |          |              |          |          | 69.00                     | 0.50         |                               | 0.75         |          | 196.35              |          |
|            | - Non Solar                             | MUs     |                       |          | 48.00        | 112.00   | 90.69    | 14.00                     |              |                               |              | 133.30   |                     | 242.12   |
| 5          | Cumulative RPO Oblig                    | gation  |                       |          |              |          |          |                           |              |                               |              |          |                     |          |
|            | - Solar                                 | MUs     | 5.46                  | 12.42    | 22.32        | 31.78    | 45.98    | (2.64)                    |              | 37.56                         |              | 100.97   |                     | 0.00     |
|            | - Non Solar                             | MUs     | 16.37                 | 55.83    | 72.18        | 21.69    | (5.11)   | 45.64                     |              | 124.56                        |              | 99.05    |                     | 0.00     |
| 6          | Floor Price of REC<br>Certificates /MWH |         |                       |          |              |          |          |                           |              |                               |              |          |                     |          |
|            | - Solar                                 | Rs./MWh |                       | 930      | 00           |          |          |                           |              | 3500                          |              |          | 1000                |          |
|            | - Non Solar                             | Rs./MWh |                       | 150      | 00           |          |          |                           |              | 1500                          |              |          | 1000                |          |
| 7          | Amount for RPO Com                      | pliance |                       |          |              |          |          |                           |              |                               |              |          |                     |          |
|            | - Solar                                 | Rs. Crs |                       |          |              |          |          |                           |              | -                             |              | -        |                     | -        |
|            | - Non Solar                             | Rs. Crs |                       |          |              |          |          |                           |              | -                             |              | 20.00    |                     | 24.21    |
| 8          | Total (Rs Crores)                       | Rs. Crs |                       |          |              |          |          |                           |              | 0.00                          |              | 20.00    |                     | 24.21    |

# Format 4 A –Information Regarding RPO

| Sr.<br>No. | Particulars                                 | Previous<br>Year<br>(Prov.)<br>FY 2016-17 | Current Year<br>(Rev. Est)<br>FY 2017-18 | Ensuing Year<br>(Projection)<br>FY 2018-19 |
|------------|---|---|--|--|
| 1          | Opening equity (30% of GFA)                 | 198.27                                    | 202.85                                   | 222.20                                     |
| 2          | Addition in Equity (30% of addition in GFA) | 4.57                                      | 19.35                                    | 16.29                                      |
| 3          | Closing Equity (1+2)                        | 202.85                                    | 222.20                                   | 238.49                                     |
| 4          | Average Equity Amount                       | 200.56                                    | 212.52                                   | 230.34                                     |
| 5          | Reasonable return @ 16%                     | 32.09                                     | 34.00                                    | 36.86                                      |

Format 6 – CAPITAL BASE AND RETURN

\* - As per MYT Regulations 2014 & methodology adopted in T.O. dt. 16/05/17

#### Format 6 A – DETAILS OF GFA / WIP AND CONSUMER CONTRIBUTION

| Sr.<br>No. | Particulars                                   | WIP    | Fixed Assets |
|------------|---|--------|--------------|
|            | As on 31st March of enusing year (15-16)      | 78.51  | 660.92       |
|            | Add capital expenditure during FY 2016-<br>17 | 62.31  |              |
| 1          | Add capitalised during FY 2016-17             |        | 15.25        |
|            | Total:  | 140.82 | 676.16       |
|            | Less transferred to fixed assets              | 15.25  |              |
|            | As on 31st March of Ensuing year (16-17)      | 125.57 | 676.16       |
|            | Add capital expenditure during FY 2017-<br>18 | 48.31  |              |
| 2          | Add capitalised during FY 2017-18             |        | 64.49        |
|            | Total:  | 173.88 | 740.66       |
|            | Less transferred to fixed assets              | 64.49  |              |
|            | As on 31st March of ensuing year (17-18)      | 109.39 | 740.66       |
|            | Add capital expenditure during FY 2018-<br>19 | 68.31  |              |
| 3          | Add capitalised during FY 2018-19             |        | 54.31        |
|            | Total:  | 177.70 | 794.97       |
|            | Less transferred to fixed assets              | 54.31  |              |
| 4          | As on 31st March of ensuing year (18-19)      | 123.39 | 794.97       |

| Sr. | Particulars  | Amount |  |  |  |  |  |  |  |
|-----|--|--------|--|--|--|--|--|--|--|
| А   | Accumulated Depreciation                             |        |  |  |  |  |  |  |  |
| 1   | As on 31st March of Previous year (15-16)            | 328.46 |  |  |  |  |  |  |  |
| 2   | Add: Depreciation for Previous year (16-17)          | 24.81  |  |  |  |  |  |  |  |
| 3   | As on 31st March of Previous year (16-17)            | 353.27 |  |  |  |  |  |  |  |
| 4   | Add: Depreciation for current year (17-18)           | 26.51  |  |  |  |  |  |  |  |
| 5   | As on 31st March of current year (17-18)             | 379.78 |  |  |  |  |  |  |  |
| 6   | Add: Depreciation for current year (18-19)           | 29.65  |  |  |  |  |  |  |  |
| 7   | As on 31st March of current year (18-19)             | 409.43 |  |  |  |  |  |  |  |
|     |  |        |  |  |  |  |  |  |  |
| В   | Consumers Contribution                               |        |  |  |  |  |  |  |  |
| 1   | As on 31st March of Previous year (15-16)            | 22.49  |  |  |  |  |  |  |  |
| 2   | Add: Consumer Contribution for Previous year (16-17) | 4.93   |  |  |  |  |  |  |  |
| 3   | As on 31st March of Previous year (16-17)            | 27.43  |  |  |  |  |  |  |  |

#### 6B - Details of Consumer contribution

#### Format 7 – COST OF FIXED ASSETS

| Sr.<br>No. | Assets group                         | Closing<br>balance<br>at the<br>end of<br>previous<br>year<br>2015-16 | Addition<br>during<br>previous<br>year<br>2016-17 | Closing<br>balance<br>at the<br>end of<br>previous<br>year<br>2016-17 | Addition<br>during<br>previous<br>year<br>2017-18 | Closing<br>balance<br>at the<br>end of<br>previous<br>year<br>2017-18 | Addition<br>during<br>previous<br>year<br>2018-19 | Closing<br>balance<br>at the<br>end of<br>previous<br>year<br>2018-19 |
|------------|--------------------------------------|---|---|---|---|---|---|---|
| 1          | Land and Land<br>rights              | 7.35  | -   | 7.35  |   | 7.35  |   | 7.35  |
| 2          | Building                             | 17.37   | -   | 17.37   |   | 17.37   |   | 17.37   |
| 3          | Plant &<br>Machinery                 | 367.59  | 12.04   | 379.63  | 59.85   | 439.48  | 38.82   | 478.30  |
| 4          | Lines and Cables<br>Network          | 233.64  | 3.20  | 236.85  | 4.34  | 241.19  | 14.46   | 255.65  |
| 5          | Vehicles                             | 1.89  | -   | 1.89  |   | 1.89  |   | 1.89  |
| 6          | Furniture and<br>Fixtures            | 0.15  | -   | 0.15  |   | 0.15  |   | 0.15  |
| 7          | Office<br>Equipments                 | 0.84  | -   | 0.84  |   | 0.84  |   | 0.84  |
| 8          | IT Equipments                        | 2.00  | -   | 2.00  |   | 2.00  |   | 2.00  |
| 9          | Testing &<br>Measuring<br>Equipments | 3.31  | -   | 3.31  | 0.31  | 3.62  | 1.03  | 4.66  |
| 10         | SCADA Centre                         | 26.77   | -   | 26.77   |   | 26.77   |   | 26.77   |
| 11         | Others                               | -   |   | -   |   | -   |   | -   |
| 20         | Total                                | 660.92  | 15.25   | 676.16  | 64.49   | 740.66  | 54.31   | 794.97  |

| Sr.<br>No. | Particulars                 | Previous Year<br>(Actuals) | Current Year<br>(Revised Est) | Ensuing Year<br>(Projections) |  |  |  |  |  |  |
|------------|-----------------------------|----------------------------|-------------------------------|-------------------------------|--|--|--|--|--|--|
|            |                             | FY 2016-17                 | FY 2017-18                    | FY 2018-19                    |  |  |  |  |  |  |
| 1          | Opening Balance             | 78.51                      | 125.57                        | 109.39                        |  |  |  |  |  |  |
| 2          | Add: New Investments        | 62.31                      | 48.31                         | 68.31                         |  |  |  |  |  |  |
| 3          | Total                       | 140.82                     | 173.88                        | 177.70                        |  |  |  |  |  |  |
| 4          | Less Investment Capitalized | 15.25                      | 64.49                         | 54.31                         |  |  |  |  |  |  |
| 5          | Closing Balance             | 125.57                     | 109.39                        | 123.39                        |  |  |  |  |  |  |

#### Format 8 – DETAILS OF WORK IN PROGRESS

#### Format 9 – INTEREST CAPITALISED

| Sr.<br>No. | Interest Capitalized                  | Previous Year<br>(Audit) | Current Year<br>(Revised Est) | Ensuing Year<br>(Projections) |  |
|------------|---------------------------------------|--------------------------|-------------------------------|-------------------------------|--|
| 140.       |                                       | FY 2016-17               | FY 2017-18                    | FY 2018-19                    |  |
| 1          | WIP                                   | 125.57                   | 109.39                        | 123.39                        |  |
| 2          | GFA* at the end of the year           | 676.16                   | 740.66                        | 794.97                        |  |
| 3          | WIP+GFA at the end of the year        | 801.73                   | 850.05                        | 918.36                        |  |
| 4          | Interest (excluding interest on WCL*) | 18.62                    | 18.93                         | 20.83                         |  |
| 5          | Interest Capitalized                  | -                        | 1.43                          | 0.58                          |  |
|            |                                       |                          |                               |                               |  |

|            | Details of Ioans for Ff 2010-17 (Actuals) (RS. Crore) |                    |                          |                                |                                 |                    |                                  |  |  |  |
|------------|---|--------------------|--------------------------|--------------------------------|---------------------------------|--------------------|----------------------------------|--|--|--|
| SI.<br>No. | Particulars (source)                                  | Opening<br>balance | Rate of<br>interest<br>* | Addition<br>during<br>the year | Repayment<br>during the<br>year | Closing<br>balance | Amount<br>of<br>Interest<br>paid |  |  |  |
| 1          | SLR Bonds   | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 2          | Non SLR Bonds   | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 3          | LIC   | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 4          | REC   | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 5          | Commercial Banks                                      | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 6          | Letter of Credit Charges                              | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 7          | Lease rental  | 4.66               | 8.22%                    |                                | 1.67                            | 2.99               | 0.26                             |  |  |  |
| 8          | PFC / REC *   | 18.60              | 11.50%                   |                                |                                 | 18.60              | 2.14                             |  |  |  |
| 9          | PFC - Loan No.18003004                                | -                  |                          |                                |                                 | -                  | -                                |  |  |  |
| 10         | PFC - Loan No.18233001 to<br>004                      | -                  |                          |                                |                                 | -                  | -                                |  |  |  |
| 11         | Working capital loan                                  | -                  |                          |                                |                                 | -                  | -                                |  |  |  |
| 12         | Others/JICA   | -                  | 6%                       |                                |                                 | -                  | -                                |  |  |  |
| 13         | Total   | 23.26              |                          | -                              | 1.67                            | 21.59              | 2.40                             |  |  |  |
|            | Add Govt. Ioan  | -                  |                          |                                |                                 |                    |                                  |  |  |  |
| 14         | -State Govt.  | -                  |                          |                                |                                 |                    |                                  |  |  |  |
| 14         | -Central Govt.  | -                  |                          |                                |                                 |                    |                                  |  |  |  |
|            | Total   | -                  | -                        | -                              | -                               | -                  | -                                |  |  |  |
| 15         | Total (13+14)   | 23.26              |                          | -                              | 1.67                            | 21.59              | 2.40                             |  |  |  |
| 16         | Less capitalization #                                 |                    |                          |                                |                                 |                    |                                  |  |  |  |
| 17         | Net interest  | 23.26              |                          | -                              | 1.67                            | 21.59              | 2.40                             |  |  |  |
| 18         | Add prior period                                      |                    |                          |                                |                                 |                    |                                  |  |  |  |
| 19         | Total interest  | 23.26              | -                        | -                              | 1.67                            | 21.59              | 2.40                             |  |  |  |
| 20         | Finance charges                                       |                    |                          |                                |                                 |                    | 2.54                             |  |  |  |
| 21         | Total Interest and Finance<br>Charges                 | 23.26              | -                        | -                              | 1.67                            | 21.59              | 4.94                             |  |  |  |

## Format 10 – DETAILS OF LOANS Details of loans for FY 2016-17 (Actuals) (Rs. Crore)

|            | Details of loans for FY 2017-18 (Revised Estimates) (Rs. Crore) |                    |                          |                                |                                 |                    |                                  |  |  |  |
|------------|---|--------------------|--------------------------|--------------------------------|---------------------------------|--------------------|----------------------------------|--|--|--|
| SI.<br>No. | Particulars (source)  | Opening<br>balance | Rate of<br>interest<br>* | Addition<br>during<br>the year | Repayment<br>during the<br>year | Closing<br>balance | Amount<br>of<br>Interest<br>paid |  |  |  |
| 1          | SLR Bonds   | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 2          | Non SLR Bonds   | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 3          | LIC   | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 4          | REC   | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 5          | Commercial Banks  | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 6          | Letter of Credit Charges  | -                  | -                        |                                |                                 | -                  | -                                |  |  |  |
| 7          | Lease rental  | 2.99               | 8.22%                    |                                |                                 | 2.99               | 0.25                             |  |  |  |
| 8          | PFC / REC *   | 18.60              | 11.50%                   | 25.00                          |                                 | 43.60              | 3.58                             |  |  |  |
| 9          | PFC - Loan No.18003004  | -                  |                          |                                |                                 | -                  | -                                |  |  |  |
| 10         | PFC - Loan No.18233001 to 004                                   | -                  |                          |                                |                                 | -                  | -                                |  |  |  |
| 11         | Working capital loan  | -                  |                          |                                |                                 | -                  | -                                |  |  |  |
| 12         | Others/JICA   | -                  | 6%                       |                                |                                 | -                  | -                                |  |  |  |
| 13         | Total   | 21.59              |                          | 25.00                          | -                               | 46.59              | 3.82                             |  |  |  |
|            | Add Govt. Ioan  | -                  |                          |                                |                                 |                    |                                  |  |  |  |
| 14         | -State Govt.  | -                  |                          |                                |                                 |                    |                                  |  |  |  |
| 14         | -Central Govt.  | -                  |                          |                                |                                 |                    |                                  |  |  |  |
|            | Total   | -                  | -                        | -                              | -                               | -                  | -                                |  |  |  |
| 15         | Total (13+14)   | 21.59              |                          | 25.00                          | -                               | 46.59              | 3.82                             |  |  |  |
| 16         | Less capitalization #   |                    |                          |                                |                                 |                    | 1.43                             |  |  |  |
| 17         | Net interest  | 21.59              |                          | 25.00                          | -                               | 46.59              | 2.39                             |  |  |  |
| 18         | Add prior period  |                    |                          |                                |                                 |                    |                                  |  |  |  |
| 19         | Total interest  | 21.59              | -                        | 25.00                          | -                               | 46.59              | 2.39                             |  |  |  |
| 20         | Finance charges   |                    |                          |                                |                                 |                    | 2.66                             |  |  |  |
| 21         | Total Interest and Finance<br>Charges                           | 21.59              | -                        | 25.00                          | -                               | 46.59              | 5.05                             |  |  |  |

# Details of loans for FY 2017-18 (Revised Estimates) (Rs. Crore)

|            | Details of loans for FY 2018-19 (Ensuing Year) (Rs. Crore) |                    |                          |                                |                                 |                    |                                  |  |  |  |
|------------|--|--------------------|--------------------------|--------------------------------|---------------------------------|--------------------|----------------------------------|--|--|--|
| SI.<br>No. | Particulars (source)                                       | Opening<br>balance | Rate of<br>interest<br>* | Addition<br>during<br>the year | Repayment<br>during the<br>year | Closing<br>balance | Amount<br>of<br>Interest<br>paid |  |  |  |
| 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   | 2.99               | 8.22%                    |                                |                                 | 2.99               | 0.25                             |  |  |  |
| 8          | PFC / REC *  | 43.60              | 11.50%                   | -                              |                                 | 43.60              | 5.01                             |  |  |  |
| 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  | -                  | 6.00%                    |                                |                                 | -                  | -                                |  |  |  |
| 13         | Total  | 46.59              |                          | -                              | -                               | 46.59              | 5.26                             |  |  |  |
|            | Add Govt. Ioan   | -                  |                          |                                |                                 |                    |                                  |  |  |  |
| 1.4        | -State Govt.   | -                  |                          |                                |                                 |                    |                                  |  |  |  |
| 14         | -Central Govt.   | -                  |                          |                                |                                 |                    |                                  |  |  |  |
|            | Total  | -                  | -                        | -                              | -                               | -                  | -                                |  |  |  |
| 15         | Total (13+14)  | 46.59              |                          | -                              | -                               | 46.59              | 5.26                             |  |  |  |
| 16         | Less capitalization #                                      |                    |                          |                                |                                 |                    | 0.58                             |  |  |  |
| 17         | Net interest   | 46.59              |                          | -                              | -                               | 46.59              | 4.68                             |  |  |  |
| 18         | Add prior period   |                    |                          |                                |                                 |                    |                                  |  |  |  |
| 19         | Total interest   | 46.59              | -                        | -                              | -                               | 46.59              | 4.68                             |  |  |  |
| 20         | Finance charges  |                    |                          |                                |                                 |                    | 2.80                             |  |  |  |
| 21         | Total Interest and Finance<br>Charges                      | 46.59              | -                        | -                              | -                               | 46.59              | 7.48                             |  |  |  |

#### Details of loans for FY 2018-19 (Ensuing Year) (Rs. Crore)

#### Format 10A – NORMATIVE LOAN & INTEREST CALCULATION

| Sr.<br>No. | Particulars                         | Previous<br>Year<br>(Actuals) | Current Year<br>(Rev. Est) | Ensuing Year<br>(Projection) |
|------------|-------------------------------------|-------------------------------|----------------------------|------------------------------|
|            |                                     | FY 2016-17                    | FY 2017-18                 | FY 2018-19                   |
| 1          | Opening Normative Loan              | 139.56                        | 125.43                     | 144.06                       |
| 2          | Add: Normative Loan during the Year | 10.67                         | 45.15                      | 38.02                        |
| 3          | Less: Normative Repayment           | 24.81                         | 26.51                      | 29.65                        |
| 4          | Closing Normative Loan              | 125.43                        | 144.06                     | 152.43                       |
| 4          | Average Normative Loan              | 132.49                        | 134.74                     | 148.25                       |
| 5          | Rate of Interest (@SBAR rate)       | 14.05%                        | 14.05%                     | 14.05%                       |
| 6          | Interest on Normative Loan          | 18.62                         | 18.93                      | 20.83                        |
| 7          | Other Finance Charges               | 2.54                          | 2.66                       | 2.80                         |
| 8          | Total Interest & Finance Charges    | 21.15                         | 21.59                      | 23.63                        |

#### Format 11 – INFORMATION REGARDING RESTRUCTURING OF OUTSTANDING LOANS DURING THE FY 2016-17 TO FY 2018-19

| Sr.<br>No. | Source of loan | Amount<br>of<br>original<br>Ioan<br>(Rs.<br>Crores) | Old<br>rate of<br>interest | Amount<br>already<br>restructured<br>(Rs. Crores) | Revised<br>rate of<br>interest | Amount<br>now being<br>restructured<br>(Rs. Crores) | New<br>rate of<br>interest |  |  |
|------------|----------------|---|----------------------------|---|--------------------------------|---|----------------------------|--|--|
| 1          |                |   |                            |   |                                |   |                            |  |  |
|            |                | NIL   |                            |   |                                |   |                            |  |  |
|            |                |   |                            |   |                                |   |                            |  |  |
|            |                |   |                            |   |                                |   |                            |  |  |

|            |                                      |                 | Previous Ye                                     | or (Actual)             | Revised E                                 | stimatos                |   |                         |  |
|------------|--------------------------------------|-----------------|---|-------------------------|---|-------------------------|---|-------------------------|--|
|            |                                      |                 | FY 2016-17                                      |                         | Provisi<br>FY 201                         |                         | FY 2018-19                                      |                         |  |
| Sr.<br>No. | Name of the<br>Assets                | Rate of<br>Dep* | Assets value at<br>the beginning of<br>the year | Depreciation<br>charges | Assets value at the beginning of the year | Depreciation<br>charges | Assets value at<br>the beginning of<br>the year | Depreciation<br>charges |  |
| 1          | Land and Land<br>rights              | 0.00%           | 7.35  |                         | 7.35                                      | -                       | 7.35  | -                       |  |
| 2          | Building                             | 3.34%           | 17.37   | 0.55                    | 17.37                                     | 0.55                    | 17.37   | 0.55                    |  |
| 3          | Plant & Machinery                    | 5.28%           | 367.59  | 13.87                   | 379.63                                    | 15.45                   | 439.48  | 18.05                   |  |
| 4          | Lines and Cables<br>Network          | 5.28%           | 233.64  | 8.94                    | 236.85                                    | 9.05                    | 241.19  | 9.55                    |  |
| 5          | Vehicles                             | 9.50%           | 1.89  | 0.02                    | 1.89                                      | 0.02                    | 1.89  | 0.02                    |  |
| 6          | Furniture and<br>Fixtures            | 6.33%           | 0.15  | 0.01                    | 0.15                                      | 0.01                    | 0.15  | 0.01                    |  |
| 7          | Office Equipments                    | 6.33%           | 0.84  | 0.01                    | 0.84                                      | 0.01                    | 0.84  | 0.01                    |  |
| 8          | IT Equipments                        | 15.00%          | 2.00  | 0.03                    | 2.00                                      | 0.03                    | 2.00  | 0.03                    |  |
| 9          | Testing &<br>Measuring<br>Equipments | 5.28%           | 3.31  | 0.07                    | 3.31                                      | 0.08                    | 3.62  | 0.11                    |  |
| 10         | SCADA Centre                         | 6.33%           | 26.77   | 1.31                    | 26.77                                     | 1.31                    | 26.77   | 1.31                    |  |
| 11         | Others                               |                 |   |                         |   |                         |   |                         |  |
|            | Total                                |                 | 660.92  | 24.81                   | 676.16                                    | 26.51                   | 740.66  | 29.65                   |  |

#### Format 12 – VALUE OF ASSETS AND DEPRECIATION CHARGES

| Sr.<br>No | Particulars  | Previous Year<br>(Actuals) | Current Year<br>(Revised) | Ensuing Year<br>(Projections) |  |  |  |
|-----------|--|----------------------------|---------------------------|-------------------------------|--|--|--|
|           |  | FY 2016-17                 | FY 2017-18                | FY 2018-19                    |  |  |  |
| 1         | Plant & machinery                                    | 1.69                       |                           |                               |  |  |  |
| 2         | Building   |                            |                           |                               |  |  |  |
| 3         | Minor R&M works                                      | 7.68                       |                           |                               |  |  |  |
| 4         | Total  | 9.38                       | -                         |                               |  |  |  |
| 5         | Add/Deduct share of others<br>(To be specified)      |                            |                           |                               |  |  |  |
| 6         | Total expenses                                       | 9.38                       | -                         | -                             |  |  |  |
| 7         | Less : Capitalized                                   |                            |                           |                               |  |  |  |
| 8         | Net expenses   | 9.38                       | -                         | -                             |  |  |  |
| 9         | Add: prior period                                    |                            |                           |                               |  |  |  |
| 10        | Total expenses charged to<br>revenue as R&M expenses | 9.38                       | 18.78                     | 20.57                         |  |  |  |

#### Format 13 – REPAIR AND MAINTENANCE EXPENSES

#### Format 14 – NUMBER OF EMPLOYEES

| Sr.<br>No. | Particulars  | Previous<br>Year (Audit) | Previous<br>Year<br>(Provisional) | Current Year<br>(Projections) |
|------------|--|--------------------------|-----------------------------------|-------------------------------|
|            |  | FY 2016-17               | FY 2017-18                        | FY 2018-19                    |
| 1          | Number of employees as on 1st April                      | 2,179                    | 2,265                             | 2,236                         |
| 2          | Employees on deputation/ foreign service as on 1st April |                          |                                   |                               |
| 3          | Total number of employees as on 1st April (1+2)          | 2,179                    | 2,265                             | 2,236                         |
| 4          | Recruitment  | 139                      | 30                                |                               |
| 5          | Number of employees retired/ retiring during the year    | 53                       | 59                                | 63                            |
| 6          | Number of employees at the end of the year (4-5)         | 2,265                    | 2,236                             | 2,173                         |

#### Format 15 – EMPLOYEE COST

| Sr.No | Particulars                      | Previous Year<br>(Audit) | Current Year<br>(Revised) | Ensuing Year<br>(Projections) |
|-------|----------------------------------|--------------------------|---------------------------|-------------------------------|
|       |                                  | FY 2016-17               | FY 2017-18                | FY 2018-19                    |
|       | Salaries& Allowances             |                          |                           |                               |
| 1     | Salary                           | 105.61                   |                           | -                             |
| 2     | Wages                            | 0.65                     |                           | -                             |
| 3     | Stipend                          | 1.50                     |                           | -                             |
| 4     | Transport Allowance              | 0.49                     |                           | -                             |
| 5     | Overtime allowance               | 1.23                     |                           | -                             |
| 6     | Total                            | 109.46                   |                           |                               |
| 7     | Less: Add/Deduct share of others | 0.86                     |                           | -                             |
| 8     | Total                            | 108.60                   | -                         | -                             |
| 9     | Less: Amount capitalized         | 14.92                    |                           | -                             |
| 10    | Net amount                       | 93.69                    | 94.17                     | 97.30                         |
| 11    | Add : prior period expenses      |                          |                           |                               |
| 12    | Total Employee Expenses          | 93.69                    | 94.17                     | 97.30                         |

|            | Format 16 – ADMINISTRATION AND GENERAL EXPENSES                                       |                          |                                   |                               |  |  |  |  |
|------------|---|--------------------------|-----------------------------------|-------------------------------|--|--|--|--|
| Sr.<br>No. | Particulars   | Previous<br>Year (Audit) | Previous<br>Year<br>(Provisional) | Current Year<br>(Projections) |  |  |  |  |
|            |   | FY 2016-17               | FY 2017-18                        | FY 2018-19                    |  |  |  |  |
| 1          | Rent, rates & taxes   | 0.28                     |                                   |                               |  |  |  |  |
| 2          | Other Professional charges including<br>Regulatory Expenses (License + Petition Fees) | 1.54                     |                                   |                               |  |  |  |  |
| 3          | Office Expenses including Legal, Professional & Special Service Charges               | 1.90                     | 5.40                              | 5.62                          |  |  |  |  |
| 4          | Advertisement & Publicity   | 0.19                     |                                   | 5.02                          |  |  |  |  |
| 5          | Other A&G Charges   | 0.18                     |                                   |                               |  |  |  |  |
| 6          | Others  | 0.54                     |                                   |                               |  |  |  |  |
| 7          | Other material related expenses   | 0.06                     |                                   |                               |  |  |  |  |
| 8          | Payment to investor for smart grid project  |                          |                                   | 2.40                          |  |  |  |  |
| 9          | EESL Charges  | 7.61                     | 3.85                              | 5.00                          |  |  |  |  |
| 10         | Total   | 12.30                    | 9.25                              | 13.02                         |  |  |  |  |
| 11         | Add/Deduct share of others (to be specified)  |                          |                                   |                               |  |  |  |  |
| 12         | Total expenses  | 12.30                    | 9.25                              | 13.02                         |  |  |  |  |
| 13         | Less: Capitalized   |                          |                                   |                               |  |  |  |  |
| 14         | Net expenses  | 12.30                    | 9.25                              | 13.02                         |  |  |  |  |
| 15         | Add: Prior period   |                          |                                   |                               |  |  |  |  |
| 16         | Total A&G Expenses charged to revenue   | 12.30                    | 9.25                              | 13.02                         |  |  |  |  |

#### Format 16 – ADMINISTRATION AND GENERAL EXPENSES

#### Format 17 – INFORMATION REGARDING BAD AND DOUBTFUL DEBTS

| Sr.<br>No. | Particulars  | Previous<br>Year<br>(Actuals)<br>FY 2016-17 | Current Year<br>(Revised<br>est)<br>FY 2017-18 | Ensuing<br>Year<br>(Projections)<br>FY 2018-19 |
|------------|--|---|--|--|
| 1          | Amount of receivables (audited)                                      | 778.16                                      | 778.16   | 778.16   |
| 2          | Bad and doubtful debts actually written-off in the books of accounts |   |  |  |
| 3          | Provision made for debts in ARR                                      |   |  |  |
|            |  |   |  |  |

| Sr.<br>No. | Particulars  | Previous Year<br>(Actual) | Current Year<br>(Estimated) | Ensuing Year<br>(Projections) |  |  |  |  |
|------------|--|---------------------------|-----------------------------|-------------------------------|--|--|--|--|
| NO.        |  | FY 2016-17                | FY 2017-18                  | FY 2018-19                    |  |  |  |  |
| 1          | Two Months Receivable  | 206.30                    | 240.59                      | 227.00                        |  |  |  |  |
| 2          | Power Purchase Cost for one month  | 88.86                     | 104.11                      | 94.32                         |  |  |  |  |
| 3          | Total Consumer Security Deposit  | 177.70                    | 193.83                      | 209.96                        |  |  |  |  |
| 4          | Consumer Security Deposit excluding<br>Bank Guarantee/ Fixed Deposit<br>Receipts       | 177.70                    | 193.83                      | 209.96                        |  |  |  |  |
| 5          | Inventory for two months based on<br>Aggregate Revenue Requirement of<br>previous year | 6.78                      | 7.77                        | 7.77                          |  |  |  |  |
| 6          | Total (1-2-4+5)  | (53.49)                   | (49.58)                     | (69.51)                       |  |  |  |  |
| 7          | Interest Rate *  | 9.30%                     | 9.30%                       | 9.30%                         |  |  |  |  |
| 8          | Interest on working capital  | -                         | -                           | -                             |  |  |  |  |

#### Format 18 – INFORMATION REGARDING WORKING CAPITAL

#### Format 18A – INFORMATION ON SECURITY DEPOSIT FROM CONSUMERS

| Sr.<br>No. | Particulars                      | Previous<br>Year<br>(Actuals) | Current Year<br>(Est.) | Ensuing<br>Year (Est.) |
|------------|----------------------------------|-------------------------------|------------------------|------------------------|
|            |                                  | FY 2016-17                    | FY 2017-18             | FY 2018-19             |
| 1          | Opening Security Deposit         | 161.58                        | 177.70                 | 193.83                 |
| 2          | Add: Deposits during the Year    | 16.13                         | 16.13                  | 16.13                  |
| 3          | Less: Deposits refunded          | -                             | -                      |                        |
| 4          | Less: Deposits in form of BG/FDR | -                             |                        |                        |
| 5          | Closing Security Deposit         | 177.70                        | 193.83                 | 209.96                 |
| 6          | Bank Rate                        | 7.75%                         | 6.75%                  | 6.75%                  |
| 7          | Interest on Security Deposit *   | 13.15                         | 12.54                  | 13.63                  |

|            | Format 18B – PROVISIONS OF INTEREST ON SECURITY DEPOSITS FROM CONSUMERS |                       |            |                |            |            |            |                               |                        |            |
|------------|---|-----------------------|------------|----------------|------------|------------|------------|-------------------------------|------------------------|------------|
| Sr.<br>No. | Particulars   | Previous Year (Audit) |            |                |            |            |            | Previous<br>Year<br>(Actuals) | Current<br>Year (Est.) |            |
|            |   | FY 2009-10            | FY 2010-11 | FY 2011-<br>12 | FY 2012-13 | FY 2013-14 | FY 2014-15 | FY 2015-<br>16                | FY 2016-17             | FY 2017-18 |
| 1          | Opening Security Deposit  |                       |            | 64.25          | 73.03      | 95.90      | 123.48     | 144.79                        | 161.58                 | 177.70     |
| 2          | Add: Deposits during the Year   |                       |            | 8.78           | 22.87      | 27.58      | 21.31      | 16.79                         | 16.13                  | 16.13      |
| 3          | Less: Deposits refunded   |                       |            | -              | -          | -          | -          | -                             |                        |            |
| 4          | Less: Deposits in form of BG/FDR  |                       |            | -              | -          |            |            |                               |                        |            |
| 5          | Closing Security Deposit  |                       |            | 73.03          | 95.90      | 123.48     | 144.79     | 161.58                        | 177.70                 | 193.83     |
| 6          | Bank Rate   |                       |            | 6.00%          | 9.50%      | 8.50%      | 8.50%      | 8.50%                         | 7.75%                  | 6.75%      |
| 7          | Interest on Security Deposit *  | 2.99                  | 3.18       | 4.12           | 8.02       | 9.32       | 11.40      | 13.02                         | 13.15                  | 12.54      |
| 8          | Cumulative Security Deposit of Past<br>Years                            | 77.74                 |            |                |            |            |            |                               |                        |            |
| 9          | Security Deposit Paid   |                       |            | -              | -          | -          | 1.97       | 2.88                          | 3.50                   | 3.50       |
| 10         | Balance Security Deposit to be Paid                                     |                       | 65.90      |                |            |            |            |                               |                        |            |

#### Format 18B – PROVISIONS OF INTEREST ON SECURITY DEPOSITS FROM CONSUMERS

## Format 19 – INFORMATION REGARDING FOREIGN EXCHANGE RATE VARIATION (FERV)

| Sr. No. | Particulars                  | Previous Year<br>(Audit)<br>FY 2016-17 | Previous Year<br>(Provisional)<br>FY 2017-18 | Current Year<br>(Estimates)<br>FY 2018-19 |  |
|---------|------------------------------|--|--|---|--|
| 1       | Amount of liability provided | FT 2010-17                             | FT 2017-18                                   | FT 2010-13                                |  |
| 2       | Amount recovered             | NIL                                    |  |   |  |
| 3       | Amount adjusted              |  |  |   |  |

| Sr. No. | Particulars                               | Previous Year<br>(Actuals)<br>FY 2016-17 | Current Year<br>(Estimates)<br>FY 2017-18 | Ensuing Year<br>(Projections)<br>FY 2018-19 |
|---------|---|--|---|---|
| 1       | Meter/service rent                        |  |   |   |
| 2       | Late payment surcharge                    |  |   |   |
| 3       | Open access charges for wheeling of power | 8.47                                     | 4.75                                      |   |
| 5       | Income from trading of Materials          | 0.06                                     | 0.06                                      | 0.06  |
| 8       | Income staff welfare activities           |  |   |   |
| 9       | Misc. Receipts/income                     | 4.44                                     | 4.44                                      | 4.44  |
| 10      | Total income                              | 12.97                                    | 9.26                                      | 4.51  |
| 11      | Add: Prior Period income                  |  |   |   |
| 12      | Total Non-Tariff income                   | 12.97                                    | 9.26                                      | 4.51  |

#### Format 20 – NON-TARIFF INCOME

#### Format 21 – REVENUE FROM SALE OF SURPLUS POWER AND OTHER INCOME

| Sr. No. | Particulars                  | Previous Year<br>(Actuals) | Current Year<br>(Estimates) | Ensuing Year<br>(Projections) |
|---------|------------------------------|----------------------------|-----------------------------|-------------------------------|
|         |                              | FY 2016-17                 | FY 2017-18                  | FY 2018-19                    |
| 1       | UI Sales / Sales to Exchange | 10.32                      | 4.14                        |                               |
| 2       | Income from URS              | 1.99                       | 0.20                        |                               |
| 3       | Income from RRAS             | 0.14                       |                             |                               |
| 4       | Total                        | 12.45                      | 4.34                        | -                             |

#### Format 23 – WHOLESALE PRICE INDEX (ALL COMMODITIES)

| Sr.<br>No. | Period                          | WPI    | Increase over<br>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          | Financial Year 2015-16          | 176.67 | -2.49%                         |
| 7          | Financial Year 2016-17          | 182.93 | 3.54%                          |
| 8          | Average WPI of last three years |        | 2.26%                          |

#### Format 24 – EQUITY AND LOAN

| Sr.<br>No. | Period                       | Amount of<br>equity (Rs.<br>Crore) * | Amount of<br>loan (Rs.<br>Crore) | Ratio of<br>equity &<br>loan |
|------------|------------------------------|--------------------------------------|----------------------------------|------------------------------|
| 1          | As on March 31 of FY 2016-17 | 32.09                                | 132.49                           | 19:81                        |
| 2          | As on March 31 of FY 2017-18 | 34.00                                | 134.74                           | 20:80                        |
| 3          | As on March 31 of FY 2018-19 | 36.86                                | 148.25                           | 20 : 80                      |

| Sr.<br>No. | Item of expense   | Proposed by<br>licensee | Revised by<br>Licensee | Approved by<br>the<br>Commission | Actuals as<br>per<br>Accounts |  |
|------------|---|-------------------------|------------------------|----------------------------------|-------------------------------|--|
| 1          | Cost of power purchase including RPO<br>Provision to meet obligation of the previous<br>years | 1,121.79                | 1,056.81               | 1,122.12                         | 1,066.30                      |  |
| 2          | Employee costs  | 75.13                   | 89.20                  | 85.66                            | 93.69                         |  |
| 3          | Administration and General expenses   | 5.11                    | 33.54                  | 10.02                            | 12.30                         |  |
| 4          | R&M expenses  | 19.41                   | 19.01                  | 18.61                            | 9.38                          |  |
| 5          | Depreciation  | 31.25                   | 29.95                  | 29.95                            | 24.81                         |  |
| 6          | Interest charges (including interest on working capital)                                      | 25.63                   | 23.06                  | 23.06                            | 21.15                         |  |
| 7          | Return on Equity  | 17.01                   | 15.68                  | 33.25                            | 32.09                         |  |
| 8          | Provision for Bad Debt  |                         |                        |                                  | -                             |  |
| 9          | Interest on Consumer Security Deposit Paid  | 13.70                   | 4.00                   | 4.00                             | 3.50                          |  |
| 11         | Total Revenue Requirement   | 1,309.03                | 1,271.25               | 1,326.65                         | 1,263.21                      |  |
| 12         | Less: Non-Tariff Income   | 2.80                    | 8.10                   | 8.10                             | 12.97                         |  |
| 13         | Less: Revenue from sale of surplus power and other income                                     |                         | 5.39                   | 5.39                             | 12.45                         |  |
| 14         | Net Revenue Requirement (11-12-13)  | 1,306.23                | 1,257.76               | 1,313.16                         | 1,237.78                      |  |
| 15         | Revenue from Tariff *   | 1,295.08                | 1,258.05               | 1,230.43                         | 1,192.11                      |  |
| 16         | Revenue Gap (14-15)   | 11.15                   | (0.29)                 | 82.73                            | 45.68                         |  |
| 17         | Energy sales (MU)   | 2,797.07                | 2,566.17               | 2,566.17                         | 2,466.27                      |  |
| 18         | Average Cost of Supply (Rs/kWh)   | 4.67                    | 4.90                   | 5.12                             | 5.02                          |  |

\* Note: Revenue from Tariff includes FPPCA and is net of incentives to consumers

# Format 25 – ANNUAL REVENUE REQUIREMENT FOR FY 2017-18 (REVISED ESTIMATES)

| Sr.<br>No. | Item of expense   | Proposed by<br>licensee | Approved by<br>the<br>Commission | Revised by<br>Licensee |  |
|------------|---|-------------------------|----------------------------------|------------------------|--|
| 1          | Cost of power purchase                                    | 1,182.27                | 1,182.27                         | 1,249.35               |  |
| 2          | Employee costs  | 81.74                   | 81.74                            | 94.17                  |  |
| 3          | Administration and General expenses                       | 5.56                    | 5.56                             | 9.25                   |  |
| 4          | R&M Expenses  | 22.02                   | 22.02                            | 18.78                  |  |
| 5          | Depreciation  | 37.96                   | 37.96                            | 26.51                  |  |
| 6          | Interest charges (including interest on working capital)  | 33.00                   | 33.00                            | 21.59                  |  |
| 7          | Return on Equity  | 21.27                   | 38.51                            | 34.00                  |  |
| 8          | Provision for Bad Debt                                    |                         |                                  |                        |  |
| 9          | Interest on Consumer Security Deposit to be paid          | 15.35                   | 15.35                            | 3.50                   |  |
| 10         | Total Revenue Requirement                                 | 1,399.17                | 1,416.41                         | 1,457.15               |  |
| 11         | Less: Non-Tariff Income                                   | 2.93                    | 2.93                             | 9.26                   |  |
| 12         | Less: Revenue from sale of surplus power and other income |                         |                                  | 4.34                   |  |
| 13         | Net Revenue Requirement (10-11-12)                        | 1,396.24                | 1,413.48                         | 1,443.55               |  |
| 14         | Revenue from Tariff (including surcharge of 4%)*          | 1,504.11                | 1,499.91                         | 1,299.37               |  |
| 15         | Revenue Gap (14-15)                                       | (107.87)                | (86.43)                          | 144.18                 |  |
| 16         | Energy sales (MU)   | 2,980.60                | 2,980.60                         | 2,566.58               |  |
| 17         | Average Cost of Supply (Rs/kWh)                           | 4.68                    | 4.74                             | 5.62                   |  |

\* Note: Revenue from Tariff includes FPPCA and is net of incentives to consumers

# Format 25 – ANNUAL REVENUE REQUIREMENT FOR ENSUING YEAR (FY 2018-

| 1 | 9) |  |
|---|----|--|
| - |    |  |

| Sr.<br>No. | Item of expense   | Approved by<br>JERC | Revised<br>projections<br>by Licensee |
|------------|---|---------------------|---------------------------------------|
|            |   | FY 2018-19          | FY 2018-19                            |
| 1          | Cost of power purchase                                    | 1,249.70            | 1,131.85                              |
| 2          | Employee costs  | 88.94               | 97.30                                 |
| 3          | R&M expenses  | 26.51               | 20.57                                 |
| 4          | Administration and General expenses                       | 6.05                | 13.02                                 |
| 5          | Depreciation  | 45.80               | 29.65                                 |
| 6          | Interest charges (including interest on working capital)  | 41.99               | 23.63                                 |
| 7          | Return on Equity  | 26.46               | 36.86                                 |
| 8          | Provision for Bad Debt                                    |                     |                                       |
| 9          | Interest on Consumer Security Deposit                     | 17.00               | 13.63                                 |
| 10         | Total Revenue Requirement                                 | 1,502.45            | 1,366.49                              |
| 11         | Less: Non-Tariff Income                                   | 3.08                | 4.51                                  |
| 12         | Less: Revenue from sale of surplus power and other income |                     | -                                     |
| 13         | Net Revenue Requirement (10-11-12)                        | 1,499.37            | 1,361.98                              |
| 14         | Revenue from Existing Tariff *                            |                     | 1,339.62                              |
| 15         | Net Gap (13-14)   |                     | 22.36                                 |
| 16         | Energy sales (MU)   | 3,177.04            | 2,649.46                              |
| 17         | Average Cost of Supply (Rs/kWh)                           | 4.72                | 5.14                                  |

## Format 25 B – BRIEF GAP SUMMARY

| Particulars   | Previous Year<br>(Actual)<br>FY 2016-17 | Current Year<br>(Rev Estmates)<br>FY 2017-18 | Ensuing Year<br>(Projections)<br>FY 2018-19 |
|---|---|--|---|
| Net ARR   | 1,237.78                                | 1,443.55                                     | 1,361.98                                    |
| Less: Revenue at Existing Tariffs excluding Surcharge           | 1,192.11                                | 1,299.37                                     | 1,339.62                                    |
| Revenue Gap for the year  | 45.68                                   | 144.18                                       | 22.36                                       |
| Opening Balance of Gap  |   | 45.68  | 189.85                                      |
| Add: Past Gap   |   |  |   |
| Gap for FY 2016-17  | 45.68                                   |  |   |
| Gap for FY 2017-18  |   | 144.18                                       |   |
| Gap for FY 2018-19  |   |  | 22.36                                       |
| Total Cumulative Gap for years                                  | 45.68                                   | 189.85                                       | 212.21                                      |
| Proposed Tar  | iff hike                                | ·  |   |
| Revenue Gap to be recovered                                     | -                                       | -  | 189.85                                      |
| Gap for the Year  | -                                       |  | 22.36                                       |
| Additional Revenue from Proposed Tariff                         |   |  | 128.64                                      |
| Proposed Tariff hike from last year (excluding surcharge of 4%) |   |  | 9.60%                                       |
| Net Gap   | -                                       | -  | 83.57                                       |

| Format 26 – REVENUE AT EXISTING TARIFF | ACTUALS FY 2016-17) |
|--|---------------------|
|  |                     |

|         |   |                    |                      | Contracted                 |                   | Revenu            | e (Rs Crore)  |          |
|---------|---|--------------------|----------------------|----------------------------|-------------------|-------------------|---------------|----------|
| Sr. No. | Category of Consumer                      | No of<br>Consumers | Energy Sale<br>(MUs) | Maximum Demand<br>(KW/kVA) | Demand<br>Charges | Energy<br>Charges | Total Billing | Total    |
| 1       | Domestic & Cottage                        |                    |                      |                            |                   |                   |               |          |
| а       | 0 - 100                                   | 1,25,347           | 265                  | -                          | 6.02              | 29.18             | 35.19         | 35.19    |
| b       | 101 – 200                                 | 68,941             | 218                  | -                          | 3.31              | 38.09             | 41.40         | 41.40    |
| С       | 201 – 300                                 | 56,406             | 119                  | -                          | 2.71              | 41.64             | 44.35         | 44.35    |
| d       | >300                                      | 62,673             | 98                   | -                          | 3.01              | 45.07             | 48.08         | 48.08    |
| е       | ОНОВ                                      | 35,539             | 10                   | -                          | 1.15              | -                 | 1.15          | 1.15     |
| f       | Total                                     | 3,48,906           | 710.03               |                            | 16.19             | 153.97            | 170.16        | 170.16   |
| 2       | Commercial                                |                    |                      |                            |                   |                   |               | -        |
| а       | 0 - 100                                   | 8,334              | 42                   | -                          | 1.00              | 19.83             | 20.83         | 20.83    |
| b       | 101 – 250                                 | 7,813              | 44                   | -                          | 0.94              | 24.80             | 25.74         | 25.74    |
| С       | > 250                                     | 35,940             | 124                  | -                          | 4.31              | 77.78             | 82.09         | 82.09    |
| d       | Total                                     | 52,087             | 210.92               |                            | 6.25              | 122.41            | 128.66        | 128.66   |
| 3       | Agriculture                               |                    |                      |                            |                   |                   |               |          |
| а       | Small farmers                             | 960                | 8                    | 5,439                      | 0.06              | -                 | 0.06          | 0.06     |
| b       | Other farmers                             | 5,940              | 49                   | 54,099                     | 1.89              | -                 | 1.89          | 1.89     |
| С       | Total                                     | 6,900              | 57                   | 59,538                     | 1.95              | -                 | 1.95          | 1.95     |
| 4       | Public lighting                           | 50,250             | 24                   | -                          | 4.52              | 16.36             | 20.88         | 20.88    |
| 5       | LT Industrial & Water Tank                |                    |                      |                            |                   |                   |               |          |
| а       | LT Industrial                             | 6,483              | 153                  | -                          | 0.67              | 78.15             | 78.81         | 78.81    |
| С       | Water tank                                | 133                | 37                   | -                          | 0.02              | 22.09             | 22.11         | 22.11    |
| d       | Total                                     | 6,616              | 190.67               |                            | 0.69              | 100.24            | 100.92        | 100.92   |
| 6       | Temporary supply - LT&HT                  | -                  | 8.00                 | -                          | -                 | 7.80              | 7.80          | 7.80     |
| 7       | Total LT                                  | 4,64,759           | 1,201.13             | 59,538                     | 29.60             | 400.77            | 430.37        | 430.37   |
| 8       | HT 1 Industrial                           |                    |                      |                            |                   |                   |               |          |
| а       | HT I(a) for contract demand upto 5000 kVA | 351                | 870                  | 2,44,929                   | 73.48             | 456.72            | 530.20        | 530.20   |
| b       | HT I(b) for contract demand upto 5000 kVA | 88                 | 74                   | 23,972                     | 7.19              | 38.96             | 46.15         | 46.15    |
| С       | Total                                     | 439                | 944                  | 2,68,901                   | 81                | 496               | 576           | 576      |
| 9       | HT 2 - Government & water tank            | 60                 | 62                   | 21,099                     | 6.33              | 41.87             | 48.20         | 48.20    |
| 10      | HT 3 – EHT                                | 7                  | 259                  | 83,743                     | 22.11             | 132.07            | 154.18        | 154.18   |
| 11      | Total HT                                  | 506                | 1,265                | 3,73,743                   | 109.11            | 669.62            | 779           | 778.72   |
| 12      | Incentives to consumers                   |                    |                      |                            |                   |                   |               | 16.99    |
| 13      | Total                                     | 4,65,265           | 2,466.27             | 4,33,281                   | 138.70            | 1,070.39          | 1,209.09      | 1,192.11 |

|         |   |                    | Energy Sale<br>(MUs) | Contracted                    | Revenue (Rs Crore) |                   |               |                  |          |
|---------|---|--------------------|----------------------|-------------------------------|--------------------|-------------------|---------------|------------------|----------|
| Sr. No. | Category of Consumer                      | No of<br>Consumers |                      | Maximum<br>Demand<br>(KW/kVA) | Demand<br>Charges  | Energy<br>Charges | Total Billing | Surcharge<br>@4% | Total    |
| 1       | Domestic & Cottage                        |                    |                      |                               |                    |                   |               |                  |          |
| А       | 0 - 100                                   | 1,30,338           | 257                  | -                             | 6.26               | 28.25             | 34.51         | 1.38             | 35.89    |
| В       | 101 – 200                                 | 71,686             | 249                  | -                             | 3.44               | 43.66             | 47.10         | 1.88             | 48.99    |
| С       | 201 - 300                                 | 58,652             | 125                  | -                             | 2.82               | 43.66             | 46.48         | 1.86             | 48.34    |
| D       | >300                                      | 65,169             | 103                  | -                             | 3.13               | 47.26             | 50.39         | 2.02             | 52.40    |
| Е       | ОНОВ                                      | 35,537             | 10                   |                               | 1.15               | -                 | 1.15          | 0.05             | 1.20     |
| F       | Total                                     | 3,61,382           | 744.03               |                               | 16.79              | 162.83            | 179.63        | 7.19             | 186.81   |
| 2       | Commercial                                |                    |                      |                               |                    |                   |               |                  | -        |
| А       | 0-100                                     | 8,634              | 45                   | -                             | 1.04               | 20.95             | 21.99         | 0.88             | 22.87    |
| В       | 101 – 250                                 | 8,094              | 47                   | -                             | 0.97               | 26.22             | 27.19         | 1.09             | 28.27    |
| С       | > 250                                     | 37,234             | 132                  | -                             | 4.47               | 82.20             | 86.67         | 3.47             | 90.14    |
| D       | Total                                     | 53,962             | 222.92               |                               | 6.48               | 129.37            | 135.85        | 5.43             | 141.28   |
| 3       | Agriculture                               |                    |                      |                               |                    |                   |               |                  |          |
| А       | Small farmers                             | 960                | 8                    | 5,439                         | 0.06               | -                 | 0.06          | 0.00             | 0.06     |
| В       | Other farmers                             | 5,980              | 49                   | 54,099                        | 1.89               | -                 | 1.89          | 0.08             | 1.96     |
| С       | Total                                     | 6,940              | 57.28                | 44,654                        | 1.95               | -                 | 1.95          | 0.08             | 2.02     |
| 4       | Public lighting                           | 50,434             | 24                   | -                             | 4.54               | 16.36             | 20.90         | 0.84             | 21.73    |
| 5       | LT Industrial and Water Tank              |                    |                      |                               |                    |                   |               |                  |          |
| В       | LT Industrial                             | 6,529              | 159                  | -                             | 0.67               | 81.21             | 81.88         | 3.28             | 85.15    |
| С       | Water tank                                | 139                | 40                   | -                             | 0.02               | 23.86             | 23.88         | 0.96             | 24.83    |
| D       | Total                                     | 6,668              | 199.67               |                               | 0.69               | 105.07            | 105.76        | 4.23             | 109.99   |
| 6       | Temporary supply - LT&HT                  | -                  | 8                    | -                             | -                  | 7.80              | 7.80          | 0.31             | 8.11     |
| 7       | Total LT                                  | 4,79,386           | 1,256.13             | 44,654                        | 30.44              | 421.43            | 451.87        | 18.07            | 469.95   |
| 8       | HT 1 Industrial                           |                    |                      |                               |                    |                   |               |                  |          |
| А       | HT I(a) for contract demand upto 5000 kVA | 361                | 862                  | 2,50,000                      | 75.00              | 452.50            | 527.50        | 21.10            | 548.60   |
| В       | HT I(b) for contract demand upto 5000 kVA | 92                 | 84                   | 26,200                        | 7.86               | 44.27             | 52.13         | 2.09             | 54.22    |
| С       | Total                                     | 453                | 946.24               | 2,76,200                      | 83                 | 497               | 580           | 23               | 603      |
| 9       | HT 2 - Government & water tank            | 61                 | 68                   | 22,380                        | 6.71               | 46.02             | 52.74         | 2.11             | 54.85    |
| 10      | HT 3 – EHT                                | 7                  | 296                  | 87,500                        | 23.10              | 150.97            | 174.07        | 6.96             | 181.03   |
| 11      | Total HT                                  | 521                | 1,310.45             | 3,86,080                      | 112.67             | 693.77            | 806           | 32               | 839      |
| 12      | Incentives to consumers                   |                    |                      |                               |                    |                   |               |                  | 9.28     |
| 13      | Total                                     | 4,79,907           | 2,566.58             | 4,30,734                      | 143.12             | 1,115.20          | 1,258.32      | 50.33            | 1,299.37 |

| Format 26 – REVENUE AT EXISTING TARIFF (ENSUING YEAR FY 2018-19) |   |                 |                      |                            |                   |                   |               |          |  |
|--|---|-----------------|----------------------|----------------------------|-------------------|-------------------|---------------|----------|--|
|  |   |                 | European Calls       | Contracted                 |                   | Reven             | ue (Rs Crore) |          |  |
| Sr. No.  | Category of Consumer                      | No of Consumers | Energy Sale<br>(MUs) | Maximum Demand<br>(KW/kVA) | Demand<br>Charges | Energy<br>Charges | Total Billing | Total    |  |
| 1  | Domestic & Cottage                        |                 |                      |                            |                   |                   |               |          |  |
| А  | 0-100                                     | 1,35,138        | 231.07               | -                          | 6.49              | 25.42             | 31.90         | 31.90    |  |
| В  | 101 – 200                                 | 74,326          | 169.45               | -                          | 3.57              | 29.65             | 33.22         | 33.22    |  |
| С  | 201 – 300                                 | 60,812          | 115.53               | -                          | 2.92              | 40.44             | 43.36         | 43.36    |  |
| D  | >300                                      | 67,569          | 254.18               | -                          | 3.24              | 116.92            | 120.16        | 120.16   |  |
| Е  | ОНОВ                                      | 35,537          | 10.21                | -                          | 1.15              | -                 | 1.15          | 1.15     |  |
| F  | Total                                     | 3,73,382        | 780.44               |                            | 17.37             | 212.43            | 229.80        | 229.80   |  |
| 2  | Commercial                                |                 |                      |                            |                   |                   |               | -        |  |
| А  | 0-100                                     | 8,922           | 35.76                | -                          | 1.07              | 16.81             | 17.88         | 17.88    |  |
| В  | 101 – 250                                 | 8,364           | 33.38                | -                          | 1.00              | 18.69             | 19.70         | 19.70    |  |
| С  | > 250                                     | 38,476          | 169.28               | -                          | 4.62              | 105.80            | 110.41        | 110.41   |  |
| D  | Total                                     | 55,762          | 238.42               |                            | 6.69              | 141.30            | 147.99        | 147.99   |  |
| 3  | Agriculture                               |                 |                      |                            |                   |                   |               |          |  |
| А  | Small farmers                             | 960             | 8.00                 | 5,439                      | 0.06              | -                 | 0.06          | 0.06     |  |
| В  | Other farmers                             | 6,005           | 49.28                | 54,099                     | 1.89              | -                 | 1.89          | 1.89     |  |
| С  | Total                                     | 6,965           | 57.28                | 44,654                     | 1.95              | -                 | 1.95          | 1.95     |  |
| 4  | Public lighting                           | 50,609          | 24.24                | -                          | 4.55              | 16.36             | 20.91         | 20.91    |  |
| 5  | LT Industrial and Water Tank              |                 |                      |                            |                   |                   |               |          |  |
| А  | LT Industrial                             | 6,559           | 162.41               | -                          | 0.68              | 82.83             | 83.51         | 83.51    |  |
| С  | Water tank                                | 149             | 42.50                | -                          | 0.02              | 25.07             | 25.09         | 25.09    |  |
| D  | Total                                     | 6,708           | 204.91               |                            | 0.69              | 107.90            | 108.60        | 108.60   |  |
| 6  | Temporary supply - LT&HT                  | -               | 5.00                 | -                          | -                 | 4.88              | 4.88          | 4.88     |  |
| 7  | Total LT                                  | 4,93,426        | 1,310.28             | 44,654                     | 31.26             | 482.86            | 514.12        | 514.12   |  |
| 8  | HT 1 Industrial                           |                 |                      |                            |                   |                   |               |          |  |
| А  | HT I(a) for contract demand upto 5000 kVA | 371             | 881.70               | 2,55,000                   | 76.50             | 462.89            | 539.39        | 539.39   |  |
| В  | HT I(b) for contract demand upto 5000 kVA | 99              | 89.68                | 31,200                     | 9.36              | 47.08             | 56.44         | 56.44    |  |
| С  | Total                                     | 470             | 971.38               | 2,86,200                   | 86                | 510               | 596           | 596      |  |
| 9  | HT 2 - Government & water tank            | 63              | 71.78                | 22,500                     | 6.75              | 48.45             | 55.20         | 55.20    |  |
| 10   | HT 3 – EHT                                | 7               | 296.02               | 89,000                     | 23.50             | 150.97            | 174.47        | 174.47   |  |
| 11   | Total HT                                  | 540             | 1,339.18             | 3,97,700                   | 116.11            | 709.40            | 826           | 826      |  |
| 12   | Total                                     | 4,93,966        | 2,649.46             | 4,42,354                   | 147.36            | 1,192.26          | 1,339.62      | 1,339.62 |  |

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| Sr. No. | Category of Consumer                      | No of<br>Consumers | Energy Sale/<br>Demand (MUs) | Contracted<br>Maximum<br>Demand<br>(KW/kVA) | Revenue (Rs Crore) |                |          |
|---------|---|--------------------|------------------------------|---|--------------------|----------------|----------|
|         |   |                    |                              |   | Fixed Charges      | Energy Charges | Total    |
| 1       | Domestic & Cottage                        |                    |                              |   |                    |                |          |
| А       | 0-100                                     | 1,35,138           | 231.07                       | -   | 6.49               | 32.35          | 38.84    |
| В       | 101 – 200                                 | 74,326             | 169.45                       | -   | 3.57               | 35.58          | 39.15    |
| С       | 201 – 300                                 | 60,812             | 115.53                       | -   | 2.92               | 45.06          | 47.98    |
| D       | >300                                      | 67,569             | 254.18                       | -   | 3.24               | 128.36         | 131.60   |
| E       | ОНОВ                                      | 35,537             | 10.21                        | -   | 1.15               | -              | 1.15     |
| F       | Total                                     | 3,73,382           | 780.44                       | -   | 17.37              | 241.35         | 258.72   |
| 2       | Commercial                                |                    |                              |   |                    |                |          |
| А       | 0 - 100                                   | 8,922              | 35.76                        | -   | 1.07               | 18.95          | 20.02    |
| В       | 101 – 250                                 | 8,364              | 33.38                        | -   | 1.00               | 20.69          | 21.70    |
| С       | > 250                                     | 38,476             | 169.28                       | -   | 4.62               | 115.95         | 120.57   |
| D       | Total                                     | 55,762             | 238.42                       | -   | 6.69               | 155.60         | 162.29   |
| 3       | Agriculture                               |                    |                              |   |                    |                |          |
| А       | Small farmers                             | 960                | 8.00                         | 5,439                                       | 0.06               | -              | 0.06     |
| В       | Other farmers                             | 6,005              | 49.28                        | 54,099                                      | 1.89               | -              | 1.89     |
| С       | Total                                     | 6,965              | 57.28                        | 59,538                                      | 1.95               | -              | 1.95     |
| 4       | Public lighting                           | 50,609             | 24.24                        | -   | 4.55               | 17.57          | 22.13    |
| 5       | LT Industrial and Water Tank              |                    |                              |   |                    |                |          |
| А       | LT Industrial                             | 6,559              | 162.41                       | -   | 0.68               | 90.95          | 91.63    |
| С       | Water tank                                | 149                | 42.50                        | -   | 0.02               | 27.20          | 27.22    |
| D       | Total                                     | 6,708              | 204.91                       | -   | 0.69               | 118.15         | 118.84   |
| 6       | Temporary supply - LT&HT                  | -                  | 5.00                         | -   | -                  | 5.18           | 5.18     |
| 7       | Total LT                                  | 4,93,426           | 1,310.28                     | 59,538                                      | 31.26              | 537.85         | 569.10   |
| 8       | HT 1 Industrial                           |                    |                              |   |                    |                |          |
| А       | HT I(a) for contract demand upto 5000 kVA | 371                | 881.70                       | 2,55,000                                    | 76.50              | 511.39         | 587.89   |
| В       | HT I(b) for contract demand upto 5000 kVA | 99                 | 89.68                        | 31,200                                      | 9.36               | 52.01          | 61.37    |
| С       | Total                                     | 470                | 971.38                       | 2,86,200                                    | 85.86              | 563.40         | 649.26   |
| 9       | HT 2 - Government & water tank            | 63                 | 71.78                        | 22,500                                      | 6.75               | 52.40          | 59.15    |
| 10      | HT 3 – EHT                                | 7                  | 296.02                       | 89,000                                      | 23.50              | 167.25         | 190.75   |
| 11      | Total HT                                  | 540                | 1,339.18                     | 3,97,700                                    | 116.11             | 783.05         | 899.16   |
| 12      | Total                                     | 4,93,966           | 2,649.46                     | 4,57,238                                    | 147.36             | 1,320.90       | 1,468.26 |

#### Format 27 – REVENUE AT PROPOSED TARIFF (ENSUING YEAR FY 2018-19)

### Annexure II: UN-AUDITED ACCOUNTS OF FY 2016-17

| PUDUCHERRY ELECTRICITY DEPARTMENT                                |                 |                  |                  |  |  |  |
|--|-----------------|------------------|------------------|--|--|--|
| BALANCE SHEET AS ON 31st March, 2017 (UNAUDITED)                 |                 |                  |                  |  |  |  |
| PARTICULARS  | SCHEDULE<br>No. | As at 31.03.2017 | As at 31.03.2016 |  |  |  |
| SOURCES OF FUNDS   |                 |                  |                  |  |  |  |
| (1) Owner's Funds  |                 |                  |                  |  |  |  |
| Government Fund  |                 | 13,15,00,18,261  | 11,52,85,09,169  |  |  |  |
| (2) Loan Funds   |                 |                  |                  |  |  |  |
| Secured Loans  | 1               | 2,99,16,771      | 4,66,16,903      |  |  |  |
| Unsecured Loan from PFC for Part A of R-<br>APDRP [Refer Note 5] |                 | 186,000,000      | 18,60,00,000     |  |  |  |
| Unsecured Loan from PFC for Part B of R-<br>APDRP [Refer Note 5] |                 | 16,50,00,000     |                  |  |  |  |
| Loan from DDUGJY [Refer Note 6]                                  |                 | 1,20,31,308      |                  |  |  |  |
| Loan from SMARTGRID [Refer Note 7]                               |                 | 4,44,00,000      |                  |  |  |  |
| TOTAL  |                 | 13,58,73,66,341  | 11,76,11,26,072  |  |  |  |
| APPLICATION OF FUNDS   |                 |                  |                  |  |  |  |
| (1) Fixed Assets   |                 |                  |                  |  |  |  |
| (a) Gross Block  | 2               | 6,76,16,36,243   | 6,60,91,51,965   |  |  |  |
| (b) Less : Accumulated Depreciation                              |                 | 3,53,27,24,223   | 3,28,46,45,426   |  |  |  |
| (c) Net Block  | _               | 3,22,89,12,020   | 3,32,45,06,538   |  |  |  |
| (d) Capital Work in Progress                                     |                 | 1,00,07,03,155   | 78,51,24,402     |  |  |  |
| (e) Capital Advances   |                 | 25,50,00,000     |                  |  |  |  |
| (2) Current Assets Loans & Advances                              |                 |                  |                  |  |  |  |
| (a) Inventories  |                 | 46,60,75,966     | 40,66,69,095     |  |  |  |
| (b) Sundry Debtors   | 3               | 7,78,27,68,489   | 6,78,32,06,366   |  |  |  |
| (c) Cash and Bank Balances                                       | 4               | 42,21,19,794     | 28,33,08,435     |  |  |  |
| (d) Loans and Advances   | 5               | 15,12,88,063     | 15,21,80,417     |  |  |  |
| Less: Current Liabilities and Provisions                         | 6               | 8,82,22,52,313   |                  |  |  |  |
| Less. Current Liabilities and Provisions                         | 0               | 4,14,12,38,783   | 4,31,33,05,569   |  |  |  |
| NET CURRENT ASSETS   | -               | 4,68,10,13,530   | 3,31,20,58,745   |  |  |  |
| Profit & Loss Account  |                 | 4,42,17,37,636   | 4,33,94,36,386   |  |  |  |
| TOTAL  |                 | 13,58,73,66,341  | 11,76,11,26,072  |  |  |  |
| Significant Accounting Policies and Notes to<br>Accounts         | 13              |                  |                  |  |  |  |

| PUDUCHERRY E  | LECTRICI   | TY DEPARTMENT                   |                                |  |  |  |
|---|------------|---------------------------------|--------------------------------|--|--|--|
| PROFIT AND LOSS ACCOUNT FOR THE PERIOD ENDED 31st March 2017 (UNAUDITED)  |            |                                 |                                |  |  |  |
| PARTICULARS   | SCH<br>No. | Year Ended                      | Year Ended                     |  |  |  |
| ΙΝΟΟΜΕ  |            | 31st March, 2017                | 31st March, 2016               |  |  |  |
| Revenue from Sale of Power [Refer Note 13]<br>Revenue from other services related to sale of  | 7<br>8     | 11,92,16,94,172<br>20,91,80,607 | 11,14,57,72,143<br>1,77,31,794 |  |  |  |
| power [Refer Note 14]<br>Other Income   | 9          | 4,50,76,356                     | 4,26,39,146                    |  |  |  |
|   | _          | 12,17,59,51,135                 | 11,20,61,43,083                |  |  |  |
| <b>E X P E N D I T U R E</b><br>Purchase of Power<br>[Includes an amount of Rs. 9.76 Crores for power<br>purchased prior to 2016-17 but invoices received |            | 10,66,30,11,487                 | 9,67,59,70,527                 |  |  |  |
| in 2016-17 explained in Notes (3) (b)]<br>Employee Costs  | 10         | 93,19,99,914                    | 77,66,29,473                   |  |  |  |
| Operations & Maintenance Expenses   |            | 9,37,84,429                     | 9,61,79,571                    |  |  |  |
| Administration and General Expenses<br>Other Expenses   | 11         | 12,72,52,358<br>5,71,091        | 10,91,11,195<br>16,33,569      |  |  |  |
| Depreciation<br>Interest and Finance Charges  | 12         | 24,80,78,797<br>19,35,54,309    | 27,91,17,382<br>17,88,25,158   |  |  |  |
| TOTAL EXPENDITURE   |            | 12,25,82,52,385                 | 11,11,74,66,875                |  |  |  |
| Net Profit / (Loss) before prior period adjustments<br>Net Prior Period Credits / (Charges)   |            | (8,23,01,250)                   | 8,86,76,208                    |  |  |  |
| Profit / (Loss) before Extraordinary Items  |            | (8,23,01,250)                   | 8,86,76,208                    |  |  |  |
| Less : Extraordinary Items  | _          | -                               | -                              |  |  |  |
| Profit / (Loss) before Tax  | _          | (8,23,01,250)                   | 8,86,76,208                    |  |  |  |
| Less : Provision for Tax<br>Profit / (Loss) After Tax   | -          | - (8,23,01,250)                 | - 8,86,76,208                  |  |  |  |
| Profit / (Loss) brought forward from previous year  |            | (4,33,94,36,386)                | (4,42,81,12,595)               |  |  |  |
| Balance carried to Balance Sheet  |            | (4,42,17,37,636)                | (4,33,94,36,386)               |  |  |  |

| PUDUCHERRY ELECTRICITY DEPA  | RTMENT         |                  |  |  |  |
|--|----------------|------------------|--|--|--|
| CASH FLOW STATEMENT FOR THE PERIOD ENDED 31st March 2017 (UNAUDITED) |                |                  |  |  |  |
| Particulars  | 2016-17        | 2015-16          |  |  |  |
| A. Cash flow from operating activities                               |                |                  |  |  |  |
| Net profit / (loss) before tax                                       | (8,23,01,250)  | 8,86,76,208      |  |  |  |
| Adjustment for :   |                |                  |  |  |  |
| Depreciation   | 24,80,78,797   | 27,91,17,382     |  |  |  |
| Interest Income  | (1,55,04,023)  | (1,73,13,725)    |  |  |  |
| Interest Expenses / Financial Charges                                | 16,81,92,003   | 15,56,37,720     |  |  |  |
| Prior period adjustment  |                |                  |  |  |  |
| Operating profit / (loss) before working capital changes             | 31,84,65,527   | 54,07,45,035     |  |  |  |
| Changes in Working Capital   |                |                  |  |  |  |
| (Increase) / Decrease in Inventories                                 | (5,94,06,871)  | 12,84,85,809     |  |  |  |
| (Increase) / Decrease in Debtors                                     | (99,95,62,124) | (1,26,32,54,025) |  |  |  |
| (Increase) / Decrease in Loans & Advances                            | 8,92,354       | 21,75,978        |  |  |  |
| Increase / (Decrease) in Trade Payables & Provisions                 | (17,20,66,786) | 59,47,177        |  |  |  |
| Cash generated from operations                                       | (91,16,77,900) | (58,59,00,026)   |  |  |  |
| Less: Direct taxes paid  |                |                  |  |  |  |
| - Income Tax   | -              | -                |  |  |  |
| - Fringe Benefit Tax   | -              | -                |  |  |  |
| - Wealth Tax   | -              | -                |  |  |  |
| Net cash from operating activities                                   | (91,16,77,900) | (58,59,00,026)   |  |  |  |
| B. Cash flow from investing activities                               |                |                  |  |  |  |
| (Increase) / Decrease in Fixed Assets                                | (15,24,84,278) | (26,93,50,962)   |  |  |  |
| (Increase) / Decrease in Capital WIP                                 | (47,05,78,752) | (12,61,38,005)   |  |  |  |
| Interest received  | 1,55,04,023    | (1,73,13,725)    |  |  |  |
| Net cash from investing activities                                   | (60,75,59,007) | (41,28,02,692)   |  |  |  |
| C. Cash flow from financing activities                               |                |                  |  |  |  |
| Increase in Government Fund  | 1,62,15,09,093 | 1,19,47,26,331   |  |  |  |
| Increase in Long term loan from PFC                                  | -              | -                |  |  |  |
| Increase in New Long term loan from PFC                              | 16,50,00,000   | -                |  |  |  |
| Increase in Long term loan from DDUGJY                               | 1,20,31,308    | -                |  |  |  |
| Increase in Long term loan from SMARTGRID                            | 4,44,00,000    | -                |  |  |  |
| Repayment of finance lease   | (1,67,00,132)  | (1,61,62,526)    |  |  |  |
| Interest and Finance Charges   | (16,81,92,003) | (15,56,37,720)   |  |  |  |
| Net cash flow from financing activities                              | 1,65,80,48,266 | 1,02,29,26,085   |  |  |  |
| Net increase/(decrease) in cash and cash equivalents (A+B+C)         | 13,88,11,359   | 2,42,23,367      |  |  |  |
| Opening Balance of Cash and Cash Equivalents                         | 28,33,08,435   | 25,90,85,068     |  |  |  |
| Closing Balance of Cash and Cash Equivalents                         | 42,21,19,794   | 28,33,08,435     |  |  |  |

#### SCHEDULES FORMING PART OF THE FINANCIAL STATEMENTS FOR FY 2016-17

| SCHEDULE – 1<br>SECURED LOANS |  |                  |                  |  |  |  |  |
|-------------------------------|--|------------------|------------------|--|--|--|--|
| S.No.                         | Particulars  | As at 31.03.2017 | As at 31.03.2016 |  |  |  |  |
| 1                             | Finance Lease Liability [Refer Note 4]<br>(The lease is relating to the System Control Centre) | 2,99,16,771      | 4,66,16,903      |  |  |  |  |
|                               | TOTAL  | 2,99,16,771      | 4,66,16,903      |  |  |  |  |

|       | SCHEDULE – 3   |                  |                  |  |  |  |  |  |  |
|-------|--|------------------|------------------|--|--|--|--|--|--|
|       | SUNDRY DEBTORS   |                  |                  |  |  |  |  |  |  |
| S.No. | Particulars  | As at 31.03.2017 | As at 31.03.2016 |  |  |  |  |  |  |
| 1     | Sundry Debtors for Sale of Power                       | 7,02,99,54,889   | 6,01,92,33,239   |  |  |  |  |  |  |
| 2     | UI Charges receivable                                  | -                | -                |  |  |  |  |  |  |
| 3     | Receivable from Other Department for Sale of materials | 12,13,193        | 12,61,777        |  |  |  |  |  |  |
| 4     | Unbilled Debtors                                       | 75,16,00,407     | 76,27,11,350     |  |  |  |  |  |  |
|       | TOTAL  | 7,78,27,68,489   | 6,78,32,06,366   |  |  |  |  |  |  |

|       | SC                           | HEDULE - 4       |                  |
|-------|------------------------------|------------------|------------------|
|       | CASH &                       | BANK BALANCES    |                  |
| S.No. | Particulars                  | As at 31.03.2017 | As at 31.03.2016 |
| 1     | Cash in hand                 | 5,126            | 10,33,329        |
| 2     | Cheques in hand              | -                | 85,35,035        |
| 3     | Margin money with Bank       | 13,16,60,593     | 12,17,62,605     |
| 4     | Balance with SBI (RAPDRP)    | 23,36,37,496     | 15,19,77,466     |
| 5     | Balance with SBI (DDUGJY)    | 1,20,31,308      | -                |
| 6     | Balance with SBI (SMARTGRID) | 4,43,99,368      | -                |
| 7     | TDS Receivable               | 3,85,904         | -                |
|       | TOTAL                        | 42,21,19,794     | 28,33,08,435     |

|       | SCHEDULE - 5<br>LOANS & ADVANCES |                  |                  |  |  |  |  |
|-------|----------------------------------|------------------|------------------|--|--|--|--|
| S.No. | Particulars                      | As at 31.03.2017 | As at 31.03.2016 |  |  |  |  |
| 1     | Other Income receivable          | 46,757           | 46,757           |  |  |  |  |
| 2     | Lease advances                   | 15,76,828        | 16,92,949        |  |  |  |  |
| 3     | Advances to Creditors            | 1,97,34,499      | 2,05,10,732      |  |  |  |  |
| 4     | Tariff Subsidy receivable        | 12,99,29,979     | 12,99,29,979     |  |  |  |  |
|       | TOTAL                            | 15,12,88,063     | 15,21,80,417     |  |  |  |  |

|       | SCHEDULE - 6<br>CURRENT LIABILITIES & PROVISIONS                    |                  |                  |  |  |  |  |  |  |
|-------|---|------------------|------------------|--|--|--|--|--|--|
| S.No. | Particulars   | As at 31.03.2017 | As at 31.03.2016 |  |  |  |  |  |  |
| 1     | Consumer Deposits<br>[Refer Note 9 of Part B of Notes to Accounts]  | 1,77,70,28,813   | 1,61,57,59,038   |  |  |  |  |  |  |
| 2     | Consumer Contribution for Deposit Works                             | 27,42,61,936     | 22,49,45,401     |  |  |  |  |  |  |
| 3     | Sundry Creditors for power purchase                                 | 35,41,33,828     | 96,91,20,839     |  |  |  |  |  |  |
| 4     | Interest Payable on Finance Lease                                   | 63,74,28,081     | 50,70,67,638     |  |  |  |  |  |  |
| 5     | Other Liabilities   | -                | -                |  |  |  |  |  |  |
| 6     | Vendor/Contractor Deposits  | 1,83,20,629      | 1,76,20,740      |  |  |  |  |  |  |
| 7     | Provision for Power Purchase  | 95,21,94,657     | 83,91,61,793     |  |  |  |  |  |  |
| 8     | Provision for Other Expenses  | 9,14,31,581      | 10,06,45,602     |  |  |  |  |  |  |
| 9     | Sales Tax Payable<br>[Refer Note 10 of Part B of Notes to Accounts] | 2,19,54,060      | 1,98,57,080      |  |  |  |  |  |  |
| 10    | UI Charges Payable  | 1,44,85,198      | 1,91,27,437      |  |  |  |  |  |  |
|       | TOTAL   | 4,14,12,38,783   | 4,31,33,05,569   |  |  |  |  |  |  |

|       | SCHEDULE - 7   |                               |                               |  |  |  |  |  |  |  |
|-------|--|-------------------------------|-------------------------------|--|--|--|--|--|--|--|
|       | REVENUE FROM SAI                                     | LE OF POWER                   |                               |  |  |  |  |  |  |  |
| S.No. | Particulars  | Year ended<br>31st March 2017 | Year ended<br>31st March 2016 |  |  |  |  |  |  |  |
| 1     | LT Consumers   | 4,07,89,70,510                | 3,80,34,52,619                |  |  |  |  |  |  |  |
| 2     | HT Consumers   | 7,79,54,32,760                | 6,86,36,46,010                |  |  |  |  |  |  |  |
| 3     | Street light charges                                 | 20,88,18,000                  | 17,28,35,640                  |  |  |  |  |  |  |  |
| 4     | Agriculture  | 1,94,51,990                   | 1,49,12,930                   |  |  |  |  |  |  |  |
| 5     | Tariff Subsidy on Sale of Power                      | -                             | 2,96,00,000                   |  |  |  |  |  |  |  |
| 6     | Surcharge  | -                             | 28,65,67,920                  |  |  |  |  |  |  |  |
| 7     | FPPCA charges  | -                             | 13,37,12,137                  |  |  |  |  |  |  |  |
| 8     | Less: Incentives to consumers (net of Penal charges) | 16,98,68,146                  | 15,67,85,000                  |  |  |  |  |  |  |  |
|       | -  | 11,93,28,05,114               | 11,14,79,42,256               |  |  |  |  |  |  |  |
| Add   | Un-billed revenue as at the end of the year          | 75,16,00,407                  | 76,27,11,350                  |  |  |  |  |  |  |  |
| Less  | Un-billed revenue as at the beginning of the year    | 76,27,11,350                  | 76,48,81,462                  |  |  |  |  |  |  |  |
|       | Revenue from Sale of Power                           | 11,92,16,94,172               | 11,14,57,72,143               |  |  |  |  |  |  |  |
|       | -  | 11,92,16,94,172               | 11,14,57,72,143               |  |  |  |  |  |  |  |

|       |                           | SCHEDULE – 8                     |                                |
|-------|---------------------------|----------------------------------|--------------------------------|
|       | <b>REVENUE FROM OTHER</b> | SERVICES RELATED TO SALE OF POWE | R                              |
| S.No. | Particulars               | Year ended 31st March,<br>2017   | Year ended 31st March,<br>2016 |
| 1     | Open Access Income        | 8,46,65,140                      | -                              |
| 2     | URS Income                | 1,99,00,000                      |                                |
| 3     | UI Charges                | 10,32,09,271                     | 1,77,31,794                    |
| 4     | RARS Charges              | 14,06,196                        |                                |
|       | TOTAL                     | 20,91,80,607                     | 1,77,31,794                    |

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| SCHEDULE – 9                                      |   |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|
| OTHER INC   | OME   |  |  |  |  |  |  |  |
| Particulars                                       | Year ended 31st March,<br>2017  | Year ended 31st March<br>2016  |  |  |  |  |  |  |
| Sale of Trading Materials                         | 6,43,905  | 18,41,849  |  |  |  |  |  |  |
| Interest Income on Margin Money Deposit with Bank | 1,55,04,023   | 1,73,13,725  |  |  |  |  |  |  |
| Other receipts                                    | 2,89,28,428   | 2,34,83,572  |  |  |  |  |  |  |
| TOTAL   | 4,50,76,356   | 4,26,39,146  |  |  |  |  |  |  |
|   | Particulars<br>Sale of Trading Materials<br>Interest Income on Margin Money Deposit with Bank<br>Other receipts | 2017         Sale of Trading Materials       6,43,905         Interest Income on Margin Money Deposit with Bank       1,55,04,023         Other receipts       2,89,28,428 |  |  |  |  |  |  |

|       |  | IEDULE - 10<br>LOYEE COSTS  |                             |
|-------|--|-----------------------------|-----------------------------|
| S.No. | Particulars                              | Year ended 31st March, 2017 | Year ended 31st March, 2016 |
| 1     | Salary                                   | 1,05,60,64,700              | 90,91,46,879                |
| 2     | Wages                                    | 64,68,070                   | 63,60,000                   |
| 3     | Stipend                                  | 1,49,77,000                 | 46,38,000                   |
| 4     | Overtime Payment                         | 1,22,55,800                 | 1,75,67,420                 |
|       |  | 1,08,97,65,570              | 93,77,12,299                |
| Less  | Departmental Charges                     | 85,74,956                   | 1,85,11,529                 |
| Less  | Salary Costs Capitalized [Refer Note 15] | 14,91,90,700                | 14,25,71,297                |
|       | TOTAL                                    | 93,19,99,914                | 77,66,29,473                |

|       | SCHEDULE – 11<br>ADMINISTRATION & GENERAL EXPENSES |                             |                             |  |  |  |  |  |  |
|-------|--|-----------------------------|-----------------------------|--|--|--|--|--|--|
|       |  |                             |                             |  |  |  |  |  |  |
| S.No. | Particulars  | Year ended 31st March, 2017 | Year ended 31st March, 2016 |  |  |  |  |  |  |
| 1     | Office Expenses                                    | 1,90,04,831                 | 1,20,19,397                 |  |  |  |  |  |  |
| 2     | Other Miscellaneous Expenses                       | 3,20,98,646                 | 5,00,21,568                 |  |  |  |  |  |  |
| 3     | EESL charges                                       | 7,61,48,881                 | 4,70,70,230                 |  |  |  |  |  |  |
|       | TOTAL  | 12,72,52,358                | 10,91,11,195                |  |  |  |  |  |  |

|       | SCHEDULE – 12<br>INTEREST AND FINANCE CHARGES                      |                                |                                |  |  |  |  |
|-------|--|--------------------------------|--------------------------------|--|--|--|--|
| S.No. | Particulars  | Year ended<br>31st March, 2017 | Year ended<br>31st March, 2016 |  |  |  |  |
| 1     | Interest Charges<br>[Refer Note 16 of Part B of Notes to Accounts] | 16,81,92,003                   | 15,56,37,720                   |  |  |  |  |
| 2     | Bank Charges   | 2,53,62,307                    | 2,31,87,438                    |  |  |  |  |
|       | TOTAL  | 19,35,54,309                   | 17,88,25,158                   |  |  |  |  |

|                        |                               |                                      | Am                             | ounts in Rs.                   | Lakhs                              |                                |                                      | Am                                    | ounts in Rs                                       | . Lakhs                      |                               |                                 | Amounts i  | n Rs. Lakhs   |
|------------------------|-------------------------------|--------------------------------------|--------------------------------|--------------------------------|------------------------------------|--------------------------------|--------------------------------------|---------------------------------------|---|------------------------------|-------------------------------|---------------------------------|--|---|
|                        |                               |                                      | -                              | Gross block                    | (                                  |                                |                                      |                                       | Depreciat   | ion                          |                               |                                 | Net  | block   |
| Assets group<br>number | Assets group<br>description   | Opening<br>balance as on<br>1-4-2016 | Adjustment of<br>Previous Year | Additions during<br>the period | Deductions<br>during the<br>period | Cost at the end<br>of the year | Opening<br>balance as on<br>1-4-2016 | Depreciation on<br>Opening<br>Balance | Depreciation on<br>additions during<br>the period | Depreciation for<br>the year | Depreciation On<br>Deductions | Total at the end<br>of the year | At the end of<br>current year –<br>as on 31-3-2017 | At the end of<br>previous year -<br>as on 31-3-2016 |
| 1                      | Land and land rights          |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | Sub Stations                  | 699.80                               |                                |                                |                                    | 699.80                         | -                                    | -                                     | -   | -                            | -                             | -                               | 699.80   | 699.80  |
|                        | Other                         | 35.00                                |                                |                                |                                    | 35.00                          | -                                    | -                                     | -   | -                            | -                             | -                               | 35.00  | 35.00   |
| 2                      | Buildings                     |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
| Z                      | Buildings                     |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | Sub Stations                  | 1,236.62                             |                                |                                |                                    | 1,236.62                       | 487.27                               | 39.30                                 |   | 39.30                        | -                             | 526.57                          | 710.05   | 749.35  |
|                        | Other                         | 500.74                               |                                |                                |                                    | 500.74                         | 255.99                               | 15.53                                 |   | 15.53                        | -                             | 271.53                          | 229.21   | 244.74  |
| 3                      | Plant and machinery           |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | Transmission - Sub Stations   | 20,859.70                            |                                |                                |                                    | 20,859.70                      | 10,694.43                            | 808.20                                |   | 808.20                       | -                             | 11,502.63                       | 9,357.07   | 10,165.27   |
|                        | Distribution - Transformers   | 15,899.00                            |                                | 1,204.34                       |                                    | 17,103.35                      | 6,900.66                             | 514.85                                | 63.59   | 578.44                       | -                             | 7,479.10                        | 9,624.24   | 8,998.34  |
|                        |                               |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
| 4                      | Lines and cable network       |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | Transmission - EHT & HT Lines | 14176.95                             |                                | 320.50                         |                                    | 14,497.45                      | 6436.60                              | 547.27                                | 16.92   | 564.19                       |                               | 7,000.79                        | 7,496.66   | 7740.35   |

### SCHEDULE 2 - FIXED ASSETS SCHEDULE FOR FY 2016-17

|                        |  |                                      | Am                             | ounts in Rs.                   | Lakhs                              |                                |                                      | Am                                    | ounts in R  | . Lakhs                      |                               |                                 | Amounts i  | n Rs. Lakhs   |
|------------------------|--|--------------------------------------|--------------------------------|--------------------------------|------------------------------------|--------------------------------|--------------------------------------|---------------------------------------|---|------------------------------|-------------------------------|---------------------------------|--|---|
|                        |  |                                      |                                | Gross block                    | (                                  |                                |                                      |                                       | Depreciat   | ion                          |                               |                                 | Net  | block   |
| Assets group<br>number | Assets group<br>description  | Opening<br>balance as on<br>1-4-2016 | Adjustment of<br>Previous Year | Additions during<br>the period | Deductions<br>during the<br>period | Cost at the end<br>of the year | Opening<br>balance as on<br>1-4-2016 | Depreciation on<br>Opening<br>Balance | Depreciation on<br>additions during<br>the period | Depreciation for<br>the year | Depreciation On<br>Deductions | Total at the end<br>of the year | At the end of<br>current year –<br>as on 31-3-2017 | At the end of<br>previous year -<br>as on 31-3-2016 |
|                        | Distribution - LT Lines  | 9187.38                              |                                | -                              |                                    | 9,187.38                       | 5554.41                              | 329.84                                |   | 329.84                       |                               | 5,884.25                        | 3,303.14   | 3632.98   |
| 5                      | Vehicles   |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | Sub Station and Others   | 188.94                               | -                              |                                |                                    | 188.94                         | 167.72                               | 2.11                                  |   | 2.11                         | -                             | 169.83                          | 19.11  | 21.22   |
| 6                      | Furniture and fixtures   |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
| 6                      | Furniture and fixtures   |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | Sub Station and Others   | 15.18                                |                                |                                |                                    | 15.18                          | 8.72                                 | 0.53                                  |   | 0.53                         | -                             | 9.25                            | 5.93   | 6.46  |
| 7                      | Office equipment (Office equipment,<br>telephones & Telephone lines, Radio and |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | high frequency carrier system (VHF)) Sub Station and Others                    | 84.15                                |                                |                                |                                    | 84.15                          | 69.65                                | 1.41                                  |   | 1.41                         | -                             | 71.06                           | 13.09  | 14.50   |
|                        |  |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
| 8                      | IT equipment (Computers etc.)  |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | Sub Station and Others   | 199.80                               |                                |                                |                                    | 199.80                         | 164.96                               | 3.47                                  |   | 3.47                         | -                             | 168.43                          | 31.37  | 34.84   |
|                        |  |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |

#### Annual Accounts for FY 2016 - 2017

|                        |                               |                                      | Amounts in Rs. Lakhs           |                                |                                    | Amounts in Rs. Lakhs           |                                      |                                       |   |                              | Amounts in Rs. Lakhs          |                                 |  |   |
|------------------------|-------------------------------|--------------------------------------|--------------------------------|--------------------------------|------------------------------------|--------------------------------|--------------------------------------|---------------------------------------|---|------------------------------|-------------------------------|---------------------------------|--|---|
|                        |                               |                                      | Gross block                    |                                |                                    | Depreciation                   |                                      |                                       |   | Net block                    |                               |                                 |  |   |
| Assets group<br>number | Assets group<br>description   | Opening<br>balance as on<br>1-4-2016 | Adjustment of<br>Previous Year | Additions during<br>the period | Deductions<br>during the<br>period | Cost at the end<br>of the year | Opening<br>balance as on<br>1-4-2016 | Depreciation on<br>Opening<br>Balance | Depreciation on<br>additions during<br>the period | Depreciation for<br>the year | Depreciation On<br>Deductions | Total at the end<br>of the year | At the end of<br>current year –<br>as on 31-3-2017 | At the end of<br>previous year -<br>as on 31-3-2016 |
| 9                      | Testing & Measuring Equipment |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | Sub Station and Others        | 331.49                               |                                |                                |                                    | 331.49                         | 251.99                               | 6.91                                  |   | 6.91                         | -                             | 258.90                          | 72.59  | 79.50   |
|                        |                               |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
| 10                     | SCADA Centre                  |                                      |                                |                                |                                    |                                |                                      |                                       |   |                              |                               |                                 |  |   |
|                        | Sub Station and Others        | 2,676.78                             |                                |                                |                                    | 2,676.78                       | 1,854.07                             | 130.85                                |   | 130.85                       | -                             | 1,984.92                        | 691.85   | 822.71  |
|                        | Total                         | 66,091.52                            | -                              | 1,524.84                       |                                    | 67,616.36                      | 32,846.46                            | 2,400.28                              | 80.51   | 2,480.79                     | -                             | 35,327.25                       | 32,289.11  | 33,245.06   |

## SIGNIFICANT ACCOUNTING POLICIES AND NOTES TO ACCOUNTS FORMING PART OF THE FINANCIAL STATEMENTS FOR THE YEAR ENDED MARCH 31, 2016

#### 1. Background

Puducherry Electricity Department (PED) is a part of the Government of Puducherry. It is responsible for distribution and supply of electricity in Puducherry, Karaikkal, Mahe and Yanam regions of the Union Territory of Puducherry. PED is governed by the Electricity Act 2003, as a deemed licensee.

After the enactment of The Electricity Act 2003, it is mandatory for all electricity utilities to file their Annual Revenue Requirement and Tariff Proposal in the form of a petition before the respective State Electricity Regulatory Commission. The Commission after hearing all the stake holders, issues an appropriate order on the ARR and Tariff Proposal. The Department had filed its first proposal for tariff fixation /revision for the year 2009-10 and a Tariff Order was passed in February 2010.

Being a Government Department, the PED maintained its books of accounts as per the Government system of accounting, which essentially is cash based and to some extent a partial system of single and double entry accounting. In other words, as typical to any other entity that maintains its accounts based on a commercial accounting system, the PED did not prepare its Profit & Loss Account, Balance Sheet and Cash Flow Statement at the end of the year. Further since there was no concept of Balance Sheet, the fixed assets were not capitalized and fixed assets records were not kept in the manner required as in the case of any commercial organization.

In the Tariff Order which was passed in February 2010, the JERC had given a directive to the PED that it must prepare separate Financial Statements and get the same audited. The Department was directed to prepare Accounting Statements which includes Balance Sheet, Profit and Loss Account, Cash Flow Statement, Auditor's Report, etc., together with notes and such other supporting statements and submit the same along with the next ARR and Tariff Petition.

To comply with the directive given by JERC, annual accounts under accrual basis were first prepared by the PED for the financial year 2009-10 followed by 2010-11. The said annual accounts for these two years are accompanied by a detailed methodology on how the opening balance sheet was prepared as on 31<sup>st</sup> March 2009. The accrual based accounts were accompanied with a detailed asset register and depreciation register. These registers were prepared based on physical verification of the assets and ascertained their current condition and use.

PED continues to be a department of the Government of Puducherry and therefore need to continue to maintain its base books of accounts as per the Government system of accounting. This would continue to be the case, till such time the PED is corporatized into a separate entity under the Companies Act 2013. Therefore, the Financial Statements attached as a part of this ARR petition have been prepared solely for the purposes of complying with the JERC's directives and must be read and interpreted in that context.

The paragraphs below outline the methodology adopted for the preparation of the Financial Statements. As indicated above, the base records continue to be the cash based Government system of accounting and books of account maintained therein. Necessary adjustments have been carried out to the base amounts indicated in the Government system of accounts to arrive at the Profit and Loss Account, Balance Sheet and Cash Flow Statement for the financial year 2016-17. These will continue to be done till such time the corporatization of the PED is carried out. At that point of time, the corporatized entity will migrate to maintain its basic books of accounts also on accrual basis.

#### 2. Basis of the Financial Statements

The Department prepares its annual receipts and expenditure statement on cash basis, which is audited by the state unit of the Comptroller and Auditor General. These audited amounts are compiled across all departments by the Department of Treasury, Government of Puducherry and the Audited State Annual Accounts of the Government of Puducherry are prepared and published. On its part, the Electricity Department reconciles its annual receipts and expenditure statements (called as financial progress statements) with the Department of Treasury. Since the published Audited State Annual Accounts are prepared for the State as whole (taking all departments across the Government), some of the account heads and amounts pertaining to the Electricity Department are rolled up at a higher level. However the financial progress statements (duly reconciled with the Department of treasury) contain details of all the account heads used by the Electricity Department. Thus it may be noted that the detailed head wise amounts as per the financial progress statements (which are on cash basis) are duly reconciled with the Department of Treasury and form part of published Audited State Annual Accounts by the CAG of India.

The above duly reconciled figures on cash basis have formed the base documents for the compilation of the financial statements. The amounts reported in these financial progress statements are adjusted to reflect the accrual basis of accounting and other adjustments required for conforming to Generally Accepted Accounting Principles have been made based on a detailed review and scrutiny of the cash based accounts by the PED.

The annual accounts have been prepared under accrual basis and Financial Statements have been prepared taking the format as used by PED in the previous year. It may be noted that the PED is not a company incorporated under the Companies Act 1956 / Companies Act 2013, and therefore is not necessarily required to adopt the new Schedule VI format.

It may be noted that for the financial year 2016-17, the State Accounts were not published till the date of preparation of these accrual based financial statements of the PED. Hence, differences (if any) between the State Accounts and these accrual based financial statements will be considered as and when the State Accounts are available.

#### 3. Revenue Recognition

Revenue from sale of power is accounted on accrual basis. The sale of power is as per the tariff fixed by concerned authority. Revenue is accounted for on the basis of demand bills raised on the consumers of the Union Territory of Puducherry. Revenue for the year is also adjusted for the un-billed revenue of the previous year and current year on estimated basis. Revenue from sale of power is recognized net of sales tax/value added tax.

#### 4. Fixed Assets

All Fixed Assets are stated at cost less accumulated depreciation. The cost of fixed assets includes cost incurred/money spent in acquiring or installing or constructing fixed asset, and the salary cost of the employees who are deployed on the project / work.

Any addition to or improvement to the fixed asset that results in increasing the utility or useful life of the asset is capitalized and included in the cost of fixed asset.

Any Fixed Asset, which has been acquired free of cost or in respect of which no payment has been made, is recorded at NIL value. Cost of land improvements such as leveling, filling or any other developmental activity is capitalized as a part of the cost of building.

Transmission network assets (Sub Stations and transmission lines) and Distribution network assets are capitalized in the year of commissioning.. Storage charges at 2.5% of material costs and supervision charges at 17% of total costs are capitalized as overhead allocations.

Fixed Assets are eliminated from the financial statement, either on disposal or on retirement from active use or on becoming redundant. Generally, such assets are disposed of thereafter as per the policy of the department.

#### 5. Depreciation

The CERC has notified the rates of depreciation on fixed assets with effect from 01.04.2009 as per Notification No. L-7/145/160/2008-CERC dated 19.01.2009 and the same have been adopted by the department in calculating the depreciation on fixed assets.

| 3.34%  |
|--------|
| 5.28%  |
| 5.28%  |
| 6.33%  |
| 15.00% |
| 9.50%  |
| 6.33%  |
|        |

Depreciation is calculated annually at the above rates based on straight-line method on historical cost. After the residual value of the asset reaches 10% of the original cost, depreciation is not charged on this residual value.

#### 6. Capital Work in Progress

Materials issued to Capital Works in progress are valued at cost. Capital Work in Progress includes the stock of material received under Direct Debit to works as well as material at site and proportionate storage and supervision charges on the material issued for the works. The sub-station related assets are capitalized in the year of commissioning.

In case where CWIP work on a project spans multiple years, the development/ construction of an item of Fixed Asset is ongoing as on the end of the year. In such cases, the salary cost of the employees deployed in the Project / Work, if any, shall be added to the CWIP in the respective year in which such salary costs were incurred, and these shall be capitalized along with the item of Fixed Asset in the subsequent accounting period in which the item of Fixed Asset is fully developed / constructed and is available for use.

#### 7. Inventory

Inventories, stores and spares are valued at cost; which is determined based on Weighted Average. Inventories issued to the Sections under various Schemes / Work / Project are considered as consumed at the time of issue. The closing inventory as on year end with the sections is added back to the inventory by reversing the consumption.

#### 8. Salary Costs and Retirement Benefits

Salary and other cost (other than retirement benefits) are recognized on accrual basis. The retirement benefits other than Pension are recognized on 'Pay As You Go' basis. Pension payment is managed by the Government so the department does not account for the same in the accounts.

#### 9. Provision for Bad and Doubtful debts

No provision for bad and doubtful debts has been made in the accounts pending reconciliation of the sundry debtors is in progress. The management will decide on the policy for provisioning for bad and doubtful debts and accordingly give effect of the same in the accounts in the financial year in which the

process of reconciliation is done.

#### **10. Consumer Contribution**

Contribution received from consumers towards assets / works is disclosed as liabilities net of capital expenditure incurred till year end under Deposit Works. In case of completed works, the respective fixed assets created / acquired partly / wholly from consumer contribution, are accounted net of the consumer contribution.

#### **11. Power Purchase**

Power purchase costs are accounted based on the total number of units purchased during the year from the Power Generators allocated to PED by the Ministry of Power, Government of India. Apart from the power units purchased from Power Generators, Power Purchase Cost also includes transmission and wheeling charges paid to companies like Power Grid Corporation of India Ltd. and Karnataka Power Transmission Corporation Limited. The Power Purchase Cost is net of rebate received on account of advance and / or prompt payments made by the department.

All invoices, revision invoices, debit notes and credit notes received from Power Suppliers (i.e. Power Generating / Power Transmission / Power Wheeling Companies) are accounted in the financial year in which they are received by PED. Some of the invoices, revision invoices, debits notes and credit notes contain charges (or credit) pertaining to Power Purchased by the PED relate to prior years. This happens because of time lag between Power Purchase and orders passed by the respective regulatory commissions (governing the respective power suppliers) or due to the time lag between Power Purchase and refunds / liabilities arising to the power supplier on account of tax assessments, etc., which have to be recovered from the PED or refunded to the PED.

#### **12. Finance Lease**

Assets taken on finance lease are accounted for as fixed assets. Accordingly, the assets are accounted at the values certified by the developer. Lease payments are apportioned between finance charge and outstanding liability. Interest expense on the outstanding amount is recognized in the Profit and Loss account as period cost.

#### 13. Use of estimates

The preparation of financial statements requires the management of the department to make estimates and assumptions that affect the reported balance of assets and liabilities, revenues and expenses and disclosures relating to the contingent liabilities. The management believes that the estimates used in preparation of the financial statements are prudent and reasonable. Future results could differ from these estimates. Any revision to accounting estimates is recognized prospectively in the current and future periods. Examples of such estimates include unbilled revenue etc.

#### 14. Estimation of Bank Charges

Bank charges are accounted on payment basis.

#### **PART B: NOTES FORMING PART OF ACCOUNTS**

- (1) The cash-based Financial Progress Statement (duly reconciled with Department of Accounts and Treasury) forms the basis of preparation of financial statements. Appropriate adjustments are made to it for converting the cash-based statement to accrual based accounts. The adjustments include provision for outstanding liabilities, accruing of receivables, accounting for unbilled revenue, accounting for loans and advances, capitalization of expenditure etc.
- (2) Contingent Liabilities :
  - (a) Details of Unexpired Letters of Credit (L/Cs) are as follows :

| Name of the Generating Station  | Value of the L/C<br>As on 31.03.2017 | Expiry Date |
|---------------------------------|--------------------------------------|-------------|
| NPCIL MAPS                      | Rs. 0.91                             | 11-Oct-2017 |
| NPCIL Kaiga                     | Rs. 6.41                             | 09-Oct-2017 |
| PGCIL                           | Rs. 5.02                             | 06-Nov-2017 |
| NTPC                            | Rs. 35.35                            | 02-Jan-2018 |
| POSOCO                          | Rs. 0.17                             | 24-Jan-2018 |
| NLC                             | Rs. 20.16                            | 19-Jan-2018 |
| NTPC Tamil Nadu Energy Co. Ltd. | Rs. 4.82                             | 06-Nov-2017 |
| KKNPP                           | Rs. 10.08                            | 18-Jun-2017 |
| Total                           | Rs. 82.92 Crs                        |             |

(b) Contingent Liability Related to Power Purchased from Pondicherry Power Corporation Ltd. (PPCL):

During the year 2011-12, the Puducherry Power Corporation Ltd. (PPCL) has demanded a surcharge of Rs. 26.52 Crores for outstanding amount not paid to it by PED which is under dispute.

(c) Contingent Liability Related to Power Purchase from Tamil Nadu Electricity Board (TNEB): The dispute for power purchased before April 2009 and Late Payment Penalty charged by TNEB during 2011-12 is still unresolved and the matter is pending with the High Court. The estimated differential amounts, which would be outstanding as on the respective dates, if the revised tariff and penalty for late payment (as sought by the TNEB) is approved by the Hon'ble High Court are as follows

| Statement showing Contingent Liability related to Power Purchased | Rs. Crores | Rs. Crores |
|---|------------|------------|
| and Late Payment Penalty levied by TNEB                           |            |            |
| Contingent Liability as on 31.03.2016                             |            | 220.22     |
| Breakup : Contingent Liability relating to Power Purchased        | 216.10     |            |
| Contingent Liability relating to Late Payment Penalty             | 4.12       |            |
| Contingent Liability as on 31.03.2017                             |            | 220.22     |

(d) Contingent Liability relating to Surcharge levied by KPTCL & NLC

| Statement showing Contingent Liability related to Surcharge levied<br>by Suppliers but not considered by PED for Payment | Rs. Crores | Rs. Crores |
|--|------------|------------|
| Surcharge levied by KPTCL  | 0.02       |            |
| Surcharge levied by NLC-TPS I Expn   | 0.17       |            |
| Contingent Liability as on 31.03.2017  |            | 0.19       |

(e) Contingent Liability relating to pending electrocution cases pending

A total of 10 cases pertaining to electrocution are currently pending decision in Local Court and High Courts respectively. The total amount claimed is Rs. 1.60 Crores as on 31<sup>st</sup> March, 2017.

- (3) Power Purchase Cost
  - (a) Power Purchase invoices, revision invoices, debit and credit notes have been received from Power Suppliers (i.e. Power Generating, Transmission & Wheeling companies) in the financial year 2016-17 which include charges / credit pertaining to power purchased by the PED in prior financial years. These invoices were raised in the year 2016 – 2017 because of the orders passed by the respective regulatory commissions governing the respective Power Suppliers or due to the refunds / liabilities arising to the Power Suppliers on account of tax assessments, etc., which have to be recovered from (or credited to) the PED. The Power Suppliers from whom such invoices, revision invoices, debit and credit notes were received in 2016-17 are as follows:

| Value of Invoices/Debit Notes/Credit Notes received in Current Financial<br>Year but pertain to Power Purchased by the PED in Prior Financial Years |            |  |  |  |  |
|---|------------|--|--|--|--|
| Power Supplier  | Rs. Crores |  |  |  |  |
| NTPC  | 4.22       |  |  |  |  |
| NLC   | 0.07       |  |  |  |  |
| KAIGA   | 2.11       |  |  |  |  |
| MAPS  | 0.21       |  |  |  |  |
| TANGEDCO  | 1.08       |  |  |  |  |
| Kundamkulam   | 2.07       |  |  |  |  |
| Total   | 9.76       |  |  |  |  |

The above figure of Rs. 9.760 Crores, has been shown as an explanatory note on the face of Profit & Loss Account below the heading of "Purchase of Power".

(4) In the financial year 2002 – 2003, the Department had entered into a finance lease with the Power Grid Corporation of India Ltd. (PGCIL) for development of System Control Centre. The total amount incurred for the development of the center is Rs. 24.36 Crores, of which Rs. 23.07 Crores has been covered under the finance lease. The liability towards the finance lease transaction has been shown as a Secured Loan in the Financial Statement. During the year Payment towards Finance Lease liability is Rs. 1.67 Crores. (5) PED has received Rs 18.6 Crores under the R-APDRP (Restructured Accelerated Power Development Reforms Project) scheme. The scheme involves grant of loan from Government of India [through the nodal agency i.e. Power Finance Corporation (PFC)] to the Union Territory of Puducherry. Total tenure of the loan is 10 years (which includes a 3 year moratorium period).

During the year PED has made provision of interest @ 11.50% (as per Terms & Conditions prescribed by PFC) on the amount of Rs. 18.6 Crores (as on opening of accounts), which comes to Rs. 2.13 Crores for 16-17.

PED has received Rs. 16.5 Crores under Part B of the R-APDRP (Restructured Accelerated Power Development Reforms Project) scheme. The amount was received on 31<sup>st</sup> March 2017 and has not been utilized. The same has been shown in the accounts as Loan received from PFC for R-APDRP Part B.

- (6) PED has received Rs. 1.2 Crores under the Deen Dayal Upadhyaya Gram Jothi Yojana (DDUGJY) scheme aimed at providing reliable and quality power supply to all villages and reduction of line losses. The amount was received on 31<sup>st</sup> March 2017 and has not been utilized.
- (7) PED has received Rs. 4.4 Crore under the SMARTGRID Pilot Project from the Government of India, Ministry of Power. The amount was received on 27<sup>th</sup> January 2017 and has not been utilized.
- (8) Investment in Puducherry Power Corporation Limited, a power generating company, is in the name of the Government of India; however the related shares are in the custody of PED. PED acts as the custodian of the shares. Hence, these shares are not considered as an investment of the PED.
- (9) Consumers provide security deposits either in the form of cash or FDR or Bank Guarantee. From 12-13 onwards, as per JERC's direction PED has opened a separate head of account for SD/ASD/MSD collected from Consumers under 8336 – Civil Deposits -101 – Security Deposits on which interest will be provided to consumers as per JERC directions.

As per the directives issued by JERC in its Tariff Order dated 16th June 2012, PED is required to pay / provide interest on the deposits taken from the consumers. Accordingly as per Tariff Order issued by JERC, PED has made provision for the interest of Rs. 14.42 Crores in the accounts during the year 2016-17. The department is in the process of reconciling the deposit account to ascertain the actual liability toward the security deposit and the further provision will be made once the liability is determined.

The Department has made an interest payment of Rs. 3.50 Crores during the year 2016-17 towards interest payable on deposits taken from consumers. The same has been accordingly adjusted from the figure of interest payable on consumer deposits.

(10)Value Added Tax (sales tax) on sale of power became applicable to PED with effect from 7<sup>th</sup> November 2009. PED charges the tax on sale of power to the various consumers as per the provision of the relevant act and pays it to the commercial tax department accordingly. The PED recognizes the sales tax liability in the accounts on collection basis and pays to the commercial department within seven days of the next month. The amount which is collected from the consumers and not paid to the Commercial Tax department is shown as a Liability in the Balance Sheet. This approach to accounting for Value Added Tax has been taken on collection rather than

on demand due to the constraints in the existing billing system in the Department. Once the issue is addressed, the Department shall modify its approach to accounting for VAT based on billing.

(11) The amount shown under Sundry Debtors is subject to reconciliation.

The Sundry Debtors outstanding are calculated based on the following formula: Opening Balance + Billing for the Year – Collection during the Year. For the year ending 31st March, 2016, the balance of Sundry Debtors in the Accounts is Rs. 702.99 Crores. According to the information available in the billing system of the Department, the amount of Sundry Debtors is Rs. 307.99 Crores. Hence there is an un-reconciled difference of Rs. 395.00 Crores as on 31.3.2017 between the arrears details available within the billing system of the department and balance as per the above method.

(12) The amount shown under Inventory is subject to reconciliation.

The closing balance of inventory is calculated based on the following formula: Opening Balance + Purchase for the Year – Inventory utilized during the Year. For the year ending 31st March, 2017, the balance of Inventory in the Accounts is Rs. 46.61 Crores. According to the information available from the Stores System in PED, the value of Inventory is Rs. 17.51 Crores. Hence there is an un-reconciled difference of Rs. 29.10 Crores as on 31.3.2017 between the Inventory figure in the details available within the Stores System of the department and balance as per the above method.

- (13)Sale of Power:
  - (a) The sale of power for the year includes Rs. 75.16 Crores as Un-billed revenue (previous year Rs. 76.27 Crores) and same is debited in Un-Billed Debtors account in Balance Sheet. EDP has not claimed FPPCA charges during the year, including any Government subsidy on that account. Incentive and penal charges are shown as reduction from income.

As a consequence of excess power available within the region of Puducherry, TNEB has been drawing power from the Electricity Department, Puducherry during the year 2016-17. The total power drawn is 16.15 Mus (previous year 24 MUs), and the equivalent amount to be recovered as Sale of Power is Rs. 5.60 Crores (previous year Rs. 8.95 Crores). However, bills have not been raised for the same, and hence the amount is shown as Un-billed revenue (included in (a) above) in order to show a true and fair view of the revenue of PED. The Un-billed revenue shall be adjusted in the year 2017-18 when the bills are raised.

- (14)Revenue from other services related to sale of power:- EDP have earned several new revenue streams related to power distribution. Therefore a new schedule has been provided for better presentation and clarity of financial statements. The revenue from other services related to sale of power include:-
  - (a) Revenue from UI charges for the year 2016-17 is Rs. 10.32 Crores (previous year Rs. 1.77 Crores). UI income previously grouped under sale of power has been showed under this section for better presentation.
  - (b) PED earned income from open access charges amounting to Rs. 8.46 Crores
  - (c) PED earned income from URS amounting to Rs. 1.99 Crores
  - (d) PED earned income from RARS amounting to Rs. 0.14 Crores

(15)The expenditure capitalized and not charged to the Profit and Loss account are as follows:

- Salary Expenses: Rs. 14.92 Crores (previous year Rs. 14.26 Crores)
- (16)Total interest expense for the year on the lease transaction is Rs. 0.32 Crores (Rs. 0.45 Crores previous year). PED has also received Rs. 0.04 Crores (Rs. 0.04 Crores previous year) as rebate for early / prompt payment of Outstanding Loan on account of Finance Lease.
- (17)While computing interest due towards the Department towards Interest on Term Deposits, the bank erroneously deducted Rs. 3, 85, 904 as TDS on the interest due to the Department. Being an arm of the Government, the Department it is not liable for TDS. The same has been shown as TDS recoverable from the Income Tax authorities.
- (18) In accordance with Government of India Order and in case of certain capital expenditure which have been identified by the Department as having Employee Cost attached to it, the CWIP account is debited with 17% towards salaries and wages.
- (19)During previous years, salary cost pertaining to capital works related to transmission for PED as identified by the Department has been capitalized given the huge expenditure made by PED for transmission projects. In continuation of this accounting policy in 2016-17, Salary cost amounting to Rs. 12.40 Crores has been capitalized by PED for the upcoming Karaikkal sub station for which major costs were undertaken in 2016-17
- (20)Advance paid to PGCIL on 31<sup>st</sup> March 2017 for upcoming Karaikkal sub station has been shown as Capital Advance.
- (21)While the accounts prepared by PED is on accrual basis based on generally accepted accounting principles, the accounts prepared by the Department of Treasury, Government of Puducherry is on cash basis. Therefore the balance of the Government Fund in the accounts of PED and the balance of PED in the accounts prepared by the Department of Treasury, Government of Puducherry are not reconciled due to the difference in basis of accounting (accrual/cash basis).
- (22) Internal Audit report

PED has appointed an Internal Audit team from the year 2016-17. Internal Audit Reports have been issued for up to Quarter 3 of 2016-17. The PED management is in the process of reviewing and responding to the audit observations and therefore no adjustments have been made to the accounts for the year 2016-17 for the audit observations pending review by the management.

# Annexure III: COMMUNICATION FROM TANGEDCO REGARDING CLAIM OF ARREARS

e-mail without prejudice

TANGEDCO (ACCOUNTS BRANCH)

From

То

K.Malarvizhi, B.A(Cropo),ACA.,PGDHRM Chief Financial Controller/Revenue, 7<sup>th</sup> Floor, NPKRR Malaligai, 144,Anna Salai, Chennai- 600 002.

The Superintending Engineer-L Electricity Department, Govt. of Puducherry, Puducherry.

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SUPERINTENDING ENGINEERIN ELECTRICIT: DEPARTMENT

Current No:

Date....

Publicht

Lr.No.CFC/REV/FC/REV/DFC/R.1/F.Pondicherry/D.757/2017, dt. 10.11.20

Sir,

- Sub: Electricity - Hon'ble CERC order dated 20.03.2017 Rrevision of CC charges for energy supplied by TANGEDCO to Puducherry Electricity Department Due to revision of lignite price variation for NLC TS1 power supply for FY 2014-19 Reg.
- Ref: 1. Hon'ble CERC order dated 26.09.2016.
  - 2. Lr.No.CFC/FC/R/D.No.133/2017 dated 16.02.2017.
  - 4. Hon'ble CERC order dated 20.03.2017.

#### \*\*\*\*

It is informed that based on the Hon'ble CERC order ref (1) cited, the rate chargeable for the energy supplied to Puducherry Electricity Dept. for the period April'14 to March'18 was communicated vide reference (2) cited. However, the rates chargeable based on NLC's bill is varying according to the actual GCV of the lignite. Hence, the difference in the rate due to the above is now payable by the Puducherry Elecy. Dept.

2.0) Further, the Hon'ble CERC vide reference (3) cited has approved the revision of rates to NLC TS1 due to lignite price revision, with effect from 01.04.2014 onwards. Accordingly, NLC has raised demand for the arrears of lignite price revision w.e.f. Apr'14 to Feb'17 and also claiming power purchase bills at revised rate since March'17.

3.0) TANGEDCO has not accepted the revision and appeal has been filed before Hon'ble APTEL. The arrear amount for the period Apr'14 to Feb'17 has not been paid. However, the revised rate since March'17 is being paid by TANGEDCO.

4.0) Since, the NLC TS1 rate has been revised and TANGEDCO has made payment based on claim of NLC on actual GCV basis and is also making payment as per revised rate from March'2017, the CC charges to be charged from

Puducherry Elecy. Dept. is revised based on NLC TS 1 rate + 10 paise per unit as wheeling charges as per Hon'ble High Court order dt.17.6.2008. The existing and

| Year    | Existing Rate (Rs.) | Revised Rate                         |
|---------|---------------------|--------------------------------------|
| 2014-15 | 3.38+0.10 = 3.48    | (Rs.)                                |
| 2015-16 | 3.42+0.10 = 3.52    | 3.59+0.10 = 3.69<br>3.75+0.10 = 3.85 |
| 2016-17 | 3.47+0.10 = 3.57    | 4.42+0.10 = 4.52                     |
| 2017-18 | 3.52+0.10 = 3.62    | $5.37 \pm 0.10 = 5.47$               |

Further, based on the outcome of the appeal pending before the Hon'ble APTEL, the CC charges to Puducherry Elecy. Dept., if any, will be revised later.

5. Hence, you are requested to honour the arrear bill from April'14 at the above revised rates and future bills as above without prejudice.

Chief Financial Controller/Revenue

Copy to the SE/EDC/Villupuram/TANGEDCO – for necessary action. Copy to the SE/EDC/Thiruvarur/TANGEDCO - for necessary action.

The Bills may be prepared for the units sold including 4% Transmission loss.

Copy to Mr.V.Viswanathan, TANGEDCO's Standing Counsel, Madras High Court. Copy to Thiru C.Manishankar, AAG-IV/High Court of Madras

Copy to the CE/IT - with a request to update the rate in HT Billing software.

Copy to Chief Engineer/Villupuram Region/Villupuram.

Copy to Chief Engineer/Trichy Region/Trichy.

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Copy to the Director (Distribution)/TANGEDCO, for kind information, please. Copy to EA to CMD/TANGEDCO.

#### Initial Brief for Petition from M/S Puducherry Power Corporation Ltd (PPCL) Petition Dated21.4.2017 Brief before admission of the Petition

**Subject**: Tariff for the FY 2018-19; and Revision of Tariff after the True up for the earlier year 2015-16

**Petitioner :**Puducherry Power Corporation Ltd. (PPCL ); Petition Filed under Section 62 & 83(4)

# A. Prayer of the PPCL for the FY 2018-19

- Tariff Approval for the FY 2018-19, considering the fixed cost as Rs.30.12 Crs / Annum, Gross Heat Rate of 2646 Kcal / kwh and Auxiliary Power Consumption of 6%.
- To Allow Normative Annual Plant Load Factor of 78% (instead of 85%) due to 30 days likely shut down for replacement of Gas Turbine Compressor stator and Rotor Blades along with a major overhaul of the Gas Turbine.
- iii. To Allow Capital Cost 11.769 Crs for replacing the Gas Turbine Rotor.
- iv. To Allow the recovery of fees for filing the Petition and publication expenses from Puducherry Electricity Deptt.

# B. True up for the FY 2015-16

- i) Carry out the truing up exercise and revise the tariff of Karaikal Power Station for FY 2015-2016.
- ii) Allow the petitioner to provisionally charge tariff as per this petition till the time the petition is disposed of and after approval of the revised tariff all retrorespective adjustments.
- iii) Allow a sum of Rs. 48.06 thousand towards replacement of damaged/corroded pipe rack structure.
- iv) Allow a sum of Rs 5.31 Crores towards procurement of Hot Gas Path Inspection spares.
- v) Allow a sum of Rs. 1.03 crores towards Hot Gas path Inspection Charges.
- vi) Allow the additional expenditure of Rs 0.22 crores incurred towards insurance premium.
- **C.** The Tariff parameters for the FY 2018-19 are compared with the order of the FY 2017-18 as under:

| SI | Parameter                  | Commission's<br>Approval as<br>per Tariff<br>Order for the<br>FY 2017-18 | Petition for<br>the FY 2018-<br>19 now<br>submitted | Remarks   |
|----|----------------------------|--|---|---|
| 1. | Gross<br>Generation<br>MUs | 242.000  | 222.060   | 30 days breakdown due to Steam Turbine Gear tooth crack |

| SI | Parameter                      | Commission's<br>Approval as<br>per Tariff<br>Order for the<br>FY 2017-18 | Petition for<br>the FY 2018-<br>19 now<br>submitted | Remarks                  |
|----|--------------------------------|--|---|--------------------------|
| 2. | Aux. Power<br>Consumption      | 5%   | <mark>6%</mark>                                     |                          |
| 3. | Net Generation<br>MUs          | 229.900  | 208.736   |                          |
| 4. | Capacity<br>Charge Rs<br>Crs.  | 23.36  | 30.12   |                          |
| 5. | Return on<br>Equity Rs Crs     | 70.20  | 110.46  | RoE @23.481% (Grossed up |
| 6. | Cost of Gas Rs<br>Crs          | 4.11   | 3.65  |                          |
| 7. | Variable<br>Charges Rs/<br>kwh | 2.143  | 2.101   |                          |

**D. True UP for the FY 2015-16** .The Commission's approval for FY 2015-16 of various parameters and the True up Petition now received is as under:

| SI | Parameter                      | Commission's<br>Approval as<br>per Tariff<br>Order for the<br>FY 2015-16 | True up<br>Petition now<br>submitted | Remarks  |
|----|--------------------------------|--|--------------------------------------|--|
| 1. | Gross<br>Generation<br>(MUs)   | 242.660  | 227.01                               |  |
| 2. | Aux. Power<br>Consumption      | 5%   | <mark>5.5%</mark>                    | The Petitioner has always been requesting for APC to be @6%, including the Petition for the FY 2018-19 |
| 3. | Net Generation<br>MUs          | 230.527  | 214.524                              | 30 days breakdown as indicated above   |
|    |                                | 11.60  | 21.11                                | Gas Turbine Hot Gas Path Spares  |
| 4. | O&M Rs Crs                     |  | 1.78                                 | Corroded Structure / Pipeline  |
| 4. | Uaivi RS CIS                   |  | 2.296                                | Pipe line Gas Structure  |
|    |                                | 3.92   | 4.47                                 | RO Plant   |
| 5. | Total Variable Cost Rs. Crs.   | 65.21  | <mark>69.506</mark>                  | Cost of Fuel   |
| 6. | Variable<br>Charges Rs/<br>kwh | 2.829  | <mark>3.24</mark>                    |  |

Submitted pl.

YP Chawla Advisor

Secretary